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**The Mississippian archaeological record on the Malden Plain,
southeast Missouri: Local variability in evolutionary perspective**

Teltser, Patrice, Ph.D.

University of Washington, 1988

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THE MISSISSIPPIAN ARCHAEOLOGICAL RECORD ON
THE MALDEN PLAIN, SOUTHEAST MISSOURI:
LOCAL VARIABILITY IN EVOLUTIONARY PERSPECTIVE

By

Patrice Amy Teltser

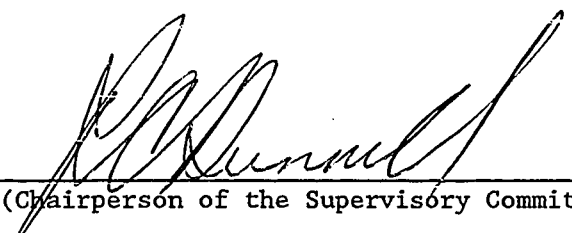
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University of Washington

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Abstract

THE MISSISSIPPIAN ARCHAEOLOGICAL RECORD ON
THE MALDEN PLAIN, SOUTHEAST MISSOURI:
LOCAL VARIABILITY IN EVOLUTIONARY PERSPECTIVE

by Patrice Teltser

Chairperson of the Supervisory Committee: Professor Robert C. Dunnell
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This is a study of Middle Mississippi expressions on the Malden Plain, Southeast Missouri. Middle Mississippi is recognized as a highly variable culture-historic unit of eastern North America during which late prehistoric populations reached their classic expression. In this research, the explanation of variability in the archaeological record is cast in an evolutionary framework. Evolutionary theory generates a model in which change is viewed as the differential persistence of alternative traits through time. This model has two important implications for examining archaeological materials and the kind of interpretive frameworks that must be built to do so. First, variation is placed in a causal role in that change arises from empirical variation to produce change. Second, evolutionary explanations account for functional traits. These implications are used to generate expectations for Mississippian assemblages from the Malden Plain. Models regarding chronology and settlement patterns that have been applied to adjacent regions of the Central Mississippi Valley and extrapolated to the Malden Plain are also evaluated.

The results of this analysis indicate that chronological trajectories can be expected to diverge from one local area to another, especially when functional variables are considered. Although stylistic sequences on the Malden Plain correspond generally to those developed for adjacent regions, there are important divergences which reflect the geographic isolation of this area.

This analysis also indicates that classic Mississippian settlement pattern models do not account for the full range of variation, at least

for the Malden Plain. Here, settlement configuration is seen as a response to local scale factors that are not accommodated by these models. Furthermore, inferences regarding regional integration and differential site function on the basis of sizes of population aggregates, nucleation, and mounds should be reconsidered. These features of Mississippian settlement patterns appear to have been components within a more flexible systemic context.

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Chapter 1

INTRODUCTION

Throughout much of the eastern United States, the late prehistoric archaeological record is dominated by what is commonly referred to as Mississippian. This archaeological record has been a source of fascination to Europeans for over 100 years and has played a significant role in the development of American archaeology. Currently recognized as the most culturally complex groups north of Mexico, prehistoric Mississippian populations had developed a specialized subsistence system based on agriculture, and were beginning to organize themselves into increasingly complex social units at the time of European contact.

Archaeologists have proclaimed a renewed interest in the explanation of cultural evolution. Commensurate with this interest, much more variation is recognized among Mississippian populations than was once the case. To be sure, the history of Mississippian studies bears out that, as an archaeological unit, it has always been conceived as a large scale cultural unit including a wide range of variation and encompassing more than a single geographic region. Yet incorporating this variability into interpretive frameworks has been problematic. Particularly evident is the failure of existing frameworks to sustain the burden of current archaeological questions regarding cultural change and variability. This failure has created a discrepancy between the explicitly stated goals of archaeological research, to explain culture change, and the results of those efforts.

In recognizing greater variability among Mississippian populations, approaches to explaining cultural variation and change have shifted. At one point, it was generally thought that this variability could be explained in terms of expansion of a cultural system or group of people emanating from a particular core area (cf. Smith 1984). The search for a Mississippian heartland or core area led only to recognition of a far more complex situation. Consequently, research directions and strategies have shifted.

An explanation of Mississippian development cannot be reached by searching for a geographical center of initial development. It will be reached only by unraveling a complex developmental process that involved a number of interacting regions covering a wide geographical area. It is not a simple research problem, and it will not be soon in coming. An obvious first step involves documenting regional evolutionary sequences over a wide geographical area. Once we have attained a reasonable understanding of different cultural systems in different regions at different points in time, we can then attempt to analyze the nature of the interaction and influence that existed between different areas. At the present time our knowledge of different regional Mississippian developmental sequences is at best sketchy. . . (Smith 1984:20, emphasis in original).

Until recently, archaeologists have focused on identifying broad patterns and historical trends to lay the foundation for more specific archaeological questions. Without such large scale frameworks, questions we now ask of the archaeological record would be impossible to even generate. However, in turning our attention to questions of cultural processes and change, it has become evident that the frameworks generated by large scale questions do not incorporate the variation now recognized as relevant to current archaeological questions. As the nature of research problems change, interpretive frameworks must be revised accordingly.

In the theoretical frameworks guiding past archaeological studies, such cultural units as foci, periods, and phases were created to measure the basic dimensions of the archaeological record: space, time and content (Spaulding 1960; Willey and Phillips 1958). These entities have been extensionally defined by determining a set of diagnostic types or horizon styles possessed by all assemblages intuitively regarded as members. Boundaries in space and time were determined and, once established, the resulting units could be treated as internally homogeneous entities. This kind of treatment imposes a particular structure on our understanding of prehistory with far reaching implications. Cultural variation and change, the very targets of most archaeological studies, are suppressed and reduced to differences between units in space or time (Dunnell 1982a; Plog 1974). If, as Smith argues, the problem of Mississippian development is one of

understanding specific evolutionary sequences over a broad area, then it will be important to recognize that there is no single Mississippian system or entity. As Griffin states in a recent review:

While there may be enough regularities to allow the concept of Mississippian some acceptance, the many deviations in every societal area, in historical heritage, and in participation in common themes makes the concept of a single "system" in the Southeast unwise (Griffin 1985:60).

Perhaps implicit in Griffin's statement is the notion that there is no single *kind* of Mississippian entity or system. While there are regularities, as Griffin points out, to assume that the Mississippian archaeological record represents a single *kind* of system is antithetical to the recognition of the diversity among Mississippian populations.

Because our knowledge of specific evolutionary sequences is sketchy, it has been easier to treat all Mississippian archaeological materials as representative of a single kind of system. This has allowed us to take information from one area and extrapolate it to others. Extrapolation has enabled us to identify broad patterns and historical trends in order to construct a large scale framework based on the very real regularities that do exist.

Our understanding of the Malden Plain Mississippian archaeological record of southeast Missouri provides a case in point. Although the Central Mississippi Valley has been the focus of tremendous archaeological investigation, relatively little professional work has been conducted on the Malden Plain. The Malden Plain lies squarely within what has been called the Middle Mississippi area (Griffin 1967). In the context of large scale surveys and research programs (Williams 1954; Phillips 1970; Morse and Morse 1983), sites with diagnostic artifacts such as shell tempered pottery, platform mounds, small triangular projectile points, and "hoe chips" are identified as Mississippian. Yet, both the earliest (Phillips 1970; Phillips, Ford, and Griffin 1951; Williams 1954), and more recent work (Dunnell 1982b, 1983, 1985a; Dunnell and Feathers 1986; Klinger 1982; Morse and Morse 1980), indicate that the prehistory of the Malden Plain is somewhat

different from that which has been established for the Mississippi Valley proper. In the absence of more detailed information, the major cultural units and frameworks defined for the Mississippi Valley are, however, routinely applied to this area as an interpretive framework. On the one hand, this has created a false impression that far more is known than is actually the case. More detrimentally, it has obscured the area's individuality, subtly implying that it is irrelevant.

Another factor contributes to the problem of incorporating variation into our current interpretive frameworks. This is an historical factor that bears on the primary content of these frameworks, independent of the structural problems just noted. Most interpretive efforts have focused on chronological questions, and it is understandable that most archaeological units are primarily stylistic in definition and content. Stylistic attributes are useful in measuring spatial and temporal relationships among populations. In addressing developmental questions, stylistic units can be used to measure time, but the focus of attention must be on functional units.

In order to refine our understanding of local evolutionary sequences, I developed a research program to examine a portion of the Mississippian archaeological record on the Malden Plain of southeast Missouri. Particular emphasis is placed on the variation manifest by a local Mississippian expression. The large scale framework for Middle Mississippi populations is used as a guide against which the variation of specific functional parameters is documented.

Chapter Two includes a discussion of the concept of Mississippian in historical perspective and as a focus of this research. This chapter elaborates on the theoretical issues touched upon in this introduction by examining the structure and content of interpretive frameworks as they are currently applied to the Mississippian archaeological record. Exploring the history of Mississippian studies parallel with examining the structure and content of archaeological frameworks illuminates how and why explanatory approaches have shifted in the context of an empirical focus.

In the following chapter, the Malden Plain is described as a geographic and physiographic unit and as a source of the Mississippian archaeological record. This chapter includes a discussion of prior archaeological research on the Malden Plain and the manner in which the Mississippian record is currently understood.

In Chapter Four specific questions are followed by a discussion of the data required to address them. Questions about Malden Plain Mississippian chronology, settlement patterns, and artifact assemblages are considered. From these questions, the strategy for choosing the three sites examined in this research is elaborated as are the general tactics followed in the course of the fieldwork. Field strategy and tactics are discussed in Chapter Five.

The fieldwork results from each site are presented in Chapter Six. Based on the field observations, inferences are drawn regarding the character of the Mississippian settlement at each site. This chapter concludes with an evaluation of these data in light of the questions I have posed regarding Mississippian settlement pattern models.

Chronological issues are addressed in Chapter Seven. All sites for which relevant data exist are included in this discussion. After considering the kind of data available, appropriate methods are chosen to formulate a relative chronology of Malden Plain Mississippian artifact assemblages. These results are used to address the chronological questions outlined in Chapter Four.

In Chapter Eight, I incorporate a functional analysis of the artifact assemblages, and explore the manner in which functional variation is manifest in Mississippian artifact assemblages from the Malden Plain. I also evaluate some of the evolutionary claims that have been made on the basis of Mississippian artifacts. Finally, in Chapter Nine, I summarize the analyses presented here and present conclusions based on these observations.

Chapter 2

THE CONCEPT OF MISSISSIPPIAN AND A CONSIDERATION OF THEORETICAL FRAMEWORKS IN ARCHAEOLOGY

Archaeologists have invoked the term Mississippian as a label for archaeological materials in the eastern United States for over 100 years (Holmes 1886). The meaning and use of this term has undergone substantial change although current use retains many of its original elements. Thus, it is important to identify the materials I consider here and define the terms incorporated in this research. The history of the Mississippian construct, recently reviewed by Griffin (1985), is long and complex. Rather than parallel that treatment, my historical discussion emphasizes the scale at which Mississippian as a cultural unit has been conceived and the manner in which internal variation has been treated. Following the historical account, I discuss why the large scale frameworks currently employed for understanding the Mississippian record should be revised to accommodate a wider range of variation and reflect current research interests.

Definitions

Any set of definitions is considered a purely analytical construct, created for the problem addressed. The definition of Mississippian used here is a function of the large scale culture-historical framework applied to the southeast Missouri area. In this respect, Mississippian is a descriptive cultural unit defined on the basis of space, time, and cultural content.

I use the adjective Mississippian in reference to late prehistoric sedentary agricultural populations of the interior valleys of eastern North America (Griffin 1967, 1985). As noted earlier, Mississippian has always been recognized as a large scale cultural unit, encompassing a wide range of spatial and, more recently, temporal variation. Spatially, Mississippian is represented by six major regional manifestations (Figure 1): the Middle Mississippi, Plaquemine, Caddo,

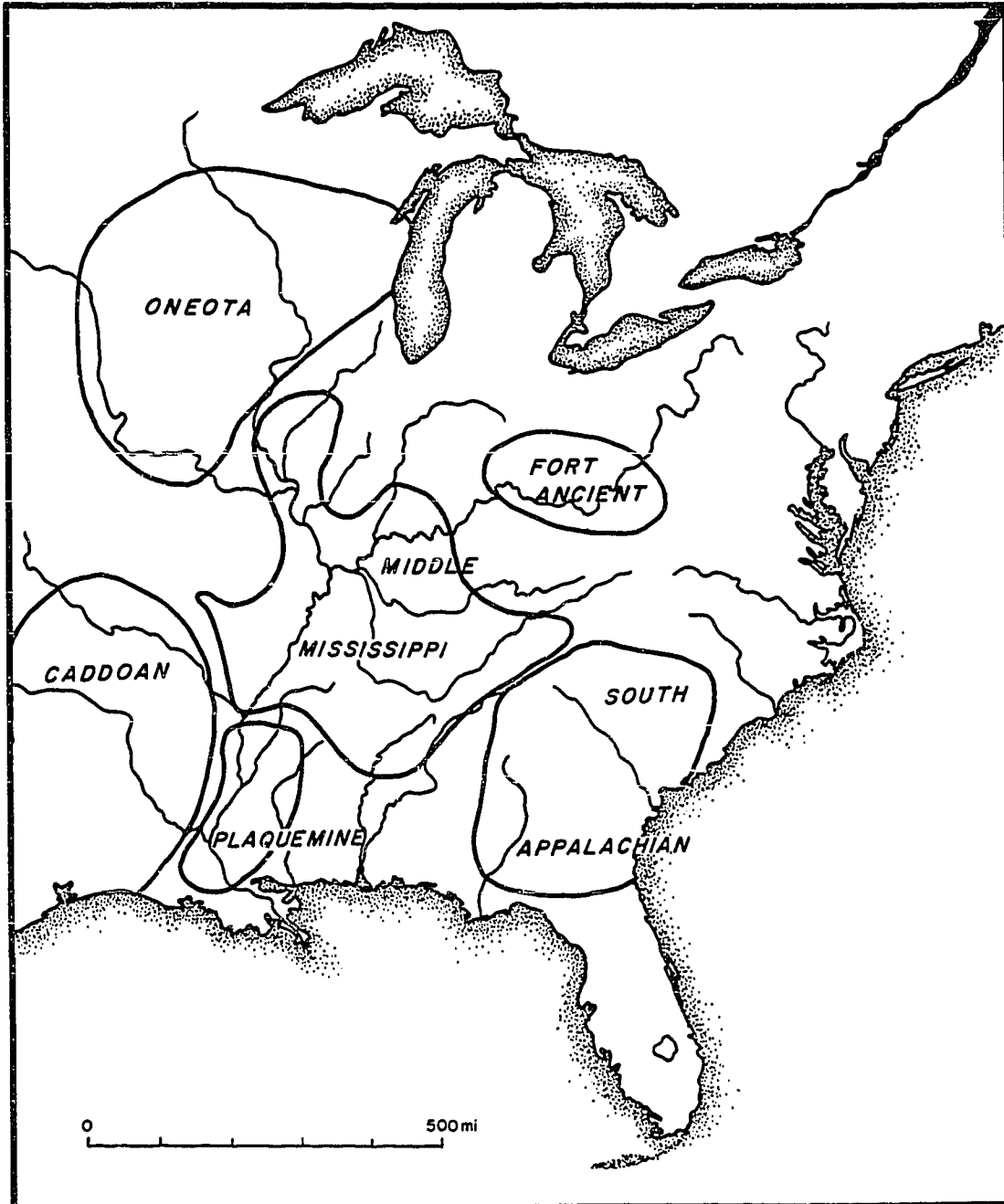


Figure 1: Regional Mississippian manifestations (after Griffin 1967; Coe, Snow and Benson 1987).

Oneota, Fort Ancient, and South Appalachian (Griffin 1967). Some archaeologists consider the only "true" Mississippian to be the Middle Mississippi region (cf. Price and Griffin 1979; Muller 1983). Whatever is or is not "true" Mississippian, the Malden Plain lies well within the region designated as Middle Mississippi, a region described as "the height of the southeastern Mississippi culture" where late prehistoric cultural florescence reached its "classic" expression (Griffin 1952b:362, see also Griffin 1967:189).

Mississippian also designates the time during which particular cultural traits appeared. In the Central Mississippi Valley, these cultural traits are recognizable in their earliest expression by A.D. 700 (Dunnell and Feathers 1986; Griffin 1967; Klinger 1982; Morse and Morse 1980, 1983). Currently, the Mississippi Period is divided into three sub-periods: The early (A.D. 700-1000), middle (A.D. 1000-1350) and late (A.D. 1350-1650) periods.

My research is limited to the middle and late periods of the Mississippian sequence during which time Mississippian traits reached their "classic" expression. Since original definition of Middle Mississippi was based on these "classic" expressions, the identification of relevant materials is made as unambiguous as possible. This is particularly important given that some researchers have questioned the "Mississippian" status of early period materials (Dunnell and Feathers 1986). Major features of the Middle Mississippi include large, often fortified settlements occurring primarily along the alluvial flood plains of major rivers, and the construction of pyramidal mounds. Ceramic industries reflect a functional distinction between mortuary and domestic wares, tempered with burnt crushed shell. Projectile points are small, and triangular in shape.

The title Middle Mississippi is used in reference to the cultural unit in a spatial sense. The term middle (lower case) Mississippi refers to the time period between A.D. 1000 and A.D. 1350 marked by the appearance of the "classic" Middle Mississippi features outlined above. The modifier Malden Plain Mississippian refers to that part of the archaeological record on the Malden Plain that is attributed to the

Mississippi period. It is identified on the basis of features that have been used to define Mississippian in general and Middle Mississippi more specifically.

The Concept of Mississippian in Historical Perspective

Archaeological efforts in the Mississippi Valley during the 19th century and the early 20th century focused on mound surveys and explorations. Facing a relatively undisturbed archaeological record, early European explorers could hardly fail to note the large earthwork complexes of the interior valleys of North America. It is a clear testimony to the scale and magnitude of this record that the first volume of the Smithsonian Contributions to Knowledge is the now-classic work by Squier and Davis (1848) entitled Ancient Monuments of the Mississippi Valley, and that beginning in 1882 the United States Government allocated annual funds specifically for the purpose of mound explorations (Thomas 1891, 1894).

The mounds invited significant speculation on the part of early European explorers and settlers. By the late 19th century, popular belief held that native American populations could not have been responsible for the earthworks. This sentiment arose largely because many of the native American groups first encountered by early Europeans had no knowledge of, or were no longer involved with mound building activities. This ignorance has now been explained by the substantial depopulation and cultural disruption resulting from the introduction of European infectious diseases and geographic displacement by encroaching European settlement (Willey and Sabloff 1974).

Indeed, the identity of the Mound Builders was the first major issue of American archaeology and was not resolved in favor of native American groups until Cyrus Thomas published the Report on the Mound Explorations of the Bureau of Ethnology (Thomas 1894). Thomas employed several surveyors to map and describe earthworks throughout the eastern United States. In some cases, excavations were conducted and the artifacts were sent to the National Museum. Many of the locations

documented by Thomas are now considered Mississippian only on the basis of his field descriptions. His work remains the only source of primary data for many sites that have since been partially or completely destroyed.

In addition to Thomas' efforts, mound explorations were conducted at many Mississippian localities. These efforts were initiated by several individuals, and sponsored by institutions other than the United States Federal Government. Several of the more noteworthy efforts include those of Thomas Beckwith (1887, 1911) at Beckwith's Fort (or Towosaghy); C. Croswell (1878) at Matthews, A.C. Conant (1878) at Sikeston; Potter (1880) and Evers (1880) at Sandy Woods, Sikeston, Matthews, Lilbourn, and East Lake; Frederick W. Putnam (1875) at Lilbourn; and G.C. Swallow (1858, 1875) at Lilbourn. C. Moore (1910, 1911) investigated unidentified settlements along the St. Francis and Black Rivers but did not return to the area, while Houck (1908) surveyed mound centers throughout southeast Missouri and was one of the few that extended efforts to the Malden Plain.

Thomas' mound study differed from most others not only in scope and purpose, but in his interest in identifying geographic regions based on the distribution of different mound types. Previous efforts made no apparent attempt to do this. He writes:

Notwithstanding the numerous volumes and articles which have been published, relating wholly or in part to the ancient remains and prehistoric times of North America, we search through their pages in vain for a chapter on the distribution of the different forms and types of the mound builders. We look in vain for any adequate reference to these types, or discussion of the evidence bearing on the question of ethnic or tribal distinctions. This important branch of our archaeology seems to have been entirely overlooked by these writers. This is probably due to the undeniable fact that the data relating to North American Archaeology are in a chaotic condition, no adequate system having been adopted or satisfactory arrangement proposed by which these may be so correlated as to lead to conclusions generally acceptable to antiquarians and ethnologists. For this reason considerable attention is devoted to this subject which, as can be readily seen, has an important bearing on the problems that arise in regard to these ancient monuments (Thomas 1894:521).

Thomas devoted a chapter to archaeological culture areas based on the geographic distribution of earthwork types. His terms were primarily geographic and Southeast Missouri was included within the Arkansas District. Although excavations were conducted at many locations, artifacts did not figure prominently into his groupings.

It was William H. Holmes (1886, 1903) who originally used the term Middle Mississippi in the context of his study of eastern North American ceramics. He applied the term to a region within which he identified a coherent set of ceramic assemblages and distinguished this region from the Upper Mississippi and Lower Mississippi (or Gulf Coast) areas:

The wares of [the Middle Mississippi] group extend over the greater part of the States of Missouri, Arkansas, and Tennessee, cover large portions of Mississippi, Kentucky, and Illinois, and reach somewhat into Iowa, Indiana, Alabama, Louisiana, and Texas. The types are better marked and the products more abundant about the center of this area, which may be defined roughly as including contiguous parts of Missouri, Arkansas, and Tennessee, with a pretty decided focal center, at least in the abundance of relics, at Pecan Point, Arkansas (1886:369).

Holmes' initial use of the term Middle Mississippi was primarily geographic. He did not maintain a distinction between the Lower and Middle Mississippi regions in his later works, but in the context of his overall work (see also Holmes 1903, 1914, 1919) he was clearly interested in defining culture areas. Indicating that Middle Mississippi pottery "was not made by one but many tribes, and even by several linguistic families", he regarded the province as "regional or environmental rather than tribal or national" (Holmes 1903:81). He argued explicitly that delineation of culture areas was purely an archaeological issue, and utilized the ethnographic record primarily to reconstruct manufacture techniques and identify pottery function. In regard to boundaries of the Middle Mississippi region, Holmes was equivocal (see Holmes 1886:369; 1903:21).

In his earlier works, Holmes largely confined his discussion to archaeological questions and descriptions. He was quite conservative

in ascribing additional cultural content to Middle Mississippi groups, and was careful to indicate that many specific tribes were represented in this grouping. He did specify that the Middle Mississippi groups were synonymous with the "moundbuilders" (1886:371). Indeed, his more comprehensive volume, entitled Aboriginal Pottery of the Eastern United States, was originally conceived as a companion to Thomas' publication on the mound explorations. Holmes also commented briefly on the level of cultural development of Middle Mississippi groups. In this respect, his basis of comparison was with much larger cultural developments in Mesoamerica and the Old World:

The simple life of these people is indicated by the absence of such ceramic forms as lamps, whistles, bricks, and tiles, and by the rare occurrence of other artifacts in common use with many barbaric nations (Holmes 1903:82).

However, in his later works, Holmes supplied Middle Mississippi groups with considerably more content than mere descriptions of artifacts:

The very extensive interior region, which comprises the middle and lower sections of the Mississippi Valley with much outlying territory, was the seat of a remarkable group of peoples, whose culture, all things considered, stands higher than that of any other characterization area north of middle Mexico. This culture was characterized by well-established sedentary life, extensive practice of agricultural pursuits, and construction of permanent works--domiciliary, religious, civic, defensive, and mortuary--of great magnitude and much diversity of form (Holmes 1919:105)

It was many years after Holmes wrote that the term Mississippian was once again applied as a label for specific archaeological materials (Griffin 1985).

Not until the use of the Midwestern Taxonomic System became common throughout the eastern United States was the term Mississippi utilized as a label for specific archaeological units. The Midwestern Taxonomic System (MTS), established in the early 1930s (Deuel 1935, 1937; McKern 1939) represented the results of a call for more systematic organization of Midwestern archaeological data in response to the chaotic state of archaeological systematics of the time. This

classificatory scheme was heavily influenced by the culture area distribution studies popular in anthropological circles of the 1920s and 1930s. However, proponents of the MTS were sensitive to the differences between archaeological and ethnographic data, recognizing that inferring cultural units using the direct historical approach was by and large inappropriate in the Midwest. They were equally sensitive to the reality that major chronological relationships in Midwestern archaeology had not yet been resolved. Consequently, the Midwestern Taxonomic System was constructed as a classificatory device based on "cultural factors" only, with no specific assumptions regarding chronological relationships (Deuel 1937; McKern 1939). In more modern parlance, it is a classificatory device based on phenetic similarity.

The structure of the MTS employs five basic units, which are hierarchically imposed and denote decreasing measures of similarity. The empirical unit upon which all units are established is the component, or archaeological assemblage which represents an occupation. Sets of similar components are grouped together into a focus. Likewise, a sets of similar foci are grouped into an aspect; aspects into phases, phases into patterns, and patterns into a single base.

"Mississippi" was defined at the level of a Pattern (Table 1). Many of the attributes implicitly ascribed to Mississippian in earlier writings (e.g., Holmes 1903) were given formal expression in the MTS. As originally defined, the Mississippi Pattern was comprised of three phases: Upper, Middle, and Lower. Definition of the Middle Mississippi Phase centered on Cahokia in the American Bottom and all materials south of that location were assigned to the Lower Mississippi Phase. The primary organizing principles of the MTS were the distribution of cultural traits and the measurement of unit similarity based on those traits. The MTS as a method was explicitly divorced from any implications regarding the spatial or temporal relationship between its units. Consequently, identification of specific spatial and temporal boundaries of those units was not an issue.

Eventually the Midwestern Taxonomic System came under harsh criticism (e.g., Taylor 1948). Its ultimate demise probably had less

Table 1: Summary of determinants for the Mississippi Pattern from Deuel (1935).

-
-
- I. House type
 - (1) Rectangular, semi-permanent
 - (2) Mounds primarily substructure, pyramidal

 - II. Burial customs and ceremonials
 - (1) Predominantly extended
 - (2) Simple interment in cemeteries
 - (3) Grave goods profuse
 - (4) Grave goods usually pottery, copper, and shell

 - III. Industries and art forms
 - (1) Pottery, shell, copper, bone most highly developed
 - (2) Stone
 - (a) Projectile points: simple small isosceles triangle from thin flat flake technique
 - (b) Discoidals common
 - (c) No grooved axes
 - (d) Grooved abrading and whetstones common
 - (e) Problematicals in polished stone very rare
 - (3) Articles of bone commonly occurring
 - (a) Fishhooks
 - (b) Awls from ulna of deer and tarso-metatarsus of wild turkey
 - (4) Textiles: evidence of woven material frequently found
 - (5) Pipes: clay pipes common, equal-armed. Massive effigy of stone in some phases
 - (6) Pottery
 - (a) Tempering predominantly shell
 - (b) Generally low but fairly well controlled firing temperatures
 - (c) Wide variety of shape and decorative technique
 - (d) Round to flat bases; flattened globular shape
 - (e) Handles, flanges, lugs and feet
 - (f) Effigy forms common
 - (g) Objects other than containers
-

to do with any criticisms *per se* than the emerging success of chronological methods such as stratigraphy, seriation and radiocarbon dating techniques. By necessity, the MTS was cast in a chronological void and as regional chronologies emerged, use of the MTS gave way to other culture historical frameworks (e.g., Willey and Phillips 1958).

The MTS was timely. It provided the basic interpretive framework for the explosion of archaeological work conducted throughout the eastern United States during the late 1930s and early 1940s under the Works Project Administration and related programs. The Midwestern Taxonomic System had lasting implications for the structure of subsequent culture historic frameworks. In particular, Adams relied on the MTS for his work in Southeast Missouri (Adams 1941; Adams and Magre 1939; Adams, et al. 1941; Adams and Walker 1942; Walker and Adams 1946). Interestingly, its application to the Central Mississippi Valley appears to have been otherwise limited. Lacking stratified deposits to establish archaeological sequences, this area was one of the first in eastern North America where culture historic methods, particularly seriation, were applied with substantial success (e.g., Phillips, Ford and Griffin 1951).

Griffin (1985) notes that Phillips' Ph.D. dissertation, completed in 1939, was a refinement of the Middle Mississippi Phase south of Cahokia. Although never published, it became the working document for the first Lower Mississippi Valley Survey, initiated in 1941 and published in 1951 (Phillips, Ford and Griffin 1951).

To what extent the first Lower Mississippi Valley Survey reflected the structure of the MTS is unclear but appears minimal, as it uses none of the terms of the MTS. Originally, the spatial/cultural units in the study were to be based on natural physiographic areas. Eventually, the cultural areas were defined by established seriation sequences. This study did not include Southeast Missouri, but its results have withstood the tests of further research and it has provided the basic interpretive and chronological framework for subsequent work throughout the Lower Mississippi Valley (e.g., Williams 1954; Phillips 1970).

While the MTS had limited application to the Central Mississippi Valley, it had a substantial impact on the structure of culture historic frameworks applied to the eastern United States and, hence, on the concept of Mississippian. Although the MTS made no assumptions about spatial, temporal or phylogenetic relationships among its units, the *kind* of traits serving as determinants for membership into units at different analytic levels within the classification was clear:

Our problem has also to deal with different types of culture, as different from each other as a broad basic type and a local specific type. The former is identified for the most part by traits that are in the nature of fundamental cultural trends. These fundamentals are quite different in character from the detailed material trait elements that are so important in determining highly specialized divisions. Thus, the character of a trait employed as a culture determinant will depend upon the type of cultural division for which it serves as a determinant. . . . That being the case, determinants for a base, or even a pattern, will be for the most part general in character and relatively few in number (McKern 1939:307).

Within the MTS, defining units at the larger analytic levels (e.g., patterns and phases) was accomplished using "fundamental trends". Defining units at lower analytic levels (e.g., foci or aspects) was accomplished using more "detailed material trait elements". Currently, this distinction is more rigorously recognized as one between function and style. Utilization of these kinds of traits was reflected in the results of its application--the cultural units that were ultimately created.

Consequently, units created under the MTS did have a reasonable degree of spatial and temporal integrity. This is especially true for units at lower analytic levels (e.g., foci and aspects) because primarily stylistic attributes were used to delineate them. Under these circumstances, the major operative assumption of culture historic methods--that similarity in form was a reflection of relatedness in space and time--did hold. Similarly, units created at higher taxonomic levels on the basis of more general traits (e.g., phases and patterns) had some degree of regional integrity at a much larger scale. The definition of Mississippi as a pattern, based largely on functional

traits, was not all that different from Holmes' original assessment that the grouping was regional or environmental rather than tribal or national (Holmes 1903:81).

The degree to which MTS units had spatial and temporal integrity is apparent in that many were easily incorporated into culture historic frameworks. In fact, the culture historic framework, given its clearest expression by Willey and Phillips (1958), merely gave spatial and temporal interpretation to many of the cultural units created by the MTS.

Foci, the lowest analytic units in the MTS became phases, and constitute the basic archaeological units for archaeological sequences at the local scale (Willey and Phillips 1958). Higher level units of the MTS (e.g., phases and patterns) were invoked to create units at larger spatial and temporal scales. Hence, the Mississippi and Woodland Patterns were translated into the Woodland and Mississippi Periods for eastern North America, at the scale of "area". It should be noted however, that Griffin had already operationalized these culture historic terms (Griffin 1952b).

The Mississippi Period was represented at lower scales (either by region or sub-area) by several regional expressions: Middle Mississippi, Caddo Mississippi, Plaquemine, Southern Appalachian, Oneota, and Fort Ancient (Griffin 1967). When faced with the dilemma of specifying a set of criteria or boundaries for the Mississippian Period, Willey and Phillips lamented that "Mississippi is probably the best known culture in the East, yet one looks in vain for an integration of its manifold phases and a description of the whole" (1958:165).

The translation of units from analytic level in the Midwestern Taxonomic System to temporal periods and spatial scales using culture historic methods, did not result in a one-to-one correspondence in all cases. The degree to which ceramics held a primary role as determinants in both frameworks is reflected by the confusion that persists in ascertaining the specific meanings and archaeological materials referred to by the label "Late Woodland". Late Woodland in

the Central Mississippi Valley is recognized by pre-Mississippian materials dating A.D. 450-750 (Morse and Morse 1983), while materials given this same label in the Upper Ohio Valley and eastern North America date anywhere from AD 450 through European contact. These units are contemporary with Mississippian but are designated Woodland because they lack many of the determinants of Mississippian, particularly shell tempered pottery. This has been partially resolved by referring to all post-A.D. 1000 materials as "Late Prehistoric", of which Mississippian and Late Woodland (in some places) are both part. The ambiguity which arises is recognized and has evolved into something of a "terminological debate" (Muller 1983) over what constitutes Mississippian and what does not. As Muller states,

The problem of defining *Mississippian*, unfortunately, is much more complex than deciding that it is predominantly a southeastern or Gulf Coastal Plain phenomenon. Some archaeologists tend to see all the Late Prehistoric societies of the Southeast as having been Mississippian to one degree or another. These scholars point to the widespread construction of substructure mounds and certain other technical features. . . . Others have tended to define the Mississippian complex, very narrowly, as a specific ceramic tradition characterized by particular vessel forms, such as the bottle and hooded effigy vessel. The first view stresses area unity; the second emphasizes local diversity. . . .

Most archaeologists seem to agree on what is generally known about Coles Creek. It seems fruitless, then, to expend much energy debating whether the complex should be called *Coles Creek Mississippian* or not. It is hard to see what important theoretical and practical issues are served by such discussion (1983:404-405, emphasis in original).

Muller's comments are well taken. In the following sections, I explore some of the theoretical reasons why defining Mississippian has been important, why it has been difficult, and why it is no longer an important issue. I argue that this issue is resolved itself not because the units within Mississippian have any more empirical integrity than Mississippian itself, but because the kind of explanatory frameworks archaeologists have begun to employ in exploring the archaeological record do not hinge on an assumption requiring that cultural units have empirical "reality".

The history of Mississippian as a concept is far more complex than outlined here and can be used to trace any number of themes in American archaeology. In this review, I have emphasized three factors. First, Mississippian has always been seen as a large scale cultural unit, encompassing a substantial range of cultural variation and covering something greater than a single region. Consequently, definitional criteria have always been "general" (McKern 1929), or functional. This is seen in Holmes' work with Mississippian pottery and the analytic level at which Mississippi was defined in the MTS. Subsequent definitions for Mississippian reflect similar emphasis. For example, Griffin uses the term in reference "to the wide variety of adaptations made by societies which developed a dependence upon agriculture for their basic storable food supply" (1967:189). Other definitions do not differ substantially (e.g., Caldwell 1958; R. Ford 1974; Griffin 1985; Morse and Morse 1983; Smith 1978b, 1985; Steponaitis 1986). Second, the Late Prehistoric-Late Woodland-Mississippian confusion reflects an emphasis on ceramics for defining these units. While in part a function of their utility as time markers, this emphasis may also reflect the original concept of the Mississippian provided by Holmes. Third, boundaries of the Mississippian when addressed or sought, have never been particularly clear and remain somewhat elusive.

Theoretical Frameworks

The ambiguities archaeologists confront in establishing definitional criteria and boundaries for archaeological units stem from attempts to impose what has been referred to as a space-like framework on a set of phenomena that would otherwise require what has been referred to as a time-like framework (Dunnell 1982a). By space-like, I refer to the metaphysical position which holds that the world is composed of discrete, naturally bounded entities or things, an ontological position based on essentialist or typological principles, as contrasted with a materialist perspective, or "population thinking" (Hull 1965, 1967; Mayr 1959; Sober 1980).

A space-like framework conforms to our every day perception of the empirical world as composed of discrete entities. Science conducted in a space-like framework operates on units whose relationships to one another are stipulated independently of space and time. Because these relationships hold independently of space and time, they are considered universally true. These relationships are referred to as "laws" and form the basis for the principle of uniformitarianism. Explanations within a space-like framework are functional in that they specify the articulation among units and how something works.

In a time-like framework, the structure of the world is not assumed to be composed of discrete entities. When viewed along a temporal dimension any single entity is always in the process of changing and cannot be limited by discrete boundaries. The relationships between units are a "contingent fact of history" (Gould 1985) and cannot be conceived as universally true laws. Explanations within a time-like framework are evolutionary, in that they address why something exists.

The different structures imparted to the world by essentialist and materialist perspectives have implications for the manner in which variation is perceived and explained. Mayr describes these differences as follows:

The assumptions of population thinking are diametrically opposed to those of the typologist. The populationist stresses the uniqueness of everything in the organic world. What is true for the human species--that no two individuals are alike--is equally true for all other species of animals and plants. Indeed, even the same individual changes continuously throughout its lifetime and when placed into different environments. All organisms and organic phenomena are composed of unique features and can be described collectively only in statistical terms. Individuals, or any kind of organic entities, form populations of which we can determine only the arithmetic mean and the statistics of variation. Averages are merely statistical abstractions; only the individuals of which the populations are composed have reality. The ultimate conclusions of the population thinker and of the typologist are precisely the opposite. For the typologist, the type (*eidos*) is real and the variation an illusion, while for the populationist the type (average) is an abstraction and only the variation is real.

No two ways of looking at nature could be more different.
(Mayr 1959:29)

In an essentialist framework, variation is accommodated in two ways. First, there are differences between things. These differences are recognized as variation in "kind". A given unit is internally homogeneous in that its members are of a single kind. The creation of units within this framework is characterized by the search for a set of attributes possessed by each member of a unit, attributes that are considered the essence of that unit (Sober 1980). Thus, a definition is explanatory in that it describes the essence of that unit, which in turn explains why it is what it is. Second, variation within a particular kind of entity is considered random, or "noise". This sort of variation is explained as the result of forces interfering with the expression of a particular ideal or prototype. Because homogeneity of kind has been established by definition, variation is expressed only in terms of degree, quantity or scale.

The role of variation within a materialist or populationist mode of thought is quite different. Rather than seeking a reality unaffected by empirical variation, reality is given structure by empirical variation. In this context, "kinds" of things are functions of space and time. Consequently, variation is cast in a causal role, rather than viewed as the result of interfering forces. As Hull (1965) points out, variation is the rule, rather than the exception.

Perceiving the world in a time-like framework where all phenomena are unique and constantly changing is rather counter-intuitive. A space-like framework is more comprehensible because it coincides with our common sense understanding of the world in which we operate (Dunnell 1982a).

The cultural units usually created by archaeologists to describe the archaeological record conform to the above description of essentialistic units. Imposing such a framework on the record has far reaching implications for the structure of prehistory as currently understood, on the manner in which variation can be incorporated within that structure, and for the kind of explanations that are ultimately

derived. These implications are discussed below and explain why archaeologists have turned to developmental or evolutionary approaches as a means to explain variation in the archaeological record.

Implications for the Structure of Archaeological Frameworks

The dimensions of archaeology are commonly recognized as space, time and content (Spaulding 1960; Willey and Phillips 1958). None of these dimensions are presented as natural and discrete entities, so archaeologists create units to describe the archaeological record. These units include foci, periods, phases, and even sites. They are believed to be, and treated as empirical units, and as such they are established by searching for "jointedness" in the archaeological record (Spaulding 1982). Spaulding is apparently referring to discrete boundaries. The specific tactics employed to establish boundaries may differ according to the scale at which a unit is created, but the basic strategy of discovering jointedness applies.

For example, archaeological "sites" are ordinarily identified on the basis of artifact density. Willey and Phillips regard this unit as the minimum operational unit of geographical space, and note that its physical limits are often impossible to fix (1958:18). However, fixing site limits is a problem only so long as the relevant archaeological record is believed to be located solely within these units, and only so long as they are perceived to be "natural" (i.e., empirical) units. Conversely, if one begins with the assumption that the archaeological record is a "continuous distribution of artifacts over the land surface with highly variable densities" (Dancey 1981; see also D. Thomas 1975), fixing site boundaries becomes an analytical decision, justified in the context of a specific archaeological problem rather than the discovery of an empirical entity.

Cultural units such as phases or periods are defined on the basis of distinctive attributes held in common by all assemblages assigned to those units. The constituents of a particular phase, for example, are examined to determine particular traits possessed by each component of

that phase. Horizon markers composed of distinctive pottery styles, projectile point styles, burial types, and settlement patterns are commonly used as attributes of a particular period or phase. This is not altogether different from the much maligned practice of generating extensive trait lists for foci, aspects, or phases within the context of the Midwestern Taxonomic System.

In defining units (e.g., sites or phases), tactics are employed to make analytic decisions. The units themselves are not observational but analytic units imposed on the archaeological record. They are "real" or "actually out there" only to the extent that they have members. The kind of structure they take on is a result of imposing a particular kind of order on the archaeological record. This kind of order conforms to our current understanding of the world, which is, as previously argued, seen from an essentialist's perspective.

Imposing an essentialist structure on the archaeological record has further implications for the explanation of cultural variation and change. As Dunnell (1982a) notes, the terms space-like and time-like are in some sense misnomers and slightly misleading. Both frameworks incorporate the spatial and temporal dimensions, but these dimensions are treated similarly within the context of each framework. In other words, in a space-like framework, time is treated the same way we normally treat space, while in a time-like framework both space and time are treated as continuous dimensions. Since perceiving time as a continuous dimension is contrary to an essentialist perspective,

sequential time must be suppressed. This is accomplished by periodization, which creates a set of internally homogeneous units that can be described, interpreted, and explained exactly as we describe, interpret and explain the world around us. Differences among such units are treated like differences among contemporaneous units; the only difference is terminological. Differences between units of various ages are called "change"; those between contemporaneous units are called "difference." In effect, all of the "change" is squeezed out, and must be assumed to be lodged in the lines that separate periods on time/space charts (Dunnell 1982a:13).

Imposing a space-like structure on the archaeological record has influenced and reinforced our notions on the nature of culture change. Since change is represented only in terms of differences between discrete units, we have come to rely on explanatory mechanisms that account for discrete and abrupt changes such as population replacement, migration, and even abandonment.

The evolutionary models we have come to rely upon to explain culture change are transformational and directed (e.g., Sahlins and Service 1960; Seagraves 1974; Flannery 1972). Recently, these views have been challenged in favor of a selectionist view of cultural change within a paradigm of scientific evolution (e.g., Dunnell 1980; Leonard and Jones 1987; Rindos 1980, 1984). At this point, our notions on the nature of cultural change are more an artifact of the frameworks that have been applied to the record. A better understanding of cultural change will not emerge if we continue to rely on descriptive frameworks that do not incorporate variation or change.

Once a set of spatial and temporal boundaries has been established, we have entities with spatial and temporal location, and uniform sets of attributes. The resulting units are treated as internally homogeneous because each has been defined as a single *kind* of thing. Internal variation is recognized only in terms of degree, quantity, or scale. As Sober (1980) points out, variability here is accounted for by interfering environmental forces acting upon the natural expression of a prototype. Interpretation of Mississippian settlement patterns provides a useful example of this explanatory framework.

Mississippian settlement systems are generally recognized as both complex and variable. They are recognized as complex in that the settlement pattern (the distribution of settlements across the landscape) is composed of several functionally different settlements within a single region. Functional differences are defined by size, number of mounds, presence of fortifications, and cemeteries. From this, it is inferred that the settlement systems (the settlements and relations between them) were hierarchic in structure, with the largest

mound center providing an integrating function for smaller satellite settlements. Mississippian settlement patterns are also recognized as variable in that they differ from one region to another. For example, both the Powers Phase (Price 1978) and the American Bottom (Fowler 1978) settlement patterns have been used as models for Mississippian settlement patterns in the Eastern Lowlands (Morse and Morse 1983). However, in comparing the settlement patterns outlined for the Powers Phase and American Bottom we see significant differences. Since the two systems are perceived to be identical in structure, variation from region to region can be accommodated only as variation in the scale or magnitude at which the system is manifest.

On the one hand, defining homogeneity in "kind" enables archaeologists to identify important historical patterns in the Mississippian archaeological record. On the other hand, it obscures variation in the very parameters that will enable an explanation of those patterns. Pottery styles, projectile point styles, burial types, or settlement patterns are no longer attributes of the archaeological record, but they are attributes of phases. In this role, all empirical variability of their own is obscured.

When homogeneity of kind is assumed, it is possible to use information from one area and apply it to all areas by extrapolation. This methodology may entail tolerable error for large scale descriptive frameworks but deviations can be expected when it is applied to specific cases. For example, in defining phases or periods using horizon styles, an assumption is made that a particular set of horizon styles appears in all places at the same time and has a uniform distribution throughout a given region.

The explanatory significance of essential traits in an essentialist framework accounts for the emphasis archaeologists have placed on specification of horizon styles, determinants, or other diagnostic attributes, and the definition of cultural units in general. This emphasis ignores the critical relationship linking any definition to a specific problem. If this were recognized, then cultural units would be seen as analytic constructs imposed on the record, rather than

as units with empirical reality. When cultural units are interpreted as empirical, definitional criteria are an issue. As Smith notes:

For anyone interested in coming to grips with this problem of initial Mississippian development, the obvious first step has been to establish temporal precedence. If only one could find the earliest pyramidal mound, or the earliest shell tempered jar, or the earliest occurrence of any of a number of other diagnostic traits of Mississippian material culture, the origin of Mississippian culture, the origin of Mississippian could be explained (1984:13).

And yet, definitions for cultural units have never been particularly straightforward. The problems defining Mississippian provide only a case in point, as they are not unique to Mississippian (cf. Teltser, in press, for a consideration of Fort Ancient). The recent literature gives more routine and explicit expression to the issue (Brain 1978; Griffin 1985; Muller 1983, 1986a; Smith 1978b, 1984, 1985) but the problem has long been recognized (Willey and Phillips 1958). The problem in defining Mississippian can then be seen as a failure to identify essential traits. One strategy in the search for essential attributes is the identification of a "core area", either spatially or temporally. This is, in fact, the direction implied by Willey and Phillips in their assessment of the problem:

The chief difficulty, perhaps, has been our inability to nucleate the culture geographically. This in turn is partly, if not wholly, due to the belief expressed above that the source of most of its diagnostic elements is Middle American and that we might find its nucleus in the Gulf coastal, lower Mississippi Valley, or Caddoan regions. (Willey and Phillips 1958:165).

In this context, the search for a Mississippian "heartland" can be seen in a new light. Rather than arising in the context of explicit evolutionary goals to explain Mississippian development, this research problem arose from attempts to explain variability in the record within a descriptive, space-like framework. Within such a framework, the identification of a core area did have explanatory significance amidst the diversity recognized. For once a core area had been identified,

variation could be explained by the "expansion" of a cultural system or group, either one of which could be measured against the prototype.

When it became evident that no such core area existed, and by implication that no essential attributes did either, the essentialist or space-like framework no longer appeared valid. Only after this was recognized were developmental questions invoked to explain variability in the record (e.g. Phillips, Ford, and Griffin 1951). Indeed, the explanation of cultural variability is best approached in an evolutionary context.

The failure to find a Mississippian heartland or a set of essential attributes indicates that the underlying structure of the archaeological record is not amenable to a space-like framework. This has been acknowledged. As Griffin notes,

although there were great differences in the natural habitats within this area, with marked changes in climate and major vegetation changes during the long period of American prehistory, there were no major physiographic or climatic barriers preventing a relatively rapid exchange of cultural innovations over most of the area. The most effective barriers, within the period of agricultural development, were the boreal forest zone on the north and the semi-arid plains on the west (Griffin 1967:175).

Griffin argues that eastern North American environments are variable but the underlying structure of that variation is clinal or continuous across the region. It does not present itself as abrupt differences between discrete units. The underlying nature of the archaeological record should reflect this accordingly, and there is every reason to assume that cultural forms (stylistic or functional) distribute themselves in similar fashion. Given this perspective, it is likely that discrete cultural boundaries will be more the exception than the rule, and their appearances become rather interesting archaeological problems. Similarly, the entity called Mississippian can be seen as a constellation of forms which became fixed among a wide range of populations throughout the eastern United States, and from this perspective, it is possible to generate a series of significant archaeological questions. It is possible to begin asking why some

forms became fixed within certain populations and other did not, and why some forms had much wider distributions than others. It is also possible to understand why a particular constellation of forms became fixed in such highly variable ways.

Implications for the Content of Archaeological Frameworks

In turning to evolutionary questions, functional information becomes relevant. In this context, function refers to those forms which affect the Darwinian fitness of the populations in which they occur, where form refers to any artificial attribute without specification of scale (Dunnell 1978:199). The concept of function in an evolutionary context is contrasted with the concept of style, where style is defined as those forms which have no detectable selective value. The distinction is important because it identifies information relevant for evolutionary explanations, and this in turn indicates the kind of archaeological units which must be created to describe the archaeological record for examination. This latter point, the kind of units that must be created, impinges on yet another issue regarding the interpretive frameworks we impose on the archaeological record. This issue has implications not for the structure of the record as discussed above, but on the content of units, and the kind of explanations that can ultimately be derived for them.

Archaeologists recognize the analytic utility of distinguishing style and function (Binford 1968; Dunnell 1978; Jelnick 1976; Sackett 1973, 1982). These concepts refer to different information, which are used for different purposes, and they are explained by different processes. Style is useful as it implies purely homologous similarity or genetic relatedness (Dunnell 1978; Jelnick 1976; Sackett 1982). Stylistic similarity is attributed to cultural transmission alone because it is independent of selective processes and constraints. The distribution of particular styles in time and space can be described by stochastic processes where the operative units consist of nonrepetitive classes. These classes have a generally predictable distribution

through time, and it is this set of properties that forms the basis of the seriation method (Figure 2). Because stylistic forms are purely homologous, the equation that similarity in form is equivalent to relatedness in space and time, holds true. The crucial methodological concern is to distinguish between homologous and analogous similarity (Binford 1968; Gould 1988).

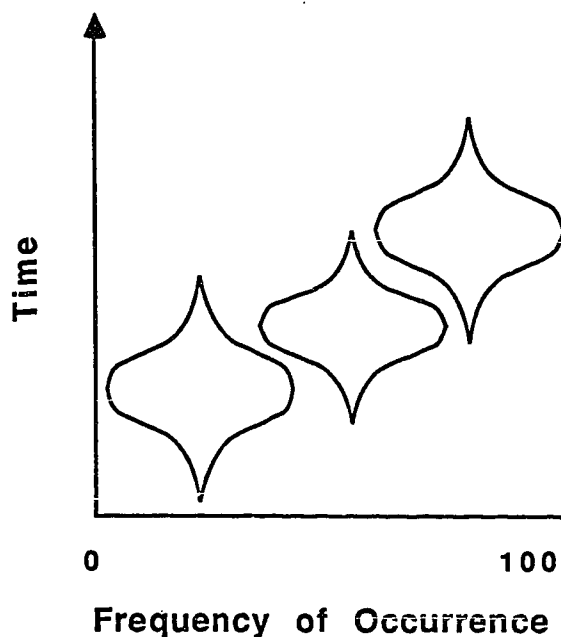


Figure 2: Model for the distribution of historical classes through time generated by the seriation method.

Because archaeologists have focused their interest on building cultural chronologies, unit construction has focused on delineation of stylistic units. Because style is independent of selective processes, stylistic similarity can be explained only by mechanisms of cultural interaction. These mechanisms include migration, diffusion, and trade; and they explain homologous similarity by interaction among populations across space and through time. Only when homologous relationships cannot be accounted for by any stretch of the imagination is

independent invention invoked to account for a particular form. For stylistic units this methodology is consistent and appropriate.

The properties of style that enable us to construct chronologies and identify cultural interaction are the processes that render it independent of evolutionary explanations. For example, the distribution of a pottery style can be explained by any of the mechanisms accounting for interaction among populations (e.g., trade, migration and diffusion) but the form of that style cannot be explained by selective processes.

In contrast, functional attributes are forms that can be explained by selective processes. Because they do affect the Darwinian fitness of a population, they are dependent upon environmental constraints, and their adoption depends on selective pressures rather than purely cultural transmission. Consequently, the distribution of functional attributes across space and through time can be explained by deterministic rather than probabilistic kinds of processes.

Functional similarity presents itself as a slightly more complex situation than stylistic similarity in that it can result from either homology or analogy. That is, it can result from either cultural interaction or convergence (i.e., independent invention). While it may be useful to identify and trace the origin of functional forms through homology, the important question is not so much their origins but why they become fixed when and where they did.

Unlike stylistic forms, functional forms can be repetitive. If a specific style is recognized as a complicated suite of attributes, the probability of that style being duplicated is astronomically low (Gould 1986). However, the probability of a specific functional form recurring as a solution to a similar problem is quite high. Thus, the distribution of a particular functional form may occur discontinuously across space and through time in that it can appear, drop out of the record, and be "reintroduced".

Finally, functional forms will have a predictable distribution in space and time only to the extent that environmental constraints or selective pressures are known. When a more efficient form appears,

either through innovation or shift in selective pressures, it will be selected in favor of less efficient ones (Figure 3). If a new form is substantially more efficient, or selective pressures are severe, then change will occur rapidly and produce a steep slope in its rate of change. Even though change is continuous, it may appear abrupt, more abrupt than the degree of temporal resolution at hand, and certainly more abrupt relative to prior or subsequent periods of stasis during which a particular constellation of forms is fixed. The abrupt appearance of change may appear as population replacement, but to invoke such a mechanism would be inappropriate especially when cultural continuity is otherwise indicated.

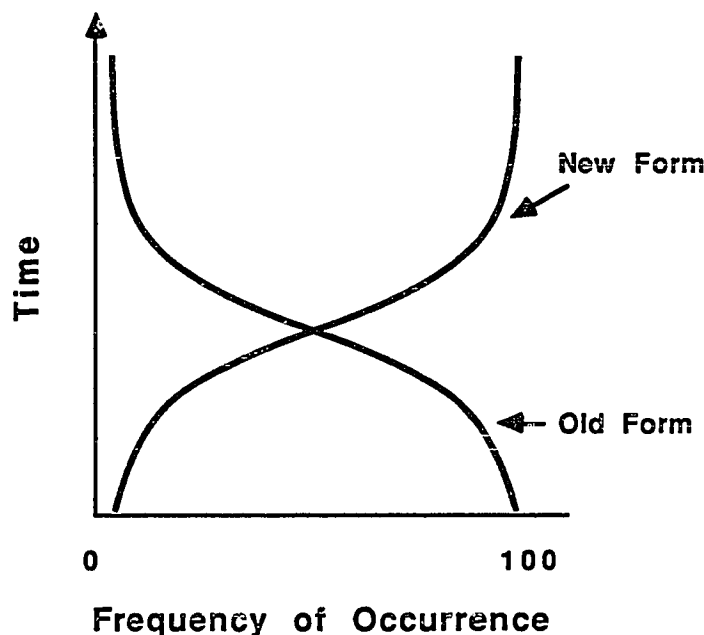


Figure 3: Model for the distribution of alternative functional forms through time.

In pursuit of chronological information, functional information has been ignored if not altogether obscured by the units created to describe the record (e.g., pottery styles, projectile point styles, phases, and periods). These units are not deficient but merely reflect the purpose for which they have been created. Using them for evolutionary explanations is problematic because they treat functional

variability in only a superficial way. With functional change reduced to gross differences between discrete units, and sequential time periodized, we are left with the appearance of abrupt, transformational change. The nature of change is ultimately an empirical question, but it is important not to confuse the rate of change with the mode of change.

Implications for Evolutionary Approaches

Although the nature of archaeological research problems has changed, interpretive frameworks have not. If we continue to rely on frameworks generated for past research problems, resolution of evolutionary questions will be problematic. These frameworks impose an inappropriate structure on the record that suppresses variability, evident by the way discrete, homogeneous cultural units are defined, and the way cultural change is represented. These frameworks also emphasize stylistic information at the expense of functional information limiting the kind of mechanisms that can be invoked to explain culture change.

In pursuing evolutionary explanations functional information becomes relevant. Mechanisms accounting for homologous similarity account for only a part of the observed variability. At present, we are only beginning to understand the range of functional variation in the archaeological record.

Smith predicts that explanations of Mississippian development will not be soon in coming. He attributes only part of the problem to the scope and complexity of the research problem. No less important is that the research problem has been approached by invoking simple "unicausal models" or searching for a core area (Smith 1984:20). On the one hand, it is easier to conceive of the problem in terms of searching for a heartland because such a pursuit is intrinsic to a space-like framework. On the other hand, the scope and complexity of pursuing evolutionary explanations is enormous. It requires examination of the archaeological record in the context of a

theoretical framework that runs counter to our common sense understanding of the world, and systematic analysis of a vast amount of empirical data described in terms of units that have yet to be created. Archaeological descriptions within an evolutionary paradigm will look quite different from those currently relied upon.

The purpose of this research is to refine our understanding of the Mississippian archaeological record through an examination of one local expression. The strategy and tactics followed through the course of this research are based on the premise that scientific explanation of variability in the archaeological record is the primary goal of archaeological research, and that this is best pursued within the context of evolutionary theory. Taking on an evolutionary approach has two important implications.

First, evolutionary explanations account for functional forms, or, those forms which affect the Darwinian fitness of the population in which they occur. Second, the archaeological record must be described within a time-like framework. A time-like framework implies a theoretical position based on materialist principles or population thinking in which time and space are treated as continuous dimensions. The degree of resolution with which these dimensions can be measured is an important consideration. Space is a direct measure but time is a result of archaeological inference. Of primary importance is the role of empirical variation within a time-like framework and how it must be expressed in archaeological descriptions. As argued above, variability is the rule, rather than the exception. Change arises from empirical variation, and the kinds or types of things, which structure perception, are consequences of change.

The units used in this analysis are analytic units, designed to express functional variability. The outcome of this research is to demonstrate the utility and implications of examining functional variability and the perspective it generates for understanding the past.

Chapter 3

THE STUDY AREA: THE MALDEN PLAIN, SOUTHEAST MISSOURI

The environment and resources available to prehistoric populations are important to the understanding of the evolution of cultural systems. In a larger context, the geography of the region also affects inter-regional interaction among populations. Furthermore, the environment of the area affects the context of the archaeological record, which has implications for specific strategies and tactics followed in order to obtain information from that record. An understanding of the Malden Plain is thus crucial to what follows.

The Malden Plain lies within the northern part of the Lower Mississippi Valley (Fisk 1944; Saucier 1964). It is included within the Eastern Lowlands, an area west of the current Mississippi River meander belt and east of Crowley's Ridge (Figure 4). The Eastern Lowlands region is low-lying and poorly drained by several rivers that feed into the Mississippi. It is at a lower elevation than the main Mississippi levee system, and during times of flood water backs up into the area and is slow to drain. Because of the generally poor drainage, minor changes in elevation are reflected in substantial differences in relative periods of inundation. This in turn has major effects on vegetation and landforms suitable for human settlement. Since relative elevation is a function of the depositional history of the region, vegetation and locations of human occupations correspond tightly with landforms and sediments.

Depositional Environment

During the early Wisconsin glaciation, the Ohio River occupied the Eastern Lowlands and the Mississippi River occupied the Western Lowlands. The Commerce Hills and Crowley's Ridge which are Tertiary or early Pleistocene remnants of glacial outwash origins, formed the divide between the two rivers. Saucier (1974, 1978) contends that the Ohio and Mississippi Rivers maintained their relative positions and

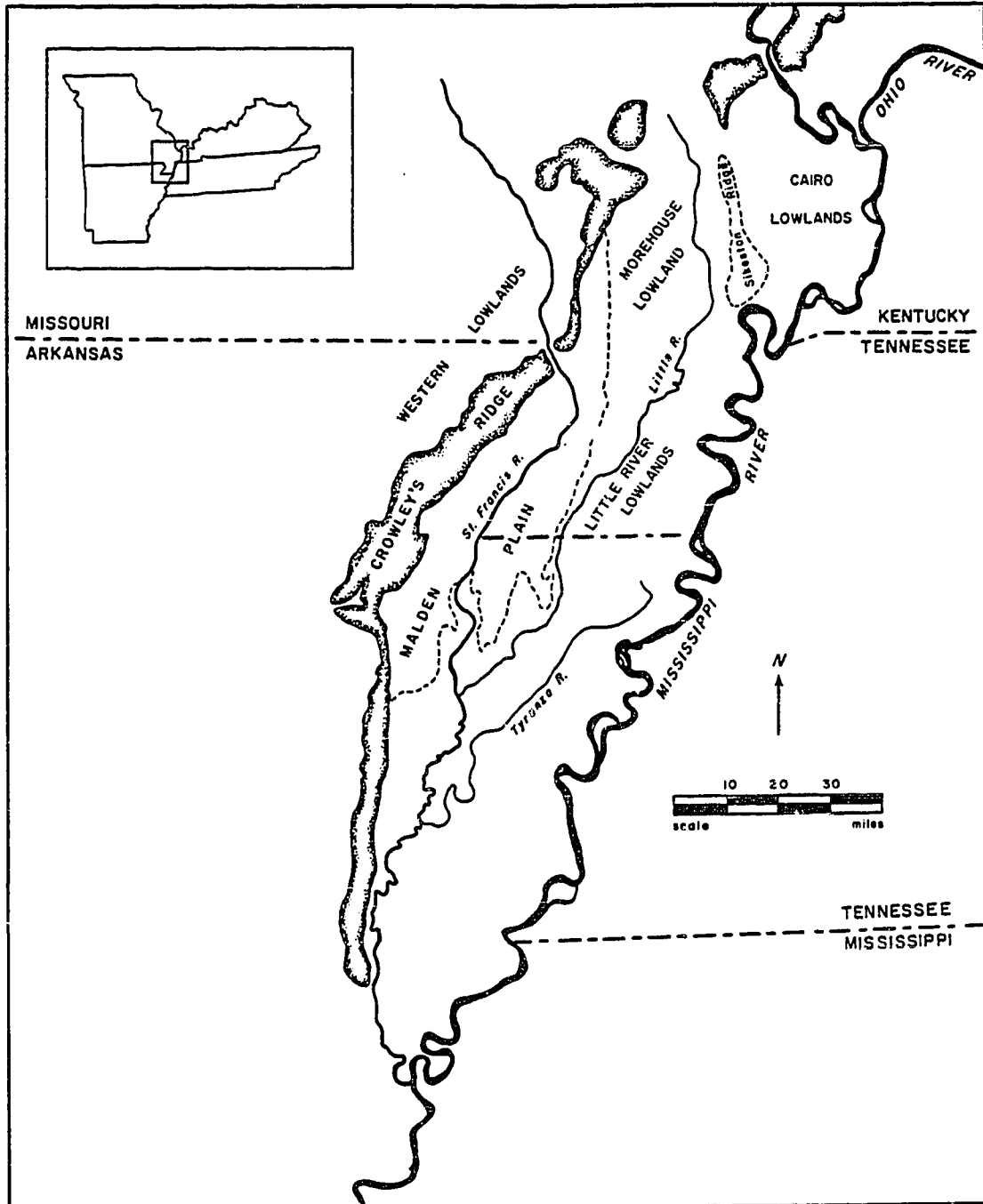


Figure 4: Physiographic features of the Central Mississippi Valley.

braided stream character through the Farmdale interstadial (ca. 30,000-22,000 BP), and the late Wisconsin Woodfordian glaciation (ca. 22,000-12,000 BP). At about 15,000 BP, the volume of water and glacial outwash carried through the Mississippi and Ohio River systems increased substantially. It was at about this time that the Mississippi River abandoned its course in the Western Lowlands, cutting its way through the Bell City-Oran Gap into the Eastern Lowlands.

The Mississippi shifted to a meandering regime south of Baton Rouge, Louisiana as early as 12,000 BP, (at which time the Eastern Lowlands was still an active depositional surface), and as far north as Memphis by 9000 BP. The Mississippi was diverted eastward once again through Thebes Gap in the Commerce Hills where it flowed into an area east of Sikeston Ridge. This shift also marked the time at which the last portions of the Lower Mississippi River shifted from a braided to a meandering regime. Saucier (1974) postulates this occurred about 6000 BP, although more recent evidence suggests an earlier date, of about 8800 BP. The lowest level of a pollen core taken from the Old Field in the Morehouse Lowlands was dated to 8810 ± 90 BP. The absence of any alluvial bands within the swamp sediments indicates that the Morehouse lowlands have not been flooded by the Mississippi River since that time (King and Allen 1977).

When the Mississippi River shifted to the east of Sikeston Ridge, the St. Francis River and other smaller streams also shifted. The Whitewater River drained through the Bell City-Oran Gap until it was diverted through canalization into the Mississippi River near Cape Girardeau. Water from this area now drains through the Little River, which occupies the former Mississippi floodplain of the Morehouse-Little River Lowland. The St. Francis River assumed its present position in the main channel of the abandoned braided Ohio River (Fisk 1944).

There are significant differences between the Malden Plain, the Little River Lowland, and the Morehouse Lowland, which, together with the Cairo Lowland and Sikeston Ridge, comprise the major features of the Eastern Lowlands. The Morehouse-Little River Lowlands are composed

primarily of younger floodplains that are still active, whereas the Malden Plain (in addition to Sikeston Ridge and scattered remnants in the Morehouse-Little River Lowlands) is composed of the older Ohio alluvial fan. The Morehouse Lowland occupies the area between the Malden Plain and Sikeston Ridge and is drained by a system of anastomosing streams that follow the old Mississippi River braided channels. The Little River Lowland, south of but continuous with the Morehouse Lowland, has been subject to greater alluviation and erosion so that scars of the braided Mississippi channels have been largely obliterated.

As a distinct physiographic area, the Malden Plain was first described by Fisk (1944). It extends from the southcentral portion of Stoddard County, Missouri, southward to include most of Dunklin County and portions of Mississippi County, Arkansas. It is bounded on the north and west by Crowley's Ridge, and on the east by the Little River and Morehouse Lowlands.

The surface of the Malden Plain is late Pleistocene or early Holocene in age as it was created by alluvial deposition of the Ohio and Mississippi Rivers draining the Late Wisconsin glaciers. The Malden Plain lies at a slightly higher elevation than the adjacent Little River and Morehouse Lowlands. It also has a slightly steeper slope and in the south it grades into these lowlands near the confluence of the St. Francis and Little Rivers. Furthermore, in contrast to the Little River and Morehouse Lowlands, the Malden Plain has not been reworked by the Mississippi or more recent river systems.

The Malden Plain is largely undissected and has received little recent deposition. Remnants of channel bar deposits resulting from the braided stream system are still visible on the landscape and comprise the major topographic features of the area. Since the low-velocity regime of the current alluvial systems are not competent enough to cover or to entrain the previously deposited sandy alluvial channel bars, present rivers have followed low-lying areas created by the former channel scars. Recent deposition has occurred under backswamp conditions of underfit river systems present in the area today. This

deposition is composed of fine grained sediments and has been confined to low-lying areas between the older channel bars. Even the St. Francis River has only slightly modified the original Ohio channel features (Fisk 1944).

Vegetation

Understanding the pre-Modern forests of the Malden Plain is confounded by the fact that this region is substantially altered and artificially maintained. Little of the pre-European settlement environments are still intact. The higher elevations were cleared of timber by the 1880s and soon placed under cultivation. The St. Francis levee system was built in the early 20th century and, with the massive system of ditches that transect the area, thoroughly drains the region, making it available to intensive agriculture as now practiced. Roughly 86% of Dunklin County is under cultivation (Gurley 1979).

Natural stands of timber exist in few areas in the Central Mississippi Valley. The Big Lake National Wildlife Refuge, under protection by the federal government since 1915, consists of over 9000 acres of open and shallow water swamp. Reelfoot Lake State Park and Wildlife Preserve has been protected by the state of Tennessee since 1925 where the last stand of virgin cypress and ash was cut in 1950 (Shelford 1954).

The pre-European settlement forests of southeast Missouri are included within the northernmost extension of the southern floodplain forests (E.L. Braun 1954; Kuchler 1964). Ameliorating effects of the river produce a more southern climate in comparison to regions outside the alluvial valley at similar latitudes. Because the area is poorly drained, it supports a variety of water tolerant species of oaks (*Quercus* spp.), gums (*Nyssa aquatica* and *N. sylvatica*), bald cypress (*Taxodium distichum*), sweet gum (*Liquidambar styraciflua*), elms (*Ulmus* spp.), red maple (*Acer rubrum*), ashes (*Fraxinus* spp.), cottonwoods (*Populus* spp.), and a vast array of shrubs and lianes.

Few palynological studies have been made in the southern Midwest due to a lack of appropriate sites for obtaining suitable cores. What work has been conducted (Delcourt et al. 1980; Delcourt and Delcourt 1981; Guccione, et al. 1988; King 1978; King and Allen 1977; King and Lindsay 1976), indicates that the southern deciduous forests have substantial continuity through time while responding to larger climatic shifts. The most important and immediately relevant studies are those by King and Allen (1977) and Delcourt, et al. (1980). King and Allen present a pollen sequence from a core from a former peat swamp in the Morehouse Lowland in Stoddard County, Missouri, while Delcourt, et al. (1980) present a sequence from Nonconnah Creek in western Tennessee.

The early Holocene in the Central Mississippi Valley is characterized by a mixture of bottomland forests, grass, and open water communities (King and Allen 1977). A mid-Holocene episode of decreased effective moisture is evident (Delcourt et al. 1980; King and Allen 1977), although the effects of this episode are highly local in character. Reduction of swamp areas, although not complete desiccation, is documented (King and Allen 1977). After 5000 BP, increased effective moisture is seen by renewed development and increase of bottomland arboreal vegetation, no doubt reflecting an increase in swamp area. Apparently, the major modern forest configurations were in place during the early part of the late Holocene (Delcourt and Delcourt 1980).

Differences in the depositional histories between the Morehouse-Little River Lowlands and the Malden Plain are important in that they reflect the pre-European settlement hydrologic situation, which in turn strongly influences their respective biotic communities. Vegetation differences, are manifest not so much in the plant species present, but in their distributions.

Recent vegetation studies associated with archaeological investigations (Cochran 1982; Cottier and Waselkov 1977; Harris 1980; Lewis 1974) are based on earlier forest surveys (e.g., Putnam and Bull 1932) and GLO survey notes. Those of Lewis (1974) and Cottier and Waselkov (1977) were conducted for Mississippi and New Madrid Counties,

Missouri where substantial differences from the Malden Plain can be expected. The studies conducted by Harris (1980) and Cochran (1982) are both located in the southern portion of the Malden Plain in Arkansas near the St. Francis sunklands. These latter studies are locally specific. Correlating the biotic communities defined from various vegetation studies is difficult, partly because of the methods used to create them. However, the variance in biotic communities evident from one study to the next emphasizes the complex nature of the region's biota and the overall problem in applying the concept of biotic communities to vegetation.

Characterizing the Malden Plain's vegetation by biotic communities glosses over one of the most important environmental features of the region. Specific forest composition is highly dependent on minor changes in elevation because of poor drainage. The slightly undulating braided stream topography results in a highly complex and patchy environment.

Prior to construction of the modern levee and drainage systems, the St. Francis and Little Rivers were subject to severe flooding. As noted above, the Eastern Lowlands are at a lower elevation than the Mississippi River meander belt and consequently, they drain more slowly and remain inundated much longer. However, because the Malden Plain is at a higher elevation than the Morehouse-Little River Lowlands, this area was inclined to experience slightly better drainage conditions.

Another distinctive aspect of the Malden Plain is that it encompassed a wide range of microenvironments ranging from areas of true southern swamp along the St. Francis and Varney Rivers (E.L. Braun 1950; Coulter 1904), to relatively large prairie areas in elevated areas which supported upland biotic associations which are not ordinarily noted in broad-based descriptions.

Plant associations of the swamp forests identified in various vegetation studies correspond well with one another and are somewhat straightforward (Braun 1950; Coulter 1904; Putnam and Bull 1932; Shelford 1954, 1963). These areas were dominated by the southern cypress (*Taxodium distichum*) and Tupelo gum (*Nyssa aquatica*). The most

extensive description of the swamps in this region was made by Coulter (1904) who traveled between Bertig, Arkansas and Kennett, Missouri, along the Varney River. He identified plant taxa for the open water areas (Table 2), areas marginal to the swamp (Table 3), as well as the forest marginal to the swamp (Table 4).

Table 2: Plant taxa identified by Coulter (1904) for open water areas.

<u>Listed by Coulter</u>	<u>Common Name</u>	<u>Probable or Preferred Name</u>
<i>Polygonum densiflorum</i>	knotweed	
<i>Myriophyllum</i>	coontail	<i>M. heterophyllum</i>
<i>Ceratophyllum</i>		<i>C. demersum</i>
<i>Potamogeton</i>		<i>P. nodensus, P. illinoiensis</i>
<i>Cabomba</i>		<i>C. caroliniana</i>
<i>Zizaniopsis miliacea</i>	water millet	
<i>Typha latifolia</i>	cat-tail	
<i>Peltandra undulata</i>	arrow arum	<i>P. virginiana</i>
<i>Azolla caroliniana</i>		<i>A. mexicana</i>
<i>Lemna minor</i>	duckweed	
<i>Ricciocarpus natans</i>		
<i>Saururus cernuus</i>	lizard's tail	
<i>Sium cicutaefolium</i>	water parsely	<i>S. suave</i>

Table 3: Plant taxa identified by Coulter (1904) for areas peripheral to open water.

<u>Listed by Coulter</u>	<u>Common Name</u>	<u>Probable or Preferred Name</u>
<i>Salix</i>	willow	
<i>Cephalanthus occidentalis</i>	button bush	
<i>Nelumbo</i>	American lotus; Yanquapin	<i>N. lutea</i>
<i>Nuphar advena</i>	yellow pond lily	<i>N. luteum</i>
<i>Nyssa uniflora</i>	tupelo gum	<i>N. aquatica</i>
<i>Taxodium distichum</i>	bald cypress	
<i>Rosa carolinia</i>	pasture rose	
<i>Itea virginica</i>	Virginia willow	
<i>Polypodium incanum</i>		<i>P. polypodioides</i>
<i>Mikania scadens</i>	climbing hempweed	

Table 4: Plant taxa identified by Coulter (1904) for forest areas marginal to the swamp.

<u>Listed by Coulter</u>	<u>Common Name</u>	<u>Probable or Preferred Name</u>
<i>Liquidambar styruciflua</i>	sweet gum	
<i>Quercus</i> (spp.)	oaks	
<i>Q. Michauxii</i>	cow oak	
<i>Q. alba</i>	white oak	
<i>Planera aquatica</i>	water elm	
<i>Acer drummondii</i>	red maple	<i>A. rubrum</i> v. <i>drummondii</i>
<i>Sassafras</i>	sassafras	
<i>Plantanus occidentalis</i>	sycamore	
<i>Gymnocladus canadensis</i>	Kentucky coffee tree	<i>G. dioica</i>
<i>Celtis mississppiensis</i>	hackberry	<i>C. laevigata</i>
<i>Nyssa sylvatica</i>	black gum	
<i>Cercis canadensis</i>	redbud	
<i>Lindera benzoin</i>	spice bush	
<i>Cornus paniculata</i>	dogwood	<i>C. florida</i>
<i>Asimina triloba</i>	pawpaw	
<i>Ulmus alata</i>	winged elm	
<i>Morus rubra</i>	red mulberry	
<i>Euonymus Americanus</i>	strawberry bush	
<i>Aralia spinosa</i>	Hercules club	
<i>Tecoma radicans</i>	poison ivy	<i>Rhus radicans</i>
<i>Rhus Loricodendron</i>	poison ivy	(?)
<i>Bignonia capreolata</i>	cross vine	
<i>Ampelopsis quinquefolia</i>	grape	<i>A. cordata</i> , <i>A. arborea</i>
<i>Leitneria Floridana</i>	cork tree	

Coulter noted interesting differences between the swamp areas near Bertig and Kennett, many of which indicate slightly drier conditions in the Kennett area and certainly reflect the general gradient of the Malden Plain as one moves south.

Marginal to the swamp areas, Coulter also described areas experiencing substantial inundation (1904:60-61) (Table 4), which conform to the Sweetgum Seasonally Inundated Swamps described by Putnam and Bull (1932). These descriptions also correspond to Braun's hardwood bottoms which are dominated by sweet gum, elm, hackberry, green ash, cottonwood, black gum, red maple, boxelder, sassafras, and the more water tolerant species of oaks (cow, overcup, Nuttall, willow, and swamp, Braun 1950:293). Nevertheless, Braun describes the hardwood

bottoms as extremely variable, differing in specific content and encompassing many smaller species associations defined by others (cf. Cochran 1982; Harris 1980).

The Malden Plain reaches its highest elevations along its eastern edge where a low but abrupt escarpment rises above the Little River Lowland. These higher elevations supported vegetation communities referred to by Braun (1950:295) as the Ridge Bottoms. Here, sweetgum is again the dominant species, but it is associated with oaks (white, post, black, bur, and cherry bark) and hickories (shagbark and pecan), in addition to many of the taxa from the hardwood bottoms.

It is also important to note that because of its relatively higher elevation, the escarpment supported a discontinuous distribution of prairies (Schroeder 1981), providing an important contrast to the lowlands, much of which experienced either permanent or seasonal inundation. The prairies are characterized by more upland associations not frequently encountered in broad-based descriptions. For example, trees identified in the GLO survey notes for T23N R10E Section 15 in the immediate area of the County Line settlement include black oak (*Q. velutina*), white oak (*Q. alba*), post oak (*Q. stellata*), and black jack oak (*Q. marilandica*). Smaller prairies, also corresponding to the higher elevations within the Malden Plain proper have also been documented in the GLO notes (cf. Dunnell 1984b).

The prairies, although documented in the GLO notes, are not well described. Since the GLO surveys served to identify agricultural and timber resources, and timber resources in prairies are scarce, the descriptions often fell short of the four marker trees usually required. Herbaceous vegetation was ignored. These prairies are small in comparison to those of the Ozark Uplands, or even the Grand Prairie of central Arkansas, and were prime targets of the first plow equipped European settlers. Consequently, there is little descriptive literature on them (cf. Harper 1914, 1917).

In summary, the late Holocene is characterized by limited change in climate, vegetation, and hydrological regimes but the area has been substantially altered during the late 19th and 20th centuries. This

once heavily wooded area is now an artificially maintained environment under intensive cultivation. Since the land surface is quite old and has experience limited recent deposition or erosion, most of the relevant archaeological record can be expected to occur in the modern plow zone, and limited subsurface features. As a result, the archaeological record of the Malden Plain is highly visible and accessible.

Geography and Settlement

The environment and geographic position of the Malden Plain played an important role prehistorically. Although much of the Malden Plain is low-lying and was (before modern drainage) backswamp, there are many areas of higher elevation. Higher elevations would remain dry during wetter conditions and play an important role in prehistoric subsistence and settlement systems. As to be expected, concentrations of prehistoric artifacts on the Malden Plain reach their highest densities along the escarpment where concentrations are too high to form discrete sites.

The Malden Plain is geographically isolated. To the west, Crowley's Ridge rises as much as 200 feet above the Malden Plain, forming somewhat of a cultural boundary evident in the prehistoric past (Phillips, Ford, and Griffin 1951:12). To the east, the Malden Plain faces the Little River Lowland, a huge back swamp with large areas of open water or lakes. It was rarely dry prior to modern canalization and drainage projects, and provided a rather formidable barrier to access the Mississippi River. In times of flood, the distance between the Mississippi meander belt to Crowley's Ridge and the St. Francis River could be traveled in a rowboat (Shelford 1954; 1963). The St. Francis River, which flows through the Malden Plain, provides a major artery of transportation and communication to the south. Throughout prehistory, populations on the Malden Plain share far more similarities with populations to the south than east (Dunnell and Feathers 1986).

Historically, European settlers arrived on the Malden Plain relatively late, attracted to the region by the timber industry. The first settler arrived in 1829 while the earliest settlements established at Hornersville in the 1830s, at Malden in the late 1830s, and at Kennett in the 1840s (Smyth-Davis 1896). Typically, these locations are the highest elevations in the area.

The Malden Plain Mississippian Archaeological Record :

Although the Central Mississippi Valley has been the focus of an enormous amount of archaeological research, the Malden Plain has been largely ignored. Among the numerous mound surveys conducted in the Central Valley during the late 19th and early 20th centuries, only two included earthworks on the Malden Plain (Houck 1908; Thomas 1894). Furthermore, while extensive archaeological investigations were carried out throughout the southeast during the 1930s, only limited efforts focused on the Central Mississippi Valley (Adams 1941; Adams and Magre 1939; Adams, et al. 1941; Adams and Walker 1942; Walker and Adams 1946), and none included the Malden Plain.

The first Lower Mississippi Valley Survey (Phillips, Ford, and Griffin 1951) did not include the Malden Plain, as the northern limits of that study extended only to the Lower St. Francis River Valley. The results of that survey have provided the major culture historic framework for the Central Mississippi Valley, including the northern portion. However, it was clear in their synthesis, and remarked upon in later work (Phillips 1970), that the prehistoric record in the northern reaches of the survey area differed from the remainder of the Lower Valley. Subsequent surveys were conducted to explore the northern Lower Valley (Griffin and Spaulding 1951; Williams 1954).

Williams was the first to conduct research on the Malden Plain. He included the Cairo Lowland, Little River Lowland, and the Malden Plain in his study, considered each area separately, and provided the initial chronological framework for the Mississippian Period in each of those regions.

For the Malden Plain, Williams (1954) described seven sites, and defined two phases: the Woodland Period Dunklin Phase and the Mississippi Period Malden Plain Phase. He considered the Malden Plain Phase early Mississippi. This assessment was based primarily on features of the ceramic assemblages. In the Malden Plain assemblages, he noted the lack of strap handles, appendages, and decorated ceramic types common in other areas of the Central Mississippi Valley. Williams noted several distinctive aspects of Malden Plain ceramic assemblages. He identified a complementary distribution of grog and sand tempered ceramics for the Woodland Period in southeast Missouri. He also distinguished Varney Red Filled ceramics from the Old Town Red ceramics, noting that the Varney Red Filled type had a distinctly earlier distribution than the Old Town Red type. He further noted that the Bell Plain ceramic type was often tempered with finely crushed grog or clay in the southeast Missouri area.

Williams established a three sub-period chronology for the Mississippi Period of the Southeast Missouri area (Figure 5). His chronology described the Malden Plain Phase as early, the Cairo Lowland Phase as representative of a middle period phase, and the Nodena phase as representative of a late period phase.

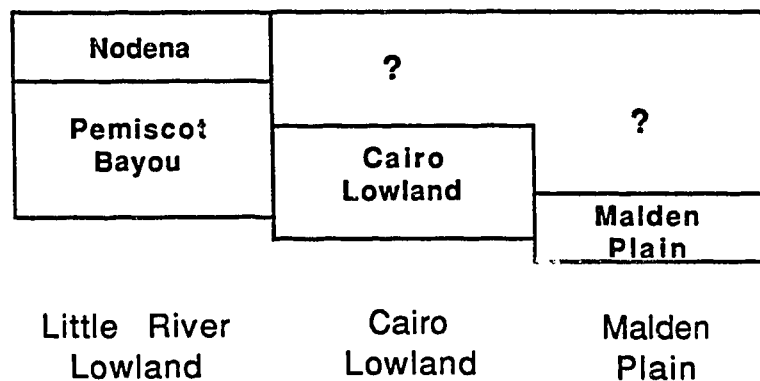


Figure 5: Mississippian Chronology for southeast Missouri developed by Williams (1954:124, Table 2).

Subsequent to Williams' study, excavations were conducted at Lawhorn in northeastern Arkansas, (Moselage 1962) and at Marrett (Marshall 1965). The Lawhorn ceramic assemblage included many features suggesting an occupation later than the early Mississippi period. Moselage reports at least 5 effigies, handles (including strap, loop, and lug types) and several decorated types, including Carson Red on Buff, Nodena Red and White, and Matthews Incised. The Mississippi assemblage from Marrett contained several handles, fewer decorated types, and differences in the red filmed ware as described by Williams. Marshall (1965) considered both the Lawhorn and Marrett materials to represent a "later complex" than the Malden Plain Phase. It is reasonable to assume that his assessment was based on the higher frequencies of handles, effigies, and decorated types, features which were conspicuously absent from Williams' assemblages and had led him to identify the Malden Plain Phase as early.

Phillips (1970), in a more general study of the Lower Mississippi Valley, relied primarily on Williams' research for Southeast Missouri. He did not retain any of the finer distinctions made by Marshall and included Lawhorn in the Malden Plain Phase. He pointed out, at some length, that Williams (1954) had already assigned the Marrett Site to the Malden Plain Phase under another name, Cockrum's Landing. Although there may be temporal differences within the Malden Plain Phase, they were insufficient to warrant definition of a new phase. Thus, Phillips retained Williams' chronological framework for the southeastern Missouri area. In this framework, the Malden Plain Phase begins slightly earlier and is contemporary with the Cairo Lowland Phase. This framework also supported an emerging interpretation that Mississippian populations experienced a downstream movement through time.



The recent synthesis by Morse and Morse (1983) for the Central Mississippi Valley is far more comprehensive and incorporates a great deal of research conducted in this region since Williams' and Phillips' work. Although the Malden Plain has not been the primary focus of archaeological research in this region, intensive research in nearby

areas like the Western Lowlands (Price and Griffin 1979; Smith 1976, 1978a), along the Mississippi River (Morse 1973), the Lower St. Francis drainage (P. Morse 1981), and the American Bottom (e.g., Bareis and Porter 1984) has influenced recent interpretations. Wider changes in American archaeology are also reflected in this synthesis. Subsistence and settlement studies (e.g., Price 1978; Price and Griffin 1979; Smith 1978, 1978a), a greatly expanded absolute chronology, and recognition of greater spatial and temporal variation among Mississippian populations, all contribute to a more detailed picture of the Mississippian record in the Central Valley.

To accommodate greater spatial and temporal variation, Morse and Morse incorporate the concept of "emergent" Mississippi populations (e.g., Kelly et al. 1984; Klinger 1982; Morse and Morse 1980) and a greater number of geographic phases into the three sub-period framework first established by Williams. Their chronology places the early period from A.D. 700 to 1000, the middle period from A.D. 1000 to 1350, and the late period from A.D. 1350 to 1650.

Morse and Morse's chronology differs from that of Williams, but the changes are clearly refinements rather than structural differences (Figure 6). Although Williams (1954) and Phillips (1970) recognized temporal variation within Mississippian, they were more inclined to treat the Mississippian as a single unit and emphasized geographic variation. The major difference between the chronological frameworks presented by Williams and Phillips on the one hand and the Morses on the other can be accounted for by a different conception of "early".

Morse and Morse use the early Mississippi period to accommodate the concept of "emergent" Mississippi. On the Malden Plain these materials are assigned to the Big Lake Phase, and the designation of this phase is based on the large scale excavations at Zebree (Morse and Morse 1980). In the Cairo Lowland, early materials are assigned to the Late Hoecake Phase. Although these same materials have been designated as Baytown or Woodland by previous researchers (Phillips 1970; J. Williams 1974), Morse and Morse (1983) believe that developments in the

Nodena			1650
Pemiscot Bayou	Cairo Lowland	Lawhorn/ Malden Plain	1350
	Late Hoecake	Big Lake	1000
			700

Little River Lowland	Cairo Lowland	Malden Plain
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Figure 6: Mississippian Chronology for the Central Mississippi Valley presented by Morse and Morse (1983).

American Bottom played a critical role in the development of Mississippian in the Central Mississippi Valley via the Cairo Lowland. In this context, they hypothesize that emergent Mississippian populations on the Malden Plain are the result of population movement into the area from elsewhere.

Morse and Morse also recognize the Lawhorn Phase, which Phillips did not, and as a result, the Malden Plain phase defined by Williams is given slightly different spatial and temporal meaning than originally conceived. In order to maintain use of the Malden Plain Phase, Morse and Morse assign it to the middle period, rendering it contemporary with the Lawhorn phase. To accommodate two middle period phases on the Malden Plain, the Malden Plain Phase is relegated to the north and the Lawhorn Phase to the south.

For the most part, Morse and Morse treat the middle Mississippi period (A.D. 1000-1350) in reference to the Eastern Lowlands as a whole. The earlier portion of this period is represented by the Cherry Valley Phase and based primarily on the mortuary ceramics from the Cherry Valley Mounds located just west of Crowley's Ridge in the Lower St. Francis River Valley (Perino 1967). They identify the middle Mississippi period as one during which important social developments

occurred. Many independent chiefdoms were distributed throughout the Central Mississippi Valley and underwent increasing consolidation, thereby being reduced in number. The Cairo Lowland is considered the population and cultural "center" for the middle Mississippi period where the largest mound centers are located (e.g., Lilbourn, Beckwith's Fort, Matthews, Sandy Woods, and Crosno).

Morse and Morse (1983) generate a description of middle Mississippi subsistence and settlement patterns based on the Powers Phase research (Price 1978; Price and Griffin 1979; Smith 1978a; Black 1979), the Cairo Lowland Phase (Adams and Walker 1942; Chapman et al. 1977; Healen 1972; Walker and Adams 1946; Williams 1954) and their own extensive knowledge of the area. Although investigations have been bias toward large mound centers, small settlements are the type most commonly identified in intensive surveys. According to Morse and Morse (1983) These smaller settlements were integrated into a larger community through the civic-ceremonial center (mound center).

Morse and Morse identify the late Mississippi period by major settlement pattern changes, reflecting substantial demographic shifts throughout the Central Mississippi Valley. At about A.D. 1350, in what appears to be a short period of time, the northern portion of the area was without permanent settlements. As originally stated by Williams (1982) abandonment of the region, or, "the Vacant Quarter Hypothesis" was applied primarily to the Cairo Lowland. As Morse and Morse (1983) state the case, virtually all braided stream surface areas in addition to the Cairo Lowland were abandoned.

Morse and Morse argue that a downstream population movement occurred into the meander belt areas of the Middle and Lower St. Francis River, Pemiscot Bayou, and Mississippi River, areas which displayed particularly marked population increases at that time. Populations from the Cairo Lowland are believed to have moved south into northeastern Arkansas to form the Nodena Phase, while those from the Western Lowlands moved south to form the Greenbrier Phase and those of the upper St. Francis moved south to form the Parkin Phase along the St. Francis and Tyronza Rivers. Several smaller, but equally important

contemporaneous phases are also documented; these include the Kent Phase, located along the Lower St. Francis River, and the Walls Phase which was located south of the Nodena Phase along the Mississippi River (Figure 7).

Explanations for abandonment have been suggested, but none have been thoroughly explored or appear convincing. One argument suggests that the physiography of the region could not support large nucleated settlements (Morse and Morse 1983). While this explanation is plausible, it does not apply uniformly to the entire region involved and fails to address why population nucleation was imperative. Another argument suggests that a breakdown in the elite power structure led to abandonment (Williams 1982). This explanation is also plausible, but it does not address why such a breakdown may have occurred.

The Vacant Quarter Hypothesis as applied to the Cairo Lowland has recently been questioned on both methodological and substantive grounds (Lewis 1982; 1984). Similar arguments could be made for the Malden Plain. For example, many of the horizon markers identified for the late period do occur on the Malden Plain. These occurrences, such as the late period projectile point styles, have been suggested to represent use of a region void of permanent settlements. For example, Morse and Morse (1983) contend that the northern quarter of the Central Valley was an important corridor through which trade goods from the upper Mississippi Valley and the Ste. Françoise Mountains continued to be transported, and argue that utilization of this region persisted but only on a temporary basis. Hence, late period artifacts are found in the context of temporary encampments.

Population nucleation also occurred on a local scale. Large, compact, usually fortified, settlements were established, features which are not evident during the middle period. The settlements of this time period are distinctive enough that Phillips, Ford and Griffin (1951) defined a "St. Francis settlement type". These are large, rectangular, and compact settlements, often fortified and appear to have been the residence for a large number of people. They are elevated above the natural topography through the accumulation of

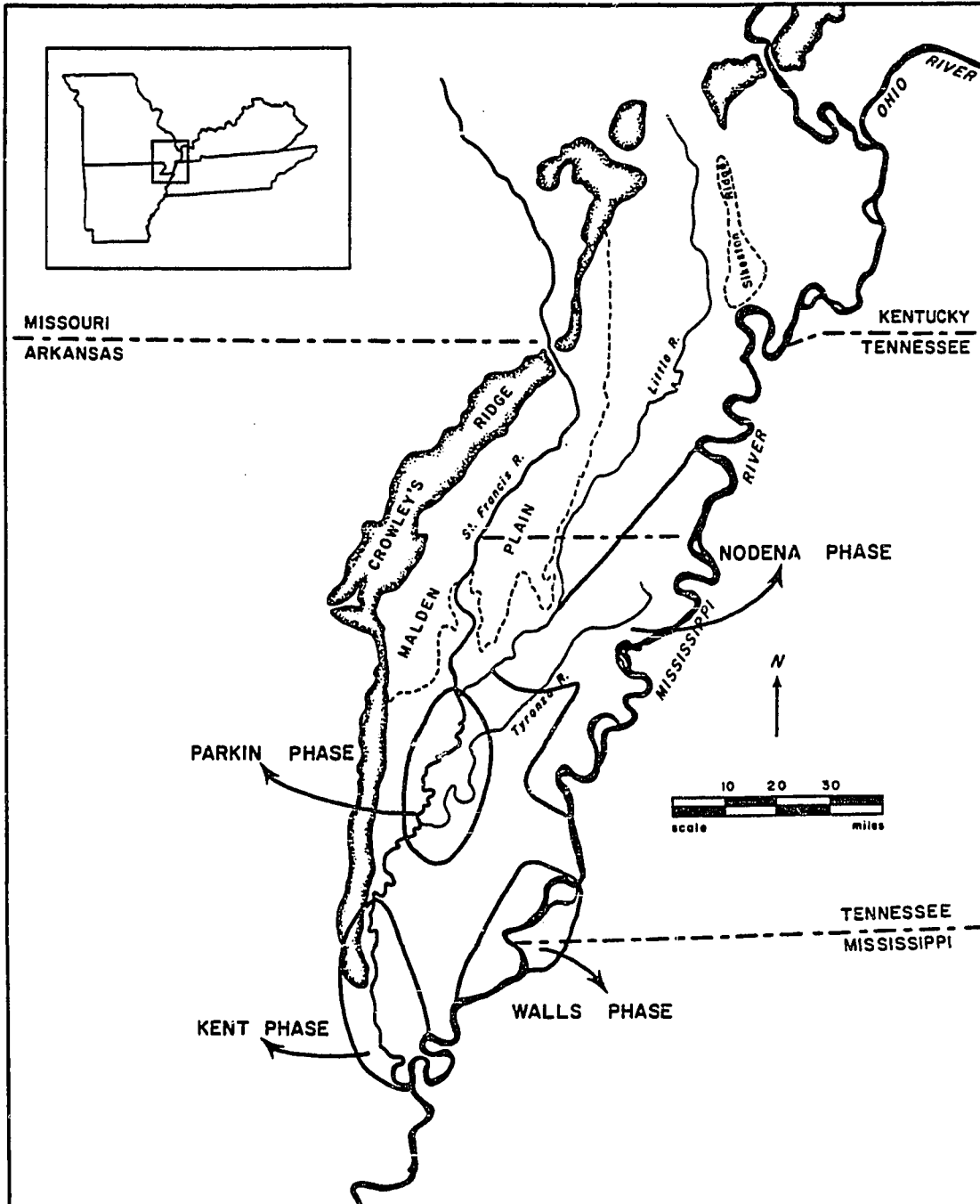


Figure 7: The distribution of late Mississippi period phases in the Central Mississippi Valley (after Morse and Morse 1983:270).

domestic debris. The accumulation of debris is believed to have been rapid, the function of high population density rather than duration of occupation. Local population nucleation is supported in that these settlements are not associated with smaller surrounding sites that are prevalent during the middle period (P. Morse 1981).

Surprisingly little information from the Malden Plain has contributed to our understanding of Mississippian development. Williams' original conception of the Malden Plain Phase has been extensively revised. Far greater temporal variation is now recognized and many of the sites he included within this previously defined early phase are now recognized as middle Mississippian.

More recently, Dunnell has studied the Malden Plain and, to a lesser extent, the adjacent lowlands (Dunnell 1982b, 1983, 1984a, 1984b, 1985a, 1985b; Dunnell and Feathers 1986). His research focuses on early Mississippian materials dating to about AD 840 \pm 130 (Dunnell 1982b, 1983), but has extended to Archaic (Dunnell 1984b, 1985), Woodland, and middle Mississippi materials as well (Dunnell 1984a, in preparation). On the basis of this research, Dunnell argues for Woodland-Mississippian continuity, and that early Mississippian materials can be accounted for by *in situ* development.

Based on fieldwork at the Langdon site (Dunnell 1984a, in preparation), Dunnell documents a St. Francis settlement located on the eastern edge of the Malden Plain. This settlement includes seven mounds and is surrounded by a fortification and moat. Materials from this site indicate a long term occupation ranging from middle Mississippi times, possibly through the late Mississippi period (Dunnell, personal communication).

Apart from Dunnell's research efforts, recent work on the Malden Plain has been by small publically funded Cultural Resource Management projects (Klinger 1982, 1983; Klinger et al. 1981; Klinger and Dinwiddie 1982; McNerny 1977; Padgett and House 1977; Price and Price 1972; Price, et al. 1975, 1976, 1978, 1980).

Chapter 4

RESEARCH QUESTIONS AND DATA REQUIREMENTS

Evolutionary theory generates a model in which change is viewed as the differential persistence of alternative traits through time (Lewontin 1970). In applying this paradigm to cultural phenomena, functional traits are defined as those which respond to selective processes (Dunnell 1978). Equally important are the ontological implications of an evolutionary paradigm (Hull 1965; Sober 1980; Gould 1986). The role of variation is causal, being what natural selection acts on to produce change. In a time-like framework, "things", as we perceive them, are constantly changing.

After evaluating the concept of Mississippian with the benefit of hindsight provided by previous research programs, I argued in Chapter 2 that a materialist ontology is far more useful than an essentialist one for pursuing historical explanations. The utility of a materialist ontology becomes evident in light of the problems identified when relying on an essentialist methodology.

Within an essentialist framework, Mississippian is viewed as an empirical and homogeneous unit, the constituents of which are free to vary only in degree, quantity, or scale, but not in quality. When types are used as attributes of periods or phases, they can only measure differences (e.g., whether something is or is not Mississippian). Consequently, they cannot be used to measure change.

From a materialist perspective, Mississippian can be viewed as a constellation of traits distributed among a wide range of prehistoric populations in eastern North America. From this definition, we would expect that the attributes previously used to define Mississippian display an enormous amount of variability. More importantly, this variation can be expected to be non-random in character.

In an essentialist framework, when cultural units such as periods or phases are treated as internally homogeneous units, it is consistent to draw information from one local area and apply it to a broader region through extrapolation. To a large extent, this methodology underlies much of what is currently known about the Malden Plain

Mississippian. Based on my review in Chapter 3, it is apparent that our understanding of this record is composed of a conceptual patchwork, based on pieces of a developmental sequence derived from a wide area, only a few elements of which are actually known on the Malden Plain. This has created an impression that a great deal more is known about the Malden Plain Mississippian than is actually the case.

Difficulties can be expected to arise when attempting to employ current interpretive frameworks as evolutionary descriptions. One reason is that these frameworks were created primarily for the purpose of chronology building and have a strong stylistic component. Additional problems arise because the scenario of chronological developments for the early, middle, and late Mississippian are derived from vastly different areas: the Malden Plain, the Cairo Lowland, and the Memphis area respectively (see Figures 5 and 6). There is no reason to assume that developments in the Cairo Lowland are at all similar to those on the Malden Plain. Significant differences among areas are expected, especially when functional variables are considered.

The research questions addressed here follow two directions. First, and critical to any historical study, are questions of chronology. The second set of questions addresses implications derived from a materialist perspective when analyzing archaeological materials at the scale of assemblage. Models regarding settlement patterns and artifact variation that have been generated for regions adjacent to the Malden Plain are routinely applied to this area in the absence of supportive data. This research considers these models to ascertain the degree to which they are appropriate to the Malden Plain.

Research Questions

Chronology

The extent to which historical questions can be addressed depends in part upon the degree of chronological resolution. Currently, only three periods are recognized during the Mississippian in the Central

Mississippi Valley: an early period (A.D. 700-1000), which includes "emergent" Mississippian materials, a middle period (A.D. 1000-1350), which includes the majority of "classic" traits outlined in Chapter 2, and a late period (A.D. 1350 - 1650). In relying on this chronology, I do not consider these periods to be internally homogeneous units. They merely reflect the resolution with which the chronology is currently understood. The early part of the sequence is not considered here because I am not concerned with origins, and the "Mississippian" status of materials dating to this period is debatable (Dunnell and Feathers 1986). Since the concept of Mississippian was formulated on the basis of its fully developed "classic" features, middle and late period remains provide the least ambiguous starting point.

The chronology for the northern Central Mississippi Valley is rather peculiar. Middle period Mississippian materials are recognized throughout the region but the area is believed to have been abandoned by A.D. 1350 (Williams 1982; Morse and Morse 1983). Consequently, to address the late period, one must address the Vacant Quarter Hypothesis (Williams 1982). As originally formulated, the Vacant Quarter Hypothesis accounted for the apparent lack of late period settlements in the Cairo Lowland and areas along the Mississippi River in the northern reaches of the Lower Mississippi Valley (Williams 1982). Since then, the areas affected by "abandonment" have expanded to include both the Eastern and Western Lowlands. While there was no direct evidence from the Eastern Lowlands to bear on this hypothesis, it is likely that the area was included in light of supporting evidence for abandonment of the Powers Phase (Price 1978; Price and Griffin 1979).

Explanations for abandonment have been suggested, but none are particularly compelling, and they fail to account for all areas affected. For example, Morse and Morse (1983) suggest ecological reasons. Evidence from the Lower St. Francis drainage (P. Morse 1981) and the Memphis area (Morse 1973) indicates that substantial nucleation of local populations occurred during the late period. However, the braided-stream surface topography of the Eastern and Western Lowlands

could not support large population aggregates. In light of the convincing account of these variables provided by Price (1978) for the Western Lowlands this was probably a determinant for settlement size and distribution in the Eastern and Western Lowlands. However, it does not apply for the Cairo Lowland. Nor does this explanation account for why local population nucleation was imperative. Williams (1982) suggests that abandonment was due to a breakdown of the elite power structure in the area, but this explanation simply begs the question of cause and does not explain why such a breakdown may have occurred.

Recently, the Vacant Quarter Hypothesis has been contested as applied to the Cairo Lowland (Lewis 1982, 1984, 1986). Lewis (1984) argues two critical methodological issues. First he points to interpretive biases of radiocarbon dates. Radiocarbon dates from large fortified sites, occupied for extensive periods of time and representing complex depositional environments, require more precise and accurate determination than are currently available to assess the terminal age of occupation at these locations. Current practices of converting directly from radiocarbon years to calendrical dates, using the average date as the "real" date while ignoring standard deviations, or discarding dates that do not support existing interpretations, are not acceptable for dating the abandonment of a region.

Lewis (1984) also argues how biased application of stylistic cross-dating has created the appearance of an abandoned region. The Cairo Lowland, situated in the northernmost part of the Lower Mississippi Valley, shared stronger material culture similarities with the Tennessee-Cumberland valleys of western Kentucky than with the rest of the Lower Mississippi Valley. "Viewed from the Memphis subarea, the region may seem to lack many of the major diagnostic ceramic types of the late Lower Valley, but this simply reflects different cultural ties, not that the region lacks a late prehistory" (Lewis 1984:14). He goes on to argue that the temporal distributions of specific ceramic types in the Cairo Lowland are at variance with the distribution of those types in the Memphis subarea.

Although the Malden Plain lacks a substantial absolute dating record, similar arguments can be made regarding the effects of spatial patterning in ceramic styles. The Malden Plain experienced a relatively isolated prehistoric sequence. This is particularly evident in Woodland Period materials (Dunnell and Feathers 1986; Williams 1954), but is also reflected in the early European settlement of the region as well. There is no reason to expect that geographic isolation from the rest of the Lower Valley, as reflected in the spatial and temporal distribution of ceramic styles, was any less important during Mississippian times.

On a substantive level, many of the horizon markers identified for the late period in the Memphis subarea occur in the Malden Plain. Morse and Morse (1983) recognize them, but maintain the Vacant Quarter notion. They contend that the region was abandoned but continued to be used as a trade corridor. Thus, late period artifact styles should be found in the context of temporary encampments.

Wholesale prehistoric abandonment of a once densely populated region requires the consideration of many factors. Such conclusions are premature and there are several compelling reasons to address the question of abandonment for the Malden Plain. First, so little work has been conducted that an informed determination cannot be made one way or the other. At the outset of this research, knowledge of the Mississippi record for the Malden Plain is far from impressive. Williams' (1954) surface survey included seven sites and his interpretations regarding both the temporal placement and the temporal range of these materials has been extensively revised (D.Morse 1977, 1982; Morse and Morse 1983; cf. Phillips 1970). Subsequent fieldwork includes four additional sites. The work of Moselage (1962) at Lawhorn, Marshall (1965) at Marrett (referred to as Cockrum's Landing in Williams' study), and Morse and Morse (1980) at Zebree constitutes the total excavation record. The controlled surface collection of Rich Woods by Leeds (1979) was methodologically oriented, and produced little in the way of substantive results. Ongoing research at the Langdon site (Dunnell 1984a, personal communication), a St. Francis

type settlement, suggests a substantial Middle Mississippi occupation that may have persisted into the late period. Consequently, the Malden Plain should not be included within the Vacant Quarter Hypothesis merely by extrapolation.

Second, it is important to pursue whether the Malden Plain was abandoned because evidence from the Memphis subarea--the Lower St. Francis (Parkin Phase) and the area directly east along the Mississippi (Nodena Phase)--is inconclusive. Morse and Morse (1983) contend that so little is known about the earlier sequence in that area because it is masked by the archaeologically complex record of the late period. Nucleation of local populations is reasonably well documented for the Parkin area (P. Morse 1981); however, nucleation of local populations should not be confused with population increase or influx. No concrete evidence is presented for population intrusions into the Memphis subarea. Morse and Morse postulate that Bell Paste ceramics did not become prominent in these areas until after AD 1350-1400, and is "another development of the Cairo Lowland Phase that was apparently transferred south with population movement" (1983:278-9). This evidence is inconclusive, particularly when Bell Paste can be explained by technological changes in ceramic firing regime and does not require a migration. This also ignores the fact that Bell Paste is highly variable and more prominent in the Memphis subarea than in the north.

Third, there have been few attempts to evaluate hypotheses other than abandonment of the northern Lower Mississippi Valley. Lewis (1984) presents compelling methodological arguments against the Vacant Quarter Hypothesis, and in the context of his arguments, several alternatives are suggested. Given the interpretive biases of the radiocarbon record, he suggests that the Vacant Quarter Hypothesis could be the archaeological manifestation of population disruption at a slightly later (late 16th century) date, caused by the introduction of European diseases. This is compatible with other models that consider the impact of pandemics caused by the introduction of infectious diseases on virgin host populations (Dobyns 1983; Ramenofsky 1988). In fact, it is important to recognize that the distribution of late

1B. Late Mississippi period sites similar to those identified in the Memphis subarea do not occur on the Malden Plain, and some other means of explanation must be sought to account for a low visibility archaeological record for the late period.

This alternative generates another set of questions that must be addressed. These questions pose alternative historical developments on the Malden Plain, and must be evaluated before the region can be considered abandoned.

2a. Given a research bias in favor of large settlements (Lewis 1984; Morse and Morse 1983), whatever pressures affected demographic shifts in the south to cause nucleation could have been absent or had different effects (e.g., causing settlement dispersion) on the Malden Plain. In this case, late period artifact styles would appear in low frequencies in the contexts of small dispersed settlements, perhaps mistakenly identified as temporary encampments.

2b. Given that there are so few dated Mississippian components on the Malden Plain, the assignment of remains is based solely on styles identified as "late" further south. If those styles do not occur in the North, typological dating would lead to the erroneous conclusion that no late period remains occur there either.

2c. Given that the above alternatives are not mutually exclusive, it is possible that the poor visibility of the late Mississippi period archaeological record is due to a combination of these two factors.

2d. There is no late period Mississippi on the Malden Plain.

Settlement Patterns

Considerable variation is recognized among Mississippian settlements both within and between regions (e.g., Morse and Morse 1983; Muller 1983, 1986a; Smith 1878; Steponaitis 1986). Settlement pattern data are used to support inferences regarding subsistence (Smith 1978b, 1985), degree of cultural complexity, and regional integration (Braun and Plog 1982; Pebbles and Kus 1977; Prentice 1983, 1985; Steponaitis 1978). Specific interpretations are usually controversial (Muller 1984, 1986b; Pauketat 1987), and understanding settlement patterns, both empirically and theoretically, is therefore

Mississippi period occupation is confined to areas with large nucleated settlements with European trade goods. Such an association imposes the *appearance* of continuity between the prehistoric/historic boundary.

Finally, it is important to consider the late Mississippi for the Malden Plain in light of the theoretical issues presented in this research. Historical developments on the Malden Plain can be expected to deviate from adjacent areas, especially when functional parameters are considered. There is no reason to expect historical developments to be uniform throughout the entire Central Mississippi Valley. When an inappropriate chronological description is imposed on a poorly researched area, it is assumed that historical developments and therefore time markers for the late Mississippian must be uniform. When these developments are not identified, then the archaeological record must not represent late Mississippian land use. Since there are clearly *middle* Mississippi materials in these areas, the "logical" conclusion is that the region was abandoned. In short, the Vacant Quarter Hypothesis is an artifact of an essentialist framework.

For the reasons outlined here, developing a Mississippi chronology for the Malden Plain is critical. Hypotheses regarding prehistoric abandonment should be considered premature until the methodological and substantive issues can be fully addressed. Although this research does not provide a complete assessment of all the relevant issues, the late prehistory of the Malden Plain is approached in two parts so that alternatives can be addressed.

First, given that so little research has been conducted in the Malden Plain, has this area been included in the Vacant Quarter because of sampling error? Or, is it a function of the archaeological record itself. Consequently, two alternatives are generated:

1A Late Mississippi period settlements similar to those identified further south do occur on the Malden Plain but have gone unrecognized due to a lack of research in this area.

This alternative generates a search for large nucleated settlements similar to those recorded and described for the Memphis subarea. Alternatively,

critical if archaeologists are to address social processes commensurate with the evolution of agricultural systems.

Settlement pattern changes during the middle and late Mississippi periods are interpreted as indications of increasing consolidation of independent chiefdoms with increasing emphasis on protection of the civic-ceremonial center (Morse and Morse 1983:237). Although the early part of the middle period is poorly known, it is suggested that Mississippian populations were primarily dispersed in small villages, hamlets and farmsteads. By about A.D. 1150

villages became increasingly associated with the ceremonial center which became a civic-ceremonial center. Villages became stockaded with rows of houses and the ceremonial component inside. Protection of the ceremonial center and the population became increasingly important. . . . By A.D. 1250 a clear hierarchy of sites had come into being: a civic-ceremonial center with mounds, associated with palisaded villages, in turn associated with a dispersed farmstead pattern. (Morse and Morse 1983:266)

This scenario is based on data from the Western Lowlands, specifically the Powers Phase (Black 1979; Price 1978; Price and Griffin 1979; Smith 1976) and the American Bottom (Fowler 1978; Milner et al. 1984).

There are clearly differences between the settlement patterns described for the Powers Phase (Price 1978) and the American Bottom (Fowler 1978). They are, however, quite similar in structure, concept, and interpretation (Table 5). In both models, settlement size (defined either in terms of number of domestic structures or extent of domestic debris) correlates with structural features, specifically mounds and fortifications, and presumably other variables including public structures, cemeteries, and population size.

Definition of the settlement pattern hierarchy in terms of structural features is explicit:

The size range of sites, . . . is obviously a direct result of variation in the number of site elements, such as mounds, courtyards, structures, pits, burials and walls. (Price 1978:214)

Physically, these sites [in the American Bottom] vary in size and internal characteristics. I have divided the sites

into four categories, based upon their size and relative complexity (Fowler 1978:468).

Table 5: Comparison of Mississippian Settlement Pattern models generated for the Powers Phase (Price 1978) and the American Bottom (Fowler 1978). Settlement sizes given in hectares.

RANK	<u>Powers Phase</u>			<u>American Bottom</u>		
	<u>Size</u>	<u>Mounds</u>	<u>Forti- fication</u>	<u>Size</u>	<u>Mounds</u>	<u>Forti- fication</u>
1	4.6	4	+	80/800 ¹	>100	+
2	.6 -1.2	0	+	>50	>1	+
3	.1	0	0	?	1	?
4	<.1	0	0	?	0	0 (?)

¹Size estimates for Cahokia vary, depending upon criteria used. Fowler estimated 80 hectares within the palisade, with the settlement covering over 800 hectares total.

Price and Fowler illustrate how higher order settlements are regularly spaced in relation to lower order settlements and argue that this pattern reflects a hierarchical system integrating Mississippian settlements socially, economically, and politically.

Thus, the distribution of these different types of sites in the American Bottom suggests a hierarchical relationship of the communities involved in the settlement system. Cahokia was the major and dominating community. It was centrally located in the American Bottom both geographically and in terms of transportation routes. Thus, it probably served both as the major population center and as the center of distribution and control (Fowler 1978:472).

I view the Powers phase as a sociopolitical system that was integrated on two main levels--the village and civic-ceremonial center. Villages apparently served as a central place or base of operations through which the resources of the various broad sand ridges were exploited. Villages served as the loci for local ceremonial mortuary services as well as fortified refuges from potential enemy attack. They

apparently served as centers with public structures, some of which were used for storage of foodstuffs that may be indicative of redistribution. Powers Fort not only served as a dwelling place for its inhabitants, but also as a central place or base of operations for ceremonial activities involving mounds, probably for the entire phase (Price 1978:229).

The most obvious difference between the settlement patterns of the Powers Phase and American Bottom is one of scale (Table 5). Both models have a single settlement orders of magnitude larger than surrounding settlements of the next mean size, but the difference between the two first order settlements is substantial. Furthermore, the Powers Phase has only one settlement with mounds, Powers Fort. In the American Bottom there are second- and third-order mound centers. Whether these differences are only differences of scale is unclear. The settlement *systems* or, the relationship between settlements, are interpreted by each author in virtually identical terms. Consequently, scale is the only remaining alternative accounting for the differences between Powers and American Bottom settlement systems. This is an important feature to Mississippian settlement patterns, especially in regard to generating expectations for Mississippi settlements on the Malden Plain.

Since both the Powers and American Bottom settlement patterns are similar in structure, they generate the same expectations for the Malden Plain. Since the system can vary in scale, it is not possible to generate expectations for size. Instead, a set of ordinal relationships, correlating with the presence or absence of associated site features, (e.g., number of mounds and fortifications) can be assumed (Table 6). Settlements associated with mounds should be fortified and larger than settlements without mounds. Settlements without mounds may or may not be fortified, but should be smaller than those with mounds.

Table 6: Rank order of settlement size and associated features expected for the Malden Plain.

<u>Relative Size</u>	<u>Mounds</u>	<u>Fortifications</u>
1	>1	+
2	1	+
3	0	-
4	0	-

Artifact Assemblages

The Malden Plain Mississippian record shares many features with the rest of the Central Mississippi Valley, but several aspects are distinctive (Dunnell 1983, 1985a; Klinger 1982; D. Morse 1977; Morse and Morse 1983; Williams 1954). Most artifact analyses focus on ceramics, so distinctions in this class of artifacts are most obvious. For example, throughout most of the Central Valley, ceramics of the Woodland period are tempered with coarsely crushed clay or grog, while on the Malden Plain they are tempered with sand. Early Mississippian period ceramics on the Malden Plain are characterized by much higher frequencies of red slipping on vessel interiors (referred to as the Varney Red Filmed type) than other areas of the Central Valley.

Although my research does not address the Woodland or early Mississippian periods, there is every reason to expect that middle Mississippian ceramics would display divergences as well. Such divergences have not been formally recognized. If significant stylistic divergences are found, this has implications for the manner in which Malden Plain chronology has been interpreted.

Divergences recognized for Malden Plain artifact assemblages are expected to be both stylistic and functional. Because current ceramic typologies are primarily stylistic in content, functional variability is likely to be poorly expressed in them. Recently, technological studies of Mississippian ceramics have been conducted (Million 1974, 1975, 1980; Million and Morse 1980; Steponaitis 1983). Million's replications are directed toward determining the basic qualities of

Mississippi Valley clays and the relative advantages of shell temper over alternative tempering materials. Steponaitis' (1983) work includes more sophisticated kinds of tests. More recent studies indicate that the field of ceramic technology is expanding at a rapid rate (e.g., D.Braun 1982; Bronitsky 1986; Bronitsky and Hamer 1986; Dunnell and Feathers 1986; Feathers, in press). These studies guide the selection of relevant technological variables in my research.

Only preliminary efforts have focused on the range of variation in ceramic industries at the scale of assemblage (Dunnell and Feathers 1986). Consequently, the range of variation among Mississippian ceramic industries at the scale of assemblage is poorly known. In the absence of such knowledge, it is impossible to generate specific hypotheses regarding technological variables of Malden Plain Mississippian ceramics. My research seeks to correct this situation by exploring functionally relevant variables at the scale of assemblage using materials that have been derived from well sampled contexts.

Because ceramics are abundant and possess potentially greater chronological information than any other class of artifacts, they have been the focus of analysis and the basis upon which most interpretive and chronological frameworks have been formulated. Lithic assemblages have received much less attention and, as a result, questions regarding this component of the artifact assemblages are exploratory. Lithic assemblages are a source of a great deal of functional information. Specific features of Mississippian lithic assemblages are routinely reported, including projectile point styles (Morse 1969; Williams and Brain 1983), the exploitation of non-local lithic materials (e.g., Butler and May 1984), and occurrence of a distinctive microlithic technology (Mason and Perino 1961; D. Morse 1974; Morse and Sierzchula 1980; Perino 1960; Yerkes 1983, 1987). While some have argued that Mississippian stone tool technologies were "specialized" (e.g., Morse 1980), it is unclear just what is implied by the term "specialization" (cf. Muller 1986b; Yerkes 1986). Furthermore, substantial evolutionary claims are made on the basis of these features. Since these studies do not focus on patterning and variation at the scale of assemblage, I

will examine these evolutionary claims in the context of technological analyses.

Stylistic changes identified for projectile point types (Morse and Morse 1983; Williams and Brain 1983) are used to address chronological questions. However, because of the potential of stone tool technology to provide functional information, technological variation at the scale of assemblage is emphasized.

Central to this thesis is the importance of functional traits. Because the role of empirical variation in evolutionary processes is so important, these traits are best examined at the scale of assemblage. Consequently, a consideration of functional aspects in both the ceramic and lithic assemblages is emphasized here. Because these aspects of the Mississippian archaeological record have been ignored, the range of variation is at this time unknown. Nevertheless, it is expected that the variability expressed along these parameters will be non-random.

Data Requirements

The research questions outlined above address Mississippian chronology, settlement patterns, and functional variation in artifact assemblages. These questions require assemblage scale data that can be attributed to specific Mississippian occupations. To address both late Mississippi materials and settlement variability on the Malden Plain, additional information is required on the settlement context of specific materials.

Chronology

The goals of this research are two-fold: 1) to obtain a better understanding of the range of stylistic variation among Malden Plain Mississippian artifact assemblages and the degree to which the temporal distribution of styles defined for areas outside the Malden Plain can be applied to this area; and 2) to determine the context of late Mississippi materials on the Malden Plain. To address both these questions, representative samples of artifacts are required. These

samples should represent as wide a temporal range of Mississippian occupations as possible. Thus, a relative chronology can be derived for the Malden Plain Mississippian. Incorporating as wide a temporal range as possible will enable an assessment of the degree to which Malden Plain Mississippian artifact assemblages diverge along stylistic dimensions from other areas of the Central Mississippi Valley. To address these chronological issues, further control over the absolute time record is critical.

Settlement Patterns

In the discussion above, I used Mississippian settlement pattern models to generate a set of expectations for Malden Plain settlements based on a correlation between settlement size and the presence or absence of structural features, particularly mounds and fortifications. Although there is an unfortunate bias in settlement studies toward recording sites with these features only, this information was used to sample appropriate sites. In taking this approach, it was necessary to document the settlement context of materials from sites with both mounds and enclosures, sites with mounds but without enclosures, sites with enclosures without mounds, and sites with neither mounds nor enclosures.

Functional Variability in Artifact Assemblages

The primary goal of this aspect of the research is to explore the range of functional variation in Mississippian artifact assemblages. This is a poorly understood topic and no specific expectations are generated. Nevertheless, to begin this exploration, representative samples of artifacts from well documented contexts are required. The degree of temporal control afforded by the data requirements from other aspects of this research will increase the likelihood of reaching this goal. This is important, because only with representative samples of artifacts ordered in time will it be possible to fully address the models discussed in Chapter Two.

Available Data

In assessing the relevance of existing data, it is important to consider the manner in which they have been collected, analyzed and presented in the literature.

For the past 35 years, Lower Mississippi Valley chronology has been based on the ceramic typology developed by Phillips, Ford, and Griffin (1951). The utility of this typology is unquestioned as it has provided the framework for chronological studies in many local areas and has withstood repeated tests. The authors were clear regarding the chronological purpose for devising this typology, and their seriations provided the first test of historical significance for their types. So effective are these types for providing temporal control that subsequent chronological efforts have focused primarily on establishing absolute time-ranges for them.

The original Lower Mississippi Valley Survey (LMVS) typology was based on materials collected south of the Malden Plain, as the northern limits of that survey extended only to the Lower St. Francis drainage. Subsequently, Williams (1954) conducted a study of Mississippi materials in Southeast Missouri. Although his primary interest was on materials in the Mississippi Valley proper, his research led him to the Malden Plain as well. He noted important differences between materials from the Malden Plain and those to the east. This led him to establish additional pottery types for the Malden Plain to account for those differences. His results were incorporated into a later and much larger scale synthesis published by Phillips (1970), which constitutes the only major revision to the original LMVS ceramic typology.

Phillips' (1970) refinements of the original typology are detailed and show a profound appreciation for the range of variation in Lower Mississippi Valley ceramics. However, these same refinements lack the clearly stated purpose of chronology development characteristic of the initial study. Assignment of Varney Red Fired as a variety of Old Town Red provides a case in point. Williams (1954) defined Varney Red

Filmed as a type characteristic of early Mississippi ceramics on the Malden Plain. Both Varney Red Filmed and Old Town Red are red slipped and shell tempered, but based on descriptions of the two types, they share little in the way of technological attributes, paste characteristics, temporal distribution, or vessel forms (Million and Morse 1980; Morse and Morse 1983; Dunnell and Feathers 1986).

Despite the few additions to the original LMVS ceramic typology, chronological studies for the Malden Plain have progressed little beyond Williams' (1954) initial examination of this area. To be sure, contributions have been made, but they have been limited to establishing absolute temporal measurement for particular occupations (Dunnell 1982b; Klinger 1982; Morse, Wolfman, and Haas 1980; Moselage 1962). As current vogue would have it, most of these absolute dates are from early Mississippi contexts. Six occupations are represented for the entire Malden Plain archaeological sequence. These dates include a Woodland occupation, (Morse, Wolfman and Haas 1980), three early (Big Lake) Mississippi occupations, (Dunnell 1982b; Klinger 1982; Morse, Wolfman, and Haas 1980), and two middle Mississippi contexts (Morse, Wolfman and Haas 1980; Moselage 1962).

Recent contributions are noteworthy in a larger sense because Williams' initial temporal interpretations have been extensively revised (Marshall 1965; Morse 1977, 1982; Morse and Morse 1983). Williams was the first to recognize early, middle and late subdivisions for the Mississippian sequence in the northern Lower Valley, but none of the areas he investigated appeared to have any appreciable time-depth beyond a single phase. Investigations at early Mississippi period occupations such as Robards, Zebree, and Mangrum (Dunnell 1982b; Morse and Morse 1980; Klinger 1982) have changed this. Early occupations are now regarded as Big Lake Phase (Morse and Morse 1980; Dunnell and Feathers 1986) while the Malden Plain Phase, which Williams identified as early, is considered contemporary (or perhaps the same as) the middle period Lawhorn Phase (Marshall 1965; Morse 1982).

Excavated materials from middle Mississippi contexts do exist from Zebree (Morse and Morse 1980), Lawhorn (Moselage 1962) and Marrett

Table 7: Radiocarbon Dates from Mississippian contexts on the Malden Plain from Missouri and Arkansas. Calibration curve based on data from Stuiver and Pearson (1986; see also Stuiver 1982) using the computer program written by Stuiver and Reimer (1986).

Lab No.	Radiocarbon Age			Maximum Age	(Intercepts)	Minimum Age
TX-3074 (Mangrum)	990 ± 60	one	σ** cal AD	990	(1021)	1150
			cal BP	960	(929)	800
		two	σ** cal AD	899	(1021)	1170
			cal BP	1051	(929)	780
TX-3073 (Mangrum)	930 ± 50	one	σ** cal AD	1024	(1043 1105 1112 1150)	1166
			cal BP	926	(907 845 838 800)	784
		two	σ** cal AD	1010	(1043 1105 1112 1150)	1220
			cal BP	940	(907 845 838 800)	730
RL-1418 (Robards)	1110 ±130	one	σ** cal AD	780	(900 902 953)	1020
			cal BP	1170	(1050 1048 997)	930
		two	σ** cal AD	660	(900 902 953)	1210
			cal BP	1290	(1050 1048 997)	740
M-1158 (Lawhorn)	750 ±150	one	σ** cal AD	1160	(1267)	1389
			cal BP	790	(683)	561
		two	σ** cal AD	990	(1267)	1440
			cal BP	960	(683)	510
M-1156 (Lawhorn)	625 ±150	one	σ** cal AD	1260	(1303 1362 1377)	1430
			cal BP	690	(647 588 573)	520
		two	σ** cal AD	1045	(1303 1362 1377)	1627
			cal BP	905	(647 588 573)	323
M-1157 (Lawhorn)	375 ±150	one	σ** cal AD	1410	(1477)	1660
			cal BP	540	(473)	290
		two	σ** cal AD	1280	(1477)	1950
			cal BP	670	(473)	0*
SMU-443 (Zebree)	1159 ± 61	one	σ** cal AD	785	(886)	963
			cal BP	1165	(1064)	987
		two	σ** cal AD	690	(886)	1000
			cal BP	1260	(1064)	950
SMU-445 (Zebree)	1133 ± 67	one	σ** cal AD	810	(893)	982
			cal BP	1140	(1057)	968
		two	σ** cal AD	717	(893)	1020
			cal BP	1233	(1057)	930

Table 7: (Continued)

Lab No.	Radiocarbon		Maximum Age	(Intercepts)	Minimum Age	
SMU-453 (Zebree)	1130 ± 69	one σ**	cal AD	810	(894)	985
			cal BP	1140	(1056)	965
		two σ**	cal AD	715	(894)	1020
			cal BP	1235	(1056)	930
SMU-411 (Zebree)	1090 ± 54	one σ**	cal AD	890	(968)	1003
			cal BP	1060	(982)	947
		two σ**	cal AD	814	(968)	1020
			cal BP	1136	(982)	930
SMU-422 (Zebree)	1032 ± 48	one σ**	cal AD	974	(1006)	1023
			cal BP	976	(944)	927
		two σ**	cal AD	894	(1006)	1041
			cal BP	1056	(944)	909
SMU-450 (Zebree)	1022 ± 58	one σ**	cal AD	974	(1012)	1029
			cal BP	976	(938)	921
		two σ**	cal AD	890	(1012)	1158
			cal BP	1060	(938)	792
SMU-426 (Zebree)	1002 ± 55	one σ**	cal AD	986	(1018)	1036
			cal BP	964	(932)	914
		two σ**	cal AD	899	(1018)	1160
			cal BP	1051	(932)	790
SMU-460 (Zebree)	938 ± 67	one σ**	cal AD	1016	(1040)	1169
			cal BP	934	(910)	781
		two σ**	cal AD	980	(1040)	1240
			cal BP	970	(910)	710
SMU-457 (Zebree)	897 ± 60	one σ**	cal AD	1031	(1160)	1218
			cal BP	919	(790)	732
		two σ**	cal AD	1010	(1160)	1260
			cal BP	940	(790)	690

**1 sigma = square root of (sample std. dev.²+ curve std. dev.²)

2 sigma = 2 x square root of (sample std. dev.²+ curve std. dev.²)

0* represents a "negative" age BP

1955* denotes influence of bomb C-14

(1965). Some of these materials are useful for chronological purposes, especially those from Zebree and Lawhorn where there are associated radiocarbon dates (Table 7). These excavations may also provide data on the settlement context from which their respective materials were recovered. However, analyses do not provide the kind of functional information on artifact assemblages that is required here.

The Lawhorn site covers approximately four acres (1.6 hectares) in size. Portions of 3 house structures, a plaza area, and cemetery are reported from the excavations but there is no corresponding analysis on the spatial relationships of these areas (Moselage 1962). Morse (1980, 1982) refers to Lawhorn as a "village" of relatively short occupation, based on the shallow midden reported there. Moselage does report relative frequencies (in percents only) of ceramic types based on the LMVS ceramic typology (Table 8). The radiocarbon date associated with this assemblage could provide some indication of directional changes in the ceramic sequence for the earlier part of the middle Mississippi period.

Table 8: Sherd assemblage reported from the Lawhorn site by Moselage (1962:25; Table 2).

	Percent of Total	Percent of Decorated
Neeley's Ferry Plain	93.1*	
Total Decorated	1.3	
Wallace Incised**		13
Unidentified Incised		24
Nodes		2
Old Town Red		57
Carson Red on Buff		3
Nodena Red and White		1

*Moselage states that "the shell tempered series was 98.7% Neeley's Ferry Plain and 1.3% decorated in some fashion" (1962:25). The reason for the discrepancy between this statement and the 93.1% he gives in Table 2 is unclear unless it is an error.

**Photographs suggest Manly Punctated rather than Wallace Incised.

The settlement context of the materials from Marrett (Marshall 1965) is poorly understood from the published report. Although there are no radiocarbon dates associated with this assemblage, Marshall does provide frequencies for LMVS ceramic types (Table 9).

Table 9: Sherd assemblage from the Marrett site reported by Marshall (1965).

Type	Count
Neeley's Ferry Plain	303
Red Filmed*	37
Bell Plain	2 (1 effigy)
thick	22

Morse (1980) describes the middle Mississippi occupation at Zebree as a "hamlet". It covers approximately 0.4-0.5 hectares and is composed of three houses, four burials, and a midden concentration. The occupation is radiocarbon dated and it appears earlier than Lawhorn. Frequencies of ceramic types are not available so it is impossible to identify frequency changes in the ceramic sequence for the portion of the sequence between Zebree and Lawhorn.

While the above three studies provide useful information, they are also limited. The settlement context for the materials from Lawhorn and Marrett are not clearly delineated and the ceramics are described solely by Lower Mississippi Valley Survey ceramic types.

More detailed and locally specific chronological studies of the Malden Plain have been conducted (Benson 1975; Sheu 1981). Both studies focus on early Mississippi materials and they are not directly relevant here. Potentially, the thermoluminescent dating project currently in progress will provide important data for Malden Plain chronology (Dunnell and Stobe, in progress).

Since temporal placement cannot be determined *a priori*, the record must be sampled to allow a maximum chance for the inclusion of late

materials. As indicated above, the presence of late period artifacts does not necessarily indicate permanent occupation of the region during that time. Thus, information is required for the archaeological context of those materials to assess their settlement context.

Suitable information generated in the context of other on-going field projects does exist for the Langdon site, a large fortified Mississippian site (Dunnell 1984a). Data from this research pertains to site structure. In addition, non-selective, surface collections with fine spatial control have been conducted and can provide some indication for the range of artifacts present at this site. However, these collections have been conducted primarily along transects, a sampling strategy useful for obtaining information on site structure, but not necessarily on the estimation of artifact population parameters (Jermann 1981; Plog, Plog, and Wait 1978).

Second, a number of large surface collections, documented only to site, do exist for the area. While these collections are not intentionally biased, biases must be assumed to exist. Most of these assemblages have been evaluated elsewhere (Benson 1975; Sheu 1981) and they appear to encompass mainly early Mississippian materials.

A final source of extant archaeological data for this region exists in the Missouri Archaeological Survey site inventory files. These sites have been recorded over a long period of time by many different people who provided highly variable information. Consequently, the resolution of these data is coarse at best. Nevertheless, it was possible to use these data to derive a list of potentially relevant sites that are suitable for my research questions.

In summary, available data from Malden Plain Mississippi contexts are insufficient to address the questions outlined above and must be augmented with additional samples. Recent research biases have favored early Mississippian materials such that these data now dominate extant knowledge for the Malden Plain archaeological record. Fortunately, radiocarbon dates are available from middle Mississippi contexts that can provide guidelines to interpret additional materials.

Chapter 5

FIELD STRATEGY AND DATA ACQUISITION

Quantifiable and representative artifact assemblages are required to encompass the range of functional and stylistic variation for the Malden Plain Mississippian record. Furthermore, to address hypotheses about the character of late Mississippi occupation and Mississippian settlements of this region, the archaeological and settlement context of specific materials must be documented. These particular needs require specific sampling considerations. Underlying most of the programmatic statements on the relative advantages and disadvantages of various sampling designs (e.g., Ammerman 1981; Binford 1964; Mueller 1975; Plog, Plog, and Wait 1978; Redman 1974) lies the goal of obtaining representative samples for the purpose of estimating population parameters (Nance 1983).

The ability to estimate population parameters is complicated by the Malden Plain archaeological record where the pertinent archaeological record is expected to occur as surficial palimpsests in the modern plowzone (Binford 1982). The isolation of components and determination of settlement context thus require mapping artifact distributions (e.g., Beck 1984) and this necessitates denser sampling schemes than simple parameter estimation (Jermann 1981; Jermann and Dunnell 1979). Consequently, the choice of specific sampling locations is conditioned by these requirements, which further interact with field contingencies such as access, crop conditions, and surface visibility.

Although it is recognized that the underlying structure of the archaeological record is continuous, my research is directed toward dense artifact clusters, commonly referred to as "sites" (Dancey 1974 1981; Dunnell and Dancey 1983; Thomas 1975). This will ease the burden of obtaining quantifiable assemblages that can be assigned to a given occupation in addition to maximizing the existing data which was collected in site oriented contexts.

Sampling Strategy

Although there are tremendous research biases in favor of large settlements, I rely on them for two reasons. First, the Mississippi chronology is currently understood on the basis of materials from them. Thus, relying on data from sites, particularly sites that have already been recorded, allows the results of previous efforts to be incorporated into the current analysis. Second, my research questions require information on the archaeological and settlement contexts of specific materials, data which are best derived from large site contexts.

Choice of Site Sample

Because Mississippian sites are large, only a small number of them could be examined. Recorded sites were stratified according to settlement features and kind of artifacts reported. Recorded site information was taken from three sources: Williams' (1954) survey work described in his dissertation; his later survey efforts published by Phillips (1970: Fig. 447); and the Missouri Archaeological Survey (MAS) site files for Dunklin and Stoddard Counties. The MAS site files incorporate Williams' survey results and include the most detailed information on settlement features. Since excavations have been reported for only three Mississippian sites on the Malden Plain, these data could not be relied upon at this juncture.

Thirty sites were identified with predominantly Mississippian components (Table 10). Identification of Mississippian sites is usually based on the presence of shell tempered pottery and it was suspected that this list included many which date to the early period. Fortunately, collections available at the University of Washington, together with information provided on the presence of mounds or enclosures, enabled a preliminary assessment of sites that contained predominantly early materials, and identification of "classic" Middle Mississippian components.

Two additional considerations were made in stratifying the site information. First, it was necessary to sample the archaeological record in such a way as to allow maximum chance of including late period materials. The thirty sites were thus stratified according to general estimates of the time period for which they could potentially provide information. Three categories were recognized: 1) sites listed in the MAS files for which only Mississippian components were recorded; 2) sites listed in the MAS files for which there were collections at the University of Washington to enable a distinction between early (e.g., Big Lake) and later materials; and 3) sites for which late period attributes were recorded, from either the MAS site files, the collections, or published research. These attributes include those identified by Morse and Morse (1983) as horizon markers of the late Mississippi period (e.g., Nodena type projectile points, fortified settlements, and specific pottery styles).

Table 10: Sites recorded in the Missouri Archaeological Survey site files with Mississippian components.

<u>Unspecified Missis-</u> <u>si ppian components</u>	<u>Mississippian components</u> <u>(UW collections)</u>	<u>Late Mississippi</u> <u>attributes reported</u>
DU 12 ¹	DU 2 (M)	DU 1
DU 16	DU 4 (M)	DU 37
DU 19	DU 5 (E)	DU 49
DU 24	DU 29 (E,M)	DU 203
DU 167	DU 30	DU 211
DU 168	DU 52	DU 219
DU 188/118	DU 53	SO 3
DU 194	DU 54	SO 166
DU 232	DU 55	
DU 252	DU 150	
DU 253	DU 175	
	DU 166	

¹DU 12 is the Marrett site, excavated by Marshall (1965) with a documented Middle Mississippi component.

The second sampling consideration involved acquisition of settlement data. As discussed in the previous chapter, Mississippian settlement pattern models generate specific expectations regarding relative settlement size (and their role in a regional hierarchy), based on the presence of mounds and fortifications. It was therefore necessary to obtain materials from sites with a variety of associated features, specifically mounds and enclosures. Consequently, sites with appropriate middle and possibly late Mississippi period components were then stratified using the key in Figure 8. Those sites with unspecified Mississippian components were excluded. A representative sample could not be drawn simply because all Mississippian sites are not known. By stratifying the existing site data in this manner, it would be possible to examine materials from as many potentially different kinds of settlement contexts as possible.

		Mounds	
		M+	M-
Enclosures	E+	I	II
	E-	III	IV

Figure 8: Key to classification of Mississippian sites for recorded settlement features.

Assignment of specific sites to their respective class required certain analytic decisions. For a number of reasons, information on the number of mounds is often contradictory. A site may have been

described by several people at various points in time during which some mounds could have been leveled. It is also possible that some mounds were misidentified. Thus, only the presence of mounds was used in the classification, not the number of mounds.

Although Thomas reported a small conical mound located just outside the County Line site enclosure, two surveys subsequent to his report (J. Williams 1964; S. Williams 1954) failed to confirm its presence. Either it was constructed from surrounding sediments and since leveled, or it was a natural rise that had been misidentified as a mound. Conical mounds are not regular features of Mississippi settlements, but ordinarily associated with Woodland Period mortuary sites. If there was a mound at County Line, it may well not have been associated with the Mississippi settlement. This issue cannot be resolved from survey records. Consequently, this site was assigned to the class defined by an absence of mounds and presence of enclosure.

Information on enclosures was even more limited in that identification of these features (e.g., moats or walls) depended on very early survey work (e.g., Thomas 1891, 1894), excavation records which are not available, or careful examination of aerial photographs which have not been routinely consulted in the past.

The survey records do not mention the presence of an enclosure at DU1 (Langdon), but the presence of this feature is known (Dunnell 1984, personal communication). Based on existing information for the Langdon and County Line sites, it is likely that their respective enclosures are not equivalent. Dunnell's research indicates that Langdon was surrounded by a moat and wall (personal communication). Thomas' description indicates that County Line was surrounded only by a moat (1894). This difference may be insignificant. On the one hand, there may have been a wall at County Line. On the other hand, the differences between moats with walls as opposed to those without may reflect variability within a single class. Since the presence of moats and/or walls is obtained through either early survey reports that may not have been consistent in distinguishing them, or aerial photographs that display only soil signatures, they are treated as a single class.

When a classification based on the presence or absence of mounds and enclosures is applied to the existing body of site data, all classes are represented (Table 11). Given the state of the record for both mounds and enclosures, coupled with the fact that a total inventory of Mississippian components for the Malden Plain could not be generated for this research, the results of my stratification efforts reflect current knowledge, not a representative sample of all Mississippian sites on the Malden Plain. At least one settlement from each class needed to be examined.

Table 11: Sites stratified according to the presence of mounds and enclosures.

Class I: Mounds Recorded; Enclosures Present

DU- 1* (Langdon) (Dunnell 1984a; Williams 1954)

Class II: Mounds Absent; Enclosures Present

SO-166* (County Line) (Thomas 1894; J. Williams 1964;
S. Williams 1954)

Class II: Mounds Recorded; Enclosures Absent

DU- 2 (Cummins) (Williams 1954; Phillips 1970)
DU- 4¹ (Holcomb) (Williams 1954)
DU- 52 (Ray)
DU-150 (David's Creek)
SO- 3 (Rich Woods) (Thomas 1894; Leeds 1981)

Class III: Mounds Absent; Enclosures Absent

DU- 29 (Pelts) DU-203*
DU- 30 (Watson) DU-211*
DU- 37* DU-219*
DU- 49* (Bishop)

*Late Mississippi period artifact styles reported.

¹possibly enclosed

It was expected that results from ongoing research at the Langdon site (Dunnell in progress) would provide information on this only known representative of sites with mounds and enclosures (Class I). Since information on the kind of artifacts, age, and settlement context of

this site would be forthcoming, I could concentrate my own field efforts on representatives from Classes II, III, and IV.

The County Line site was considered a high research priority for several reasons. It is the only site represented in Class II, enclosed sites without mounds, and it has a more northerly location. Furthermore, some information already exists for this site (Thomas 1894; J.R. Williams 1964), which presumably influences current interpretations. This site is one of only a handful of prehistoric sites for which early physical descriptions are available, and is one of only two enclosed Mississippian settlements so far recorded for the Malden Plain. While enclosed settlements are common to the middle Mississippi period in the Cairo Lowland, they appear to be a somewhat later phenomena in the Memphis subarea (Morse and Morse 1983). Since prehistoric populations on the Malden Plain shared many cultural affiliations with those to the south, potentially, County Line could contribute important information regarding the later part of the Malden Plain Mississippi sequence, whatever "later" happened to be.

There were many possible choices for the remaining two classes (III and IV), both defined by the absence of enclosures (Table 11). Higher priority was given to those sites for which collections exist (DU2, DU4, DU52, DU150, and S03 in Class III; and DU29, DU30, and DU 49 in Class IV). The Rich Woods site (S03) in Class III, was given a low priority. This site is unique, in both size, which is second only to Cahokia, and no doubt complexity. However, it has been completely leveled (Leeds 1979). The final decision on exact sampling locations lay in field conditions and access. Eventually, field work was conducted at County Line (S0166) in Class II, Cummins (DU2) in Class III, and Pelts (DU29) in Class IV. As noted above, information from a Class I site was anticipated from Dunnell's research at the Langdon site.

The Cummins site, assigned to Class III, (aka Kennett site cf. Phillips 1970; Williams 1954) was considered an ideal location. This site has a single mound that has not been leveled, and examination of aerial photographs indicated no evidence of an enclosure. Based on

expectations of Mississippian settlement pattern models discussed in the previous chapter, this site was judged to be relatively large, representing an "intermediary" or "second ranged" mound center. Prior observations indicated a village associated with a single mound (Williams 1954), so fieldwork was likely to produce a quantifiable artifact assemblage. Williams previous fieldwork had been inconclusive, and thus additional work would be particularly valuable. The Cummins site is also situated in a more westerly location, along the former Varney River. Collections from this site were available at the University of Washington. These collections are not large but include Mississippian period materials including projectile points regarded by Morse and Morse (1983) as diagnostic of the middle period.

Finally, the Pelts site (DU29) was also considered an important location for this research. No mounds had ever been reported there, even though survey reports indicated that the primary component was Mississippian (Phillips 1970). Collections from this site were available at the University of Washington. These materials had been obtained through surface collection and excavation by Mr. and Mrs. W. Davidson of Kennett, Missouri. The composition of this assemblage includes poverty point objects, sand tempered ceramics, early Mississippian (Varney Red Fired) ceramics, as well as middle Mississippian ceramics. Projectile points collected from this site also suggest Archaic, Woodland, and Mississippian affiliations. This was to be expected, particularly in light of the Pelts location along the Malden Plain escarpment.

Fieldwork Strategy and Tactics

Systematic controlled surface collection allows large areas to be covered at substantially lower cost than excavation procedures, while providing greater spatial coverage and representative samples of artifacts (Ammerman 1971; Ammerman and Feldman 1978; Dancey 1974a, 1974b; Hope-Simpson 1984; Knoerl and Versaggi 1984; Longacre and Graves

1978). For these reasons, I used such an approach to obtain both artifacts and settlement data in this research.

Recent studies show that the surface record does provide accurate spatial information at the scale of settlement, even in plowzone situations when careful collection procedures are followed (Binford et al. 1970; Healan 1972; Lewarch 1979; Lewarch and O'Brien 1981, 1982; McManamon 1984; Roper 1976; Trubowitz 1978; Redman and Watson 1970). This is an important consideration in light of the fact that the research questions generated in Chapter 4 require that the settlement context of materials be documented.

The Malden Plain archaeological record is ideally suited to the use of systematic controlled surface collection. As described in Chapter 3, the Malden Plain is late Pleistocene in age and there has been little subsequent deposition in the region. Consequently, most of the relevant archaeological record can be expected to occur on the surface. This aspect, coupled with the fact that approximately 90% of the area is currently under cultivation (Gurley 1979) yields a highly visible and accessible archaeological record.

A set of general tactics were followed in each field situation. First, each site was located and then defined on the basis of surface artifact density. The field was traversed by walking every fifth crop row for a coverage of about five meters. The first and last artifact along each traverse was flagged if it was located within ten meters of another artifact. This procedure was followed to provide a pragmatic definition for each "site".

Next, the settlement boundaries were mapped in relation to points visible on the aerial photographs. This allowed coordination of all field data with information on aerial photographs (e.g., soil signatures from settlement features or former water courses, field boundaries, former historic structures, etc.).

A grid system was then generated for artifact collection. Four by four meter grid units were used to maintain spatial control for later analysis of internal settlement structure. Defining artifacts as "anything which exhibits any physical attributes that can be assumed to

be the results of human activity" (Dunnell 1971:201) enables an artifact to be identified in comparison with the environment. Objects whose presence cannot be accounted for by natural processes, can be assumed to be caused by human activity. The natural sediments of the Malden Plain are known to be fine grained sands and silts with lesser amounts of clay. Thus any object, other than vegetation, which was larger than sand (greater than 2.0 mm) was considered an artifact. Artifact collection proceeded by collecting all artifacts noticed within a unit.

The initial collection priority at each site was to obtain at least one long collection transect placed so as to encompass what was assessed to be the highest (center of the artifact cluster) and lowest (edge of the artifact cluster) artifact densities. Additional artifact collection was conducted as time and weather permitted. The configuration and coverage differed at each location, and are discussed in the following chapter.

Chapter 6

THE SITES

Three weeks of fieldwork were conducted in July, 1984. Five days were spent at County Line with a crew of three, six days at Cummins with a crew of three, and six days at Peits with a crew of two (Figure 9). In 1986, two days were spent at Cummins with a crew of three. In the following sections, background material for each site is provided, along with a description of the specific fieldwork conducted, and a discussion of the potential data obtained from each site. Each section concludes with a description of the settlement context for the Mississippian occupation at each site.

The County Line Site (23S0166)

Site Environment

County Line is located in the northern portion of the Malden Plain. It is situated along the eastern escarpment overlooking the Morehouse Lowlands. At this location, the Malden Plain escarpment rises some 4.5 to 5.0 meters above the lowland (Figure 9). The site is partly occupied by a road separating Dunklin and Stoddard Counties. A house and several outbuildings occupy another portion of the site. Most of the site is under cultivation or in pasture.

The General Land Office survey for the immediate vicinity of County Line (T23N R10E, Sec. 22 and 15) was conducted prior to European settlement and provides a general indication of the late prehistoric environment at the site. The area was actually surveyed in two segments. The higher, dry areas on the Malden Plain were recorded as early as December 1823, while the low lying areas in the Morehouse Lowland were not surveyed until December 1859. Although the GLO survey descriptions are biased toward identification of timber and cultivation potential, the notes and accompanying plat (Figure 10) are particularly useful in that they reflect the natural environment of the location prior to forest clearance.

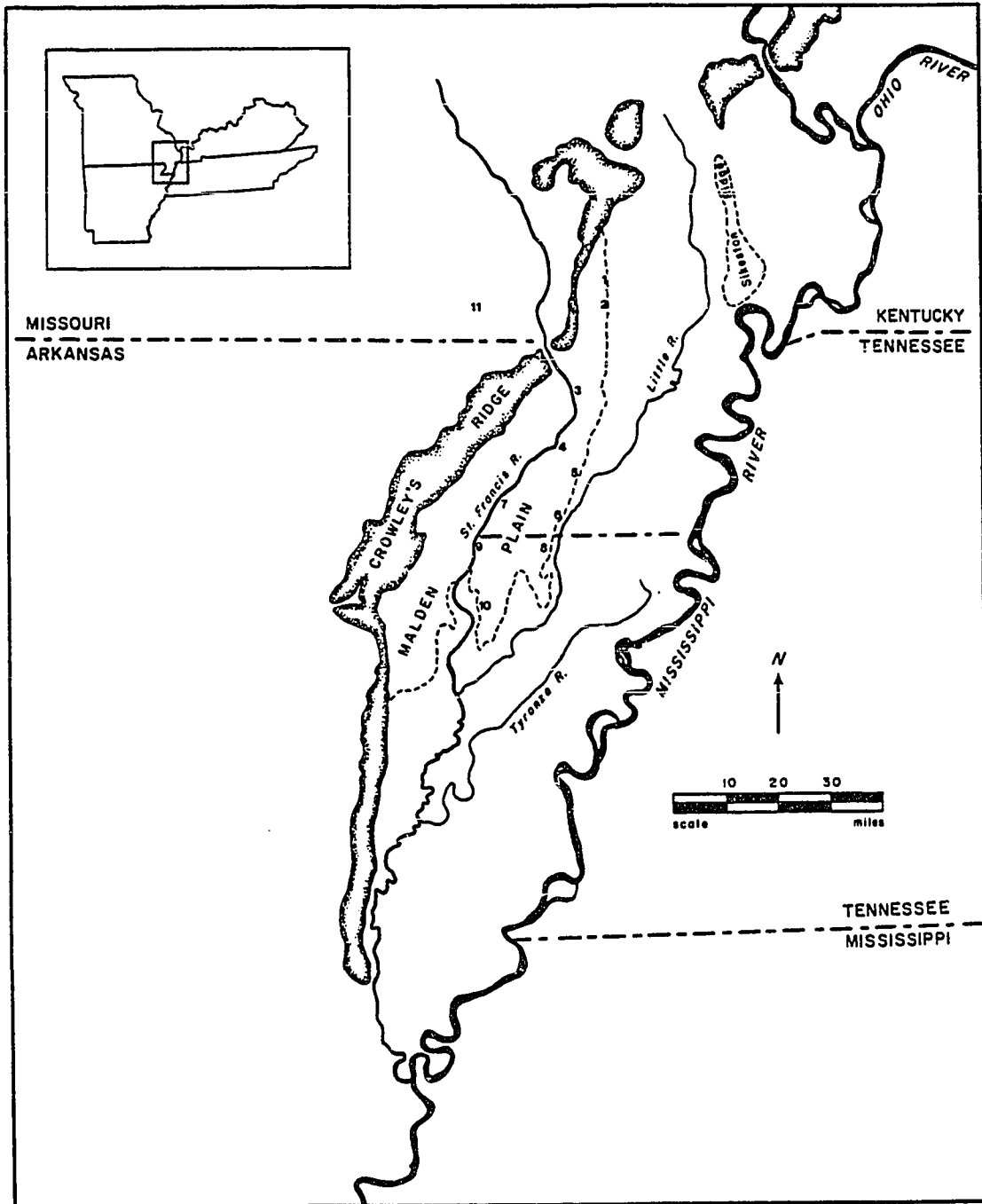
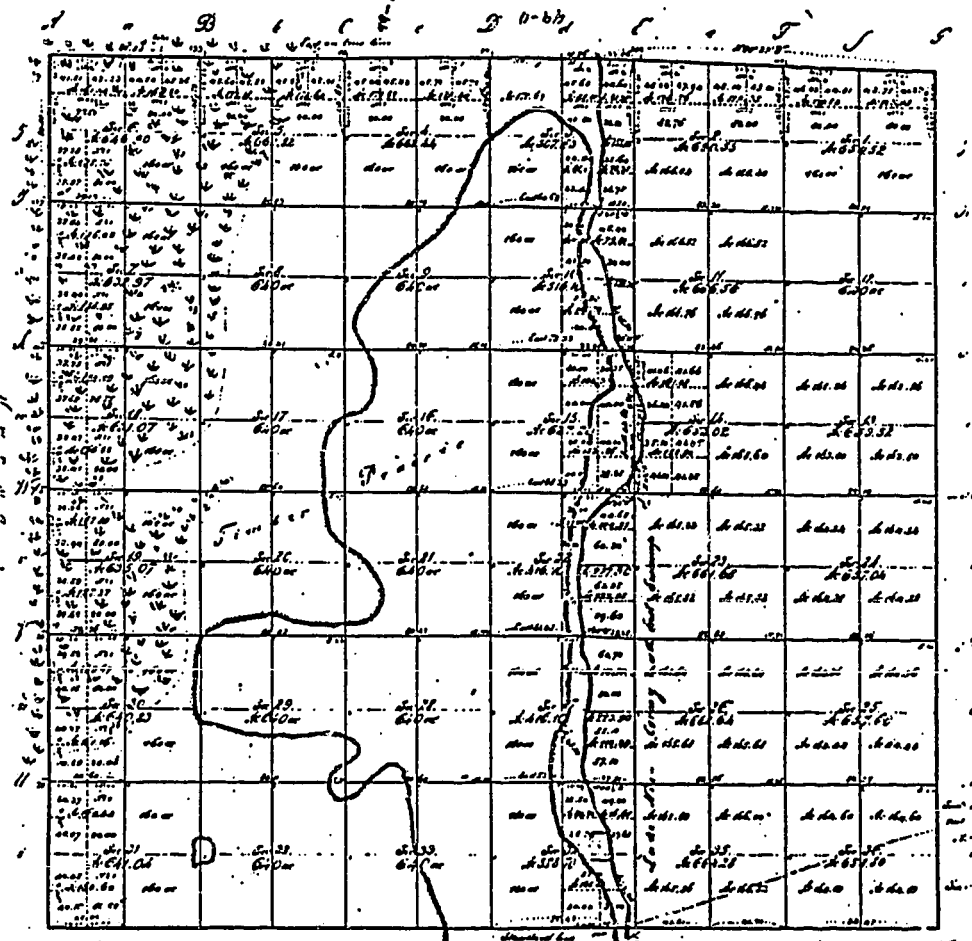


Figure 9: Location of Mississippi sites discussed in text: 1) Rich Woods; 2) County Line; 3) Vancil; 4) Cummins; 5) Pelts; 6) Langdon; 7) Marrett; 8) Zebree; 9) Lawhorn; 10) Mangrum; 11) Powers Fort.

Township 23 North of the base line Range 10 East of the 5th principal Meridian



Title of the Survey
 Date of the Survey
 Name of the Surveyor
 11-57
 Total = 2335.1
 Total = 2335.1

The above plat of Township 23 North of the base line Range 10 East of the 5th principal Meridian is a plat of the land owned by the United States Government and is a part of the public domain. It is a plat of the land owned by the United States Government and is a part of the public domain. It is a plat of the land owned by the United States Government and is a part of the public domain.

Figure 10: General Land Office Plat for Township 23N Range 10E (1859).

The County Line site itself lay in what was West Prairie (Schroeder 1981) at the time of the GLO survey. The well drained and high elevation of the County Line location is clearly reflected in the few marker trees available to the surveyor (Figure 11): black oak (*Q. velutina*), white oak (*Q. alba*), post oak (*Q. stellata*), identified elsewhere as cow oak, and blackjack oak (*Q. marilandica*).

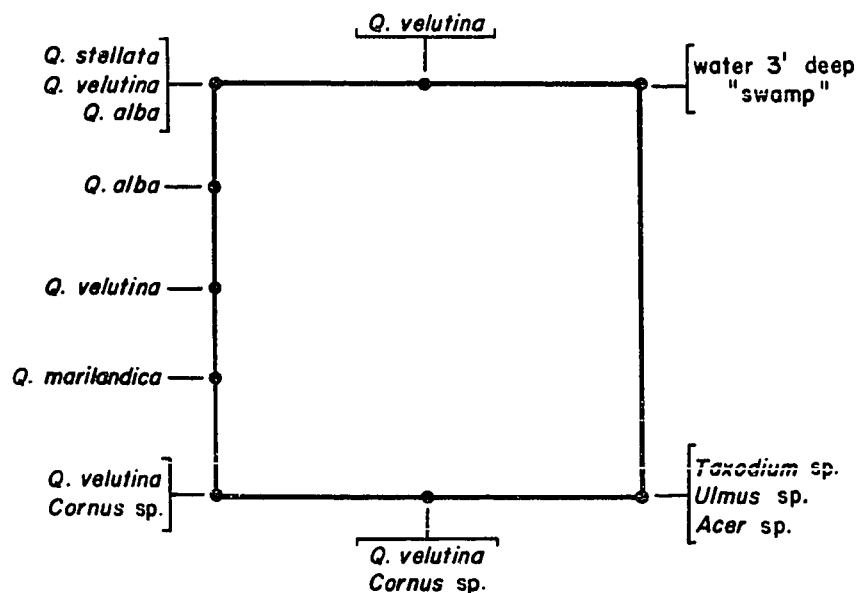


Figure 11: Marker trees identified in the General Land Office Survey for Section 15, Township 23N, Range 10E.

The abrupt difference in elevation between the Malden Plain and the Morehouse Lowland resulted in correspondingly abrupt changes in vegetation. Adjacent to the escarpment in the Morehouse Lowland, the GLO notes record Lake Nic-Corney (Figure 10) which was a permanently inundated Cypress (*Taxodium sp.*) swamp. Marker trees and descriptions also mention gum (*Nyssa sp.*), Maple (*Acer sp.*), Elm (*Ulmus sp.*), and Ash (*Fraxinus sp.*). Most of the area was open water fringed with dense growth, with wild rose and briars mentioned specifically (GLO 1859).

To the west of the prairie and the immediate site area, elevation on the Malden Plain decreases and timbered areas are recorded. This northeast-southwest trending area was described as "level land with first rate timber", with hickory (*Carya* sp.), elm (*Ulmus* sp.), and dogwood (*Cornus* sp.) identified as marker trees, and sumac and briars identified as undergrowth. The absence of black jack oak, which prefers dry, sandy and sterile soils, and the presence of *Carya*, *Ulmus*, and *Liquidambar*, all of which prefer slightly wetter conditions (Sargent 1963), reflect a lower and more poorly drained topography. Hydrological conditions are commensurate with elevational decreases as one moves toward the western edge of the township. This is indicated by the swamp designated in the western area.

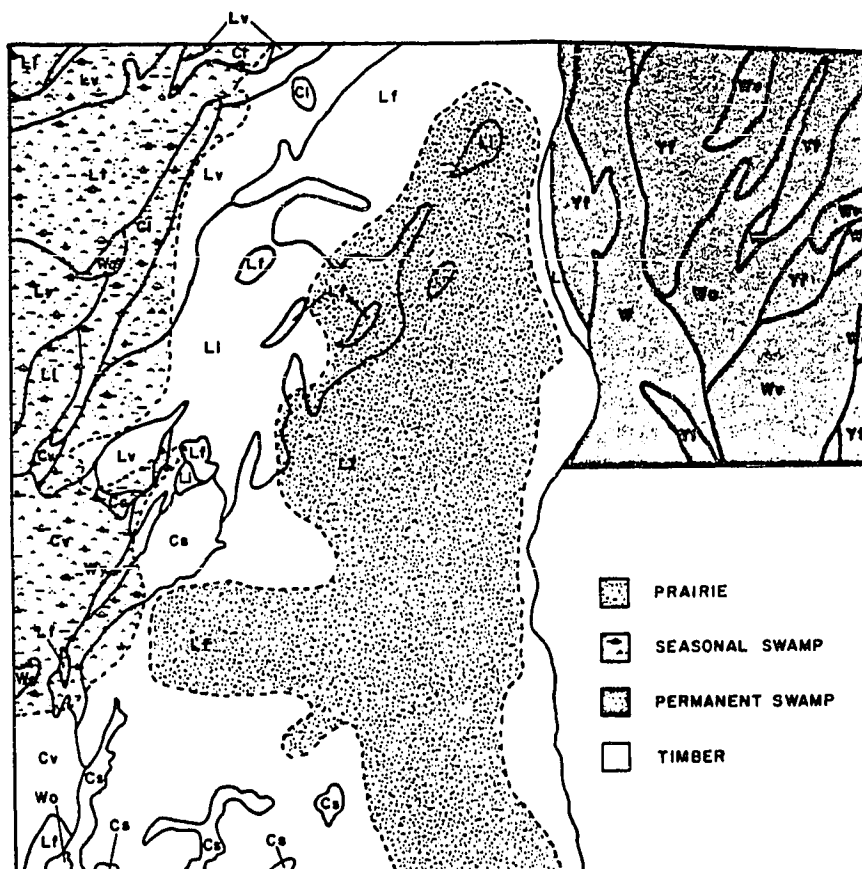


Figure 12: Comparison of soils (Sweet, et al. 1914; Sweet et al. 1916) and vegetation data (GLO 1859) for Section 15, Township 23N, Range 10E.

As expected, soils mapped for the Malden Plain and Morehouse Lowland contrast with one another. The only soil survey for Stoddard County was conducted in 1912 (Sweet, et al. 1914). Soil units defined in the earlier surveys are not directly comparable to those defined in the more recent descriptions, so information for the entire township is taken from the earlier surveys for both Stoddard and Dunklin Counties (Sweet et al 1914; Sweet, et al. 1916).

Soils on the Malden Plain are characterized by northeast to southwest trending belts of Lintonia sands while Wabash clays are predominant in the Morehouse Lowland. The County Line enclosure is situated within a large area mapped as Lintonia fine sand, a light brown, loose, fine sand that is excessively drained (Sweet et al 1914:1777). The vegetation information from the GLO notes, the soil data, and the topography are closely correlated (Figure 12).

Thus, the County Line settlement site was situated in a high, well drained area, in a setting that offered the full range of micro-environments available from the Malden Plain.

Prior research

The County Line site was first recorded by the Bureau of Ethnology mound survey (Thomas 1891:133; 1894:174). Since there are no records or correspondences in the National Museum Archives or any artifact collections in the National Museum holdings, it is not known which surveyor provided the County Line information, and it is unlikely that any excavations were conducted there. Thus, the only information from the Bureau of Ethnology's effort is the short description and map (Figure 13) published in Thomas' volume (1894). The map is accompanied by the following description:

This settlement, shown in Fig. 92, on which *a a* denote the county line between Stoddard and Dunklin counties, is situated in an oak opening on West prairie, 500 yards east of the Dexter and Malden road. It borders on East swamp and is surrounded on the other three sides by a ditch (*b b*) that averages 10 feet wide and 3 feet deep. The dirt seems to have been thrown out about equally on each side, but there is nothing that can be called a wall or an embankment. The

enclosure is 330 yards long by 220 in width, and contains about 15 acres. Nearly the whole of this space is occupied by circular depressions or hut rings of the usual size and appearance, containing the usual amount of ashes, broken pottery, bones, etc. There are no mounds in the enclosure, but just outside, near the northwest corner, is a low circular one about 4 feet high and 100 or more feet in diameter. (Thomas 1894:174)

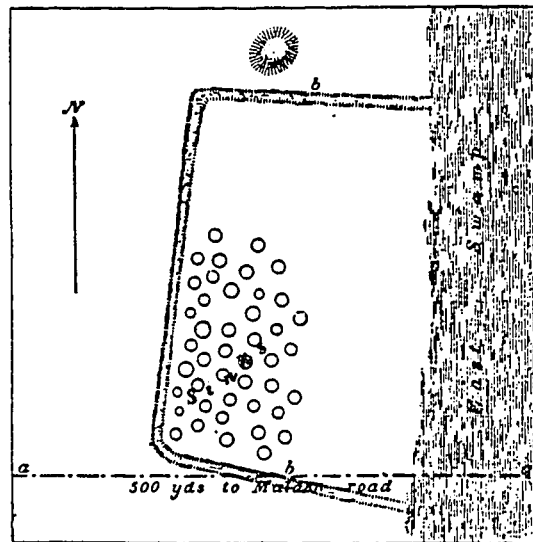


FIG. 92.—County line settlement, Stoddard county, Missouri.

Figure 13: Map of the County Line site depicted by Thomas (1894).

S. Williams' (1954) account of County Line was brief, and most of his description is based on Thomas' observations. From his visit, he reported the presence of Barnes and Mississippian ceramics and assigned the Mississippi occupation to the Malden Plain phase. He also noted that "sherd materials were rare on the Plain and could only be found on the bank" (1954:173).

J. R. Williams (1964:136-139) included County Line in his study of fortified villages of southeast Missouri. He also drew from Thomas' description, and noted that the orientation of the site in Thomas' map

was inaccurate. He made a small surface collection of 85 sherds (Table 12).

Table 12: Sherd assemblage reported for the County Line site by J.R. Williams (1964:138-139).

<u>Baytown Complex</u>	<u>Count</u>	<u>Percent</u>
Baytown Plain	31	36.47
Barnes Cordmarked	7	8.23
Barnes Plain	1	1.17
P2	1	1.17
P3	4	4.70
Sub Total	44	51.74
<u>Mississippian Complex</u>		
Mississippi Plain	40	47.59
Bell Polished Plain	1	1.17
Sub Total	4	48.76
Total	85	100.50

It was anticipated that my fieldwork would help to resolve several discrepancies in past descriptions. As J. Williams noted, the orientation of the site as depicted by Thomas (1894) is not accurate. In the U.S.G.S. (1956) 15 minute quadrangle, the escarpment runs slightly northeast to southwest at the County Line location rather than north to south. In addition, the size of the enclosure has never been confirmed. Thomas' measurements (330 by 220 yards), produces an enclosed area of exactly 15 acres; a measurement that may be approximately correct but a bit too perfect.

The artifact density at County Line was also a question. While Thomas described "the usual amount of ashes, broken pottery, bones, etc.", both S. Williams (1954) and J. Williams (1964) give the general impression that the artifact density at County Line is distinctively lower than that found at other large Mississippian period sites in southeast Missouri.

The 1984 Fieldwork

As indicated above, a road runs through the County Line site. The larger portion of the site lies to the north of the road and it is in this portion where the 1984 fieldwork was conducted. Aerial photographs taken in 1937 and 1966 by the American Soil Conservation Service verified the enclosure's location and were helpful in formulating a field strategy. However, they reveal a slightly larger portion of the enclosure under cultivation than is currently the case, as a segment of the northern field is now left in pasture (Figure 14).

The location of the artifact scatter was identified by walking through the field at a spacing of 9 meters (every tenth crop row). Since it was presumed that the southern edge of the field was well within the settlement boundaries, only the last artifact in each row was flagged to determine the extent of the artifact scatter. Once the boundaries were defined and mapped, a grid system was generated and staked at 48 meter intervals. Three 216 meter transects were set 48 meters apart running from north to south (Figure 15). The length of these transects was set to insure that the boundaries of the enclosure would be included. The three transects were used for the controlled surface collection and a magnetic survey to identify structural features. Magnetometer readings were taken at 2 meter intervals so that fine grained subsurface structural information could be obtained. Most subsurface features are small and their magnetic signature is highly localized. For example, Thomas described the moat as being approximately three meters (ten feet) wide and in order to obtain a magnetic signature for this feature, measurements would have to be taken at smaller intervals. Artifacts were collected in 4 x 4 meter units to obtain adequate spatial control for later analysis of internal settlement structure. Sediment samples were also collected. Given the requirement for absolute dating of the materials, and in light of the fact that radiocarbon methods could not be relied upon for surface materials, sediment samples would be necessary for thermoluminescence dating. Sediment samples were collected at 8 meter intervals.

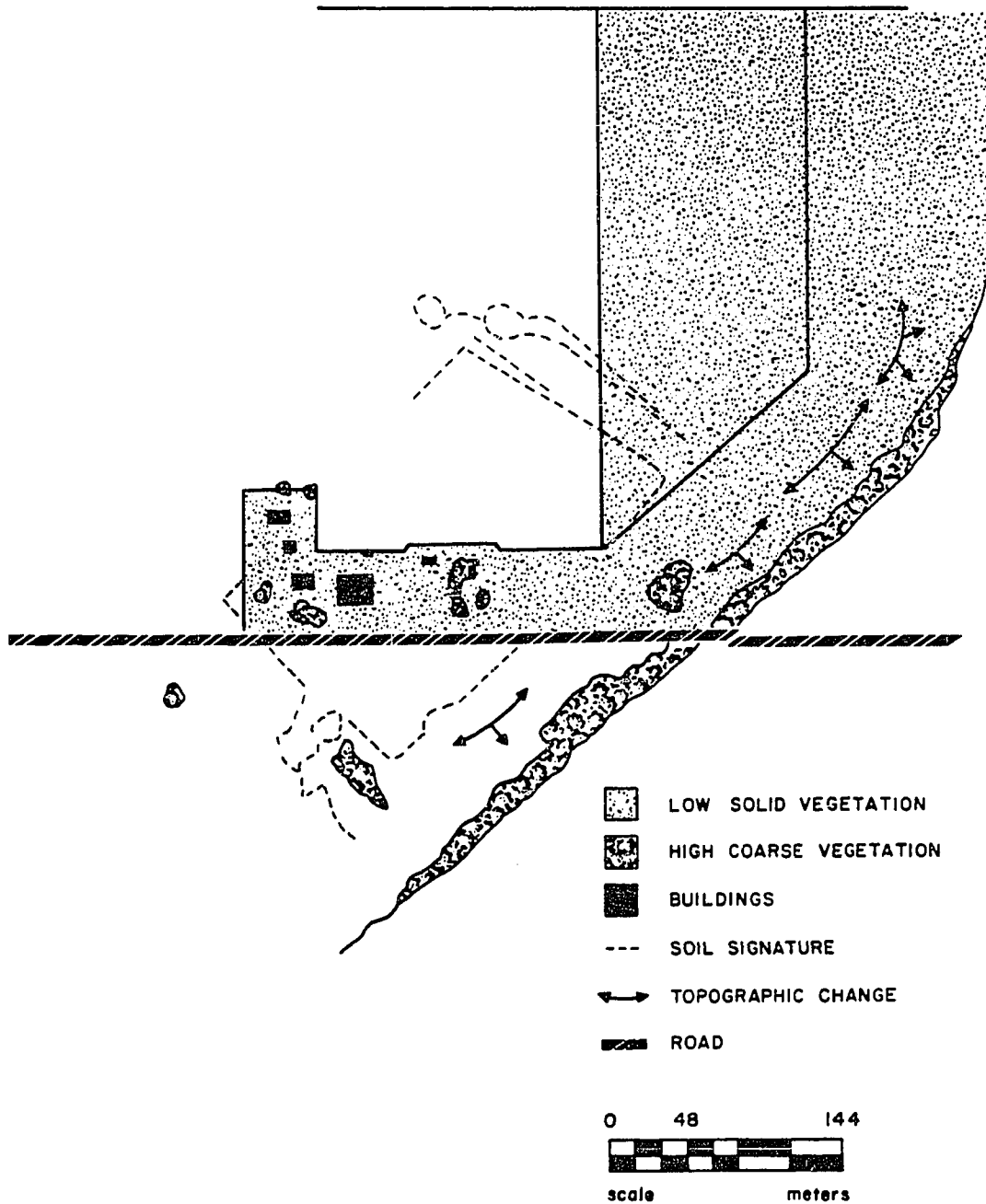


Figure 14: Current cultivation and land use for the County Line site location in 1984 (Map prepared from 1936 and 1966 ASCS 1:20,000 aerial photography and ground survey).

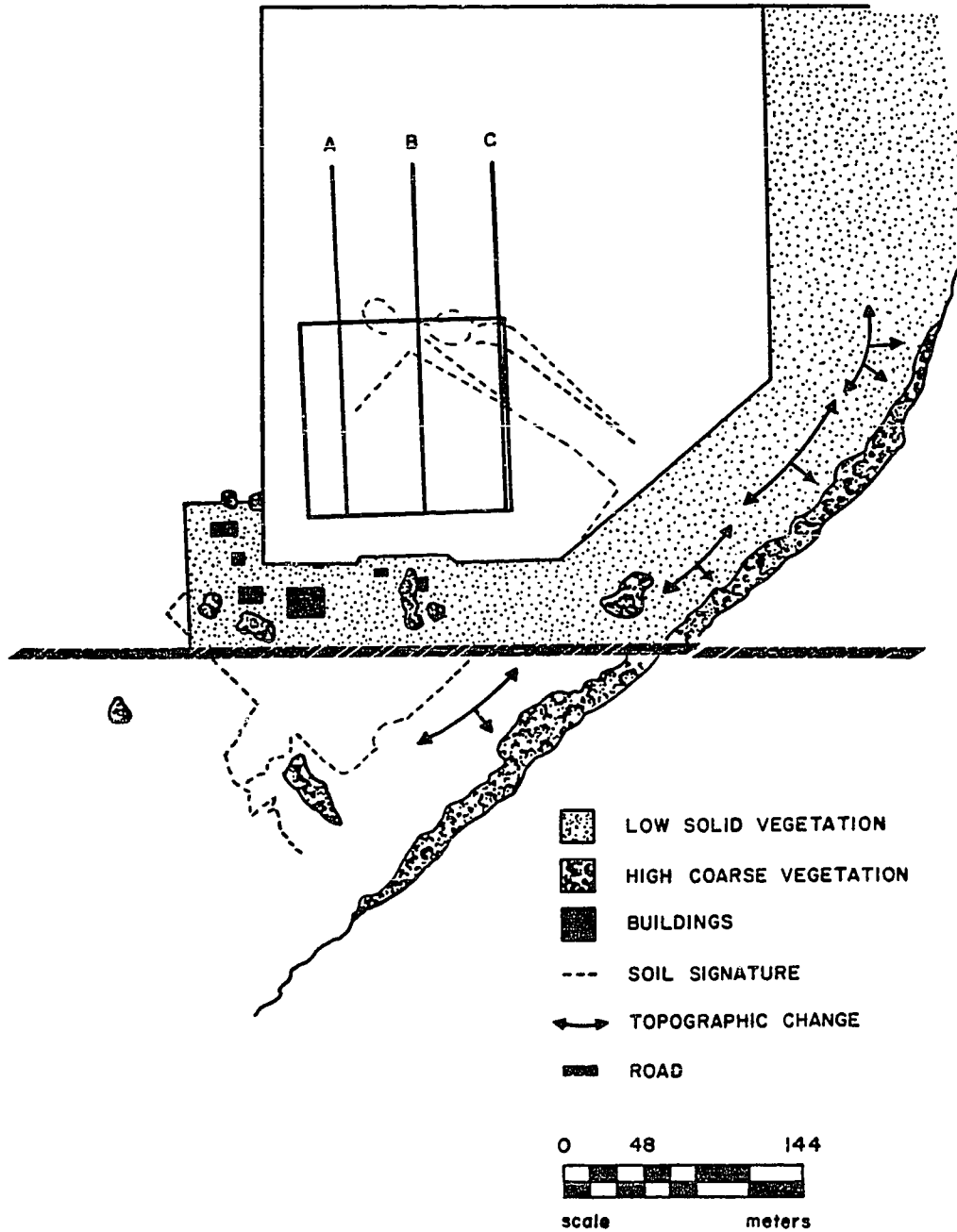


Figure 15: Location of fieldwork at County Line. Area within box refers to mapped areas (Map prepared from 1936 and 1966 ASCS 1:20,000 aerial photography and ground survey).

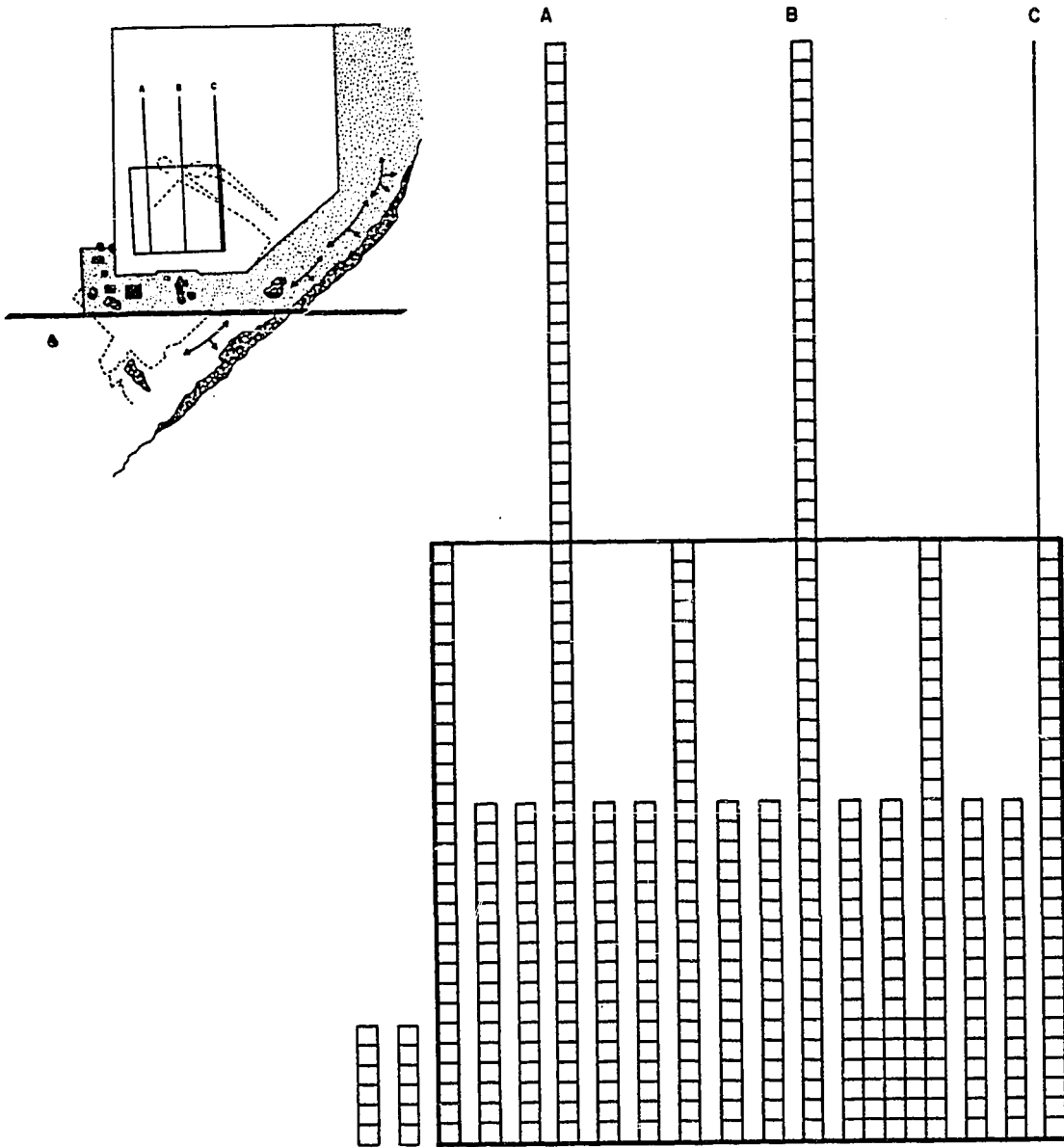


Figure 16: Grid system for fieldwork and systematic controlled surface collection at County Line. Area within box refers to mapped area.

Once initial work along the three major transects was completed, the surface collection was expanded. Shorter transects of 4 x 4 meter units were collected at regular intervals between the longer transects to obtain more detailed information on internal settlement structure. The total collection included 433 collection units (Figure 16).

Data Considerations

A major impediment affecting the fieldwork was low surface visibility as the field had not been cultivated or disced following the winter wheat harvest. The surface was not completely obscured within three weeks of the harvest and artifacts could be identified. However, the surface was almost completely obscured along the edges of the field, so collection was confined to the interior of the field. Poor visibility appears to have acted principally as a density "filter" reducing the number of artifacts collected but not otherwise affecting content. This bias was examined by comparing the spatial distribution of different artifact classes.

As will be discussed more extensively in the following section, prehistoric artifacts show spatial distributions that are generally consistent with one another (Figures 24 through 28), although there are two classes of artifacts in the assemblage, water worn and sandstone pebbles, which do not (Figures 17 and 18). The origin of these "artifacts" is unclear. They may represent the upper end of the size range of natural sediments that can be expected to occur in low frequencies. They are considered artifacts by virtue of their size and location, although they display no evidence of modification or use. Their distribution is relatively uniform across the collection area, with high density areas occurring within areas of consistently low density for other classes of prehistoric artifacts. Of particular concern was the southwest (lower left) area of the maps in which prehistoric artifacts display consistently low density distributions. Since the density distributions of smooth (Figure 17) and sandstone pebbles (Figure 18) do not duplicate this general pattern, it is

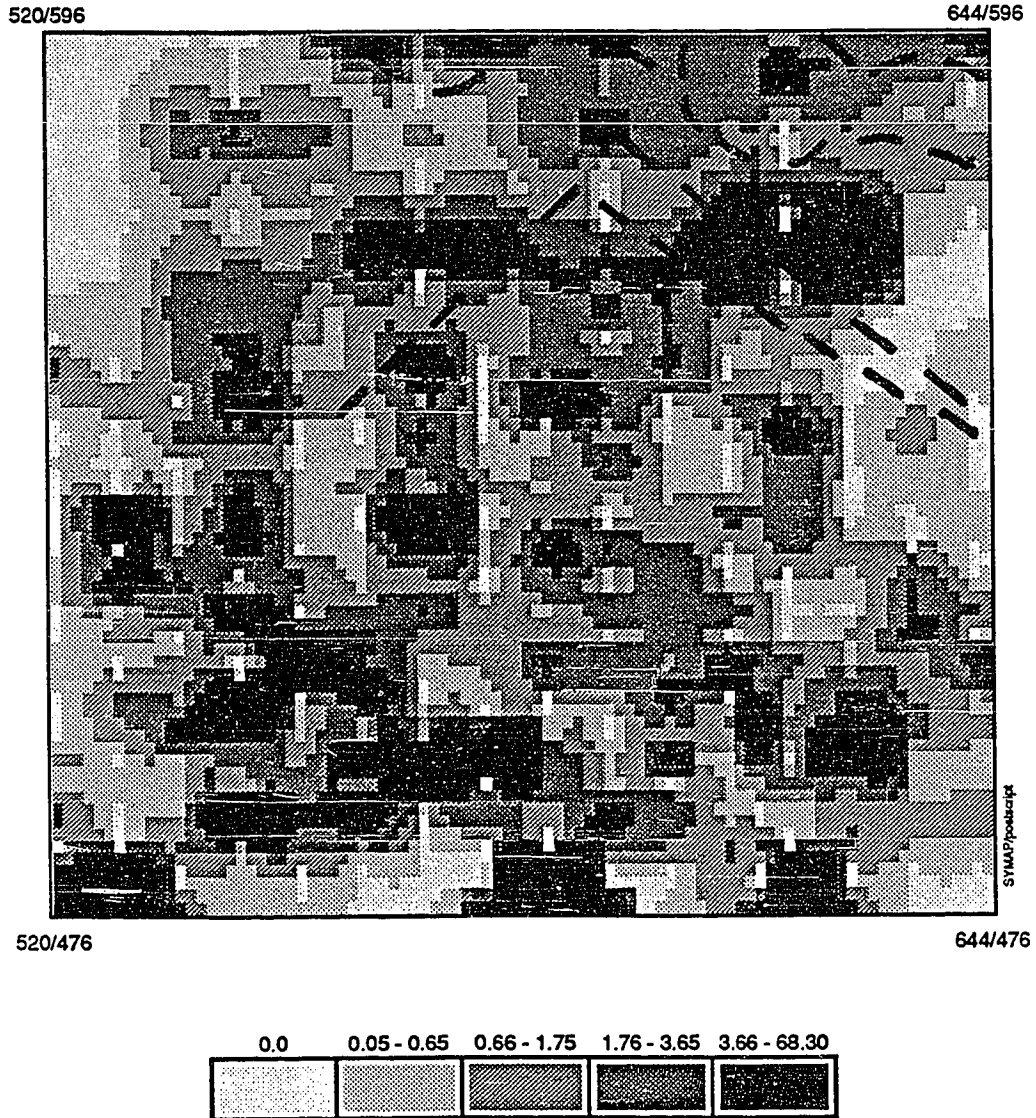


Figure 17: Spatial distribution of smooth quartz and chert pebbles at County Line.

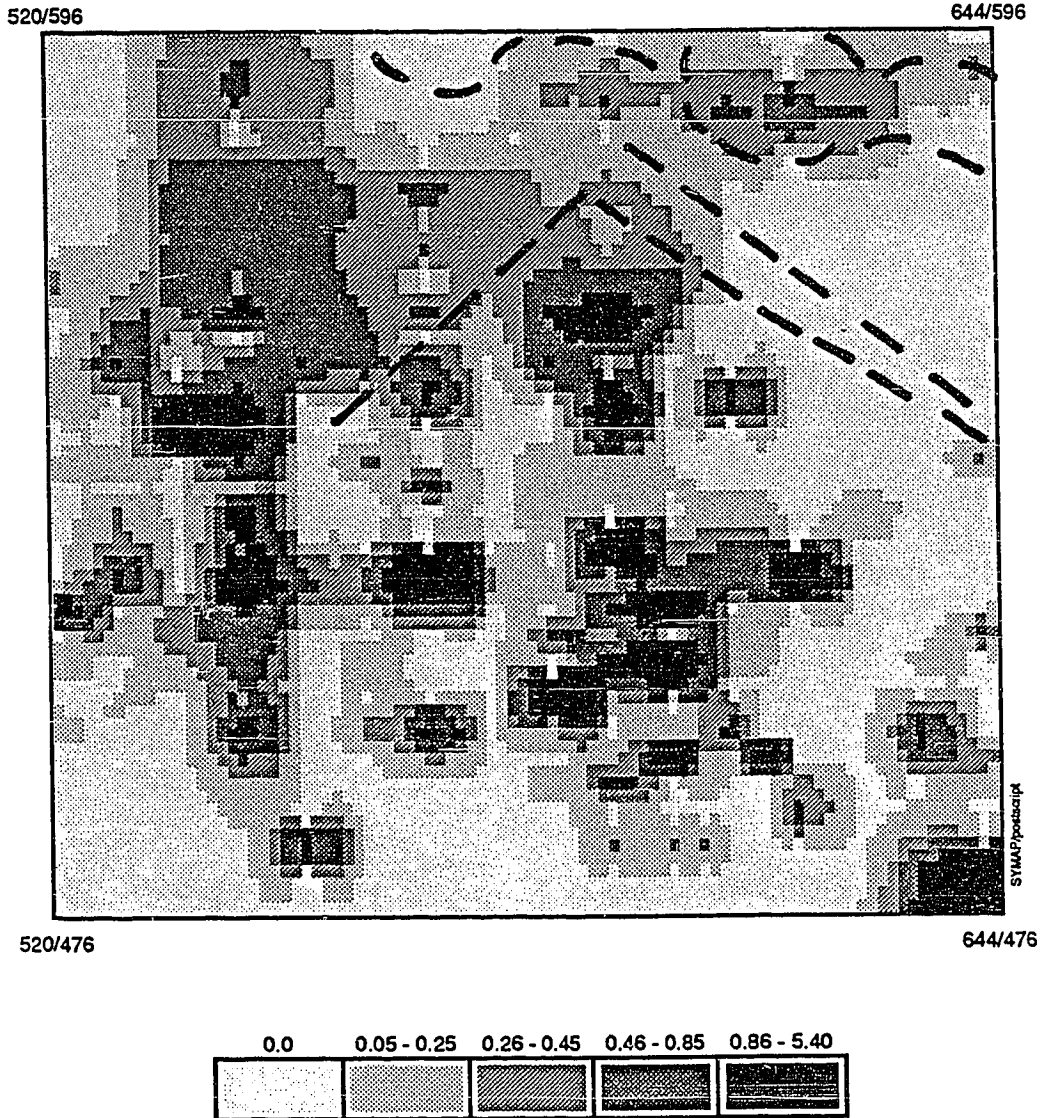


Figure 18: Spatial distribution of sandstone pebbles at County Line.

assumed that the spatial data reflect the spatial distribution of artifacts rather than differential visibility due to field conditions.

Although the Malden Plain affords an accessible and visible archaeological record, this results in certain complexities where sites occur as spatially overlapping palimpsests of temporally disjunct occupations (Binford 1982). In some situations it is possible to distinguish between temporally disjunct occupations on the basis of spatial distributions of typologically different kinds of artifacts (Beck 1984). This was possible for the ceramic assemblages. Coarse sand tempered sherds, characteristic of a Woodland Period Barnes occupation were recovered. Their distribution (Figure 23) overlaps that of the other artifacts mapped (Figures 24 through 28). Despite substantial overlap, sand tempered sherds have a distribution different from shell tempered ceramics. Sand tempered sherds are confined to a relatively small area, and do not extend to other areas that have consistently high densities of other artifact classes. The Barnes occupation(s) is structurally different and probably historically unrelated to the Mississippi Period occupation. If these two assemblages were historically related, then one would expect to find early Mississippi ceramics in the assemblage, which are not present.

There is a more serious problem in regard to the lithic assemblage. Apart from the "diagnostics", the bulk of the lithics may have originated from any number of temporally distinct occupations. Although better chronological control is desirable, the lithics are considered a single assemblage. Of the 41 bifaces, 12 can be assigned to broad periods. One base fragment is Woodland, and the remainder are Mississippian. From the Archaic through the Mississippian, projectile point frequencies decrease through time. This is particularly true relative to other classes of artifacts in their respective assemblages. The fact that Mississippian points overwhelm the assemblage of diagnostic lithics suggests that the major portion of the lithic assemblage is Mississippian. Thus, given the modest size of the Woodland occupation, the very low frequency of stone associated with those occupations elsewhere, and the absence of any markers for a

significant preceramic occupation, non-Mississippian lithics probably contribute "noise" to, rather than change the character of, the overwhelmingly Mississippian lithic assemblage.

The County Line Settlement

The character and structure of the Mississippian settlement at County Line site was examined in several ways. In addition to the soil signatures from aerial photographs, spatial distributions of artifacts were generated using SYMAP (Dougenick and Sheehan 1975). The magnetic survey, by recording subsurface features, augmented both the soil signature and artifact data.

The soil signatures on the aerial photographs are relatively light but indicate a settlement structure similar to Thomas' description. The signature is particularly diffuse along the western edge of the enclosure, parallel to the escarpment. A map generated from the aerial photographs (Figure 15) was used to estimate the size of the enclosure. The internal area measures approximately 240.4 meters (262.9 yards) by approximately 154.4 meters (or 168.9 yards). These estimates fall short of Thomas' 15 acres and enclose an area of 9.2 acres. If the outer anomaly on the north edge is used to derive the estimate, the enclosure measures 298.8 by 168.9 meters, enclosing 10.4 acres, somewhat closer to the Thomas estimate.

The soil signatures on the aerial photographs taken in 1936 and 1966 are consistent but may not provide the most accurate measure for the moat boundaries. Soil signatures represent differential moisture gradients of various causes. Archaeological sites often appear darker as a result of higher organic content, while former water courses, also quite dark on aerial photographs, are the result of both higher organic content and differences in the particle size of sediments. Differences in current land use also affect soil signatures. Since the size estimate here is derived from two different fields, where different land use is practiced, it may not be wholly accurate.

It was anticipated that a magnetic survey would augment the soil signature data and facilitate interpretation of its structural basis.

Magnetometers measure the earth's magnetic field at particular locations and are used to detect spatial changes and variability through identification of anomalies. Anomalies are created by local change in the magnetic field.

Most anomalies register because a specific object or set of objects is more magnetic than its surrounding matrix. Anomalies can register because of an anomalous distribution of magnetic minerals (particularly magnetite which is ubiquitous among naturally occurring rocks), the presence of iron objects, or from an enhanced magnetization of baked clays. Other anomalies are detectable because they displace a uniformly magnetic matrix that surrounds them (Breiner 1973).

Anomalies from archaeological deposits are complex, and the results from County Line are no exception. The data for all transects (Figure 19) are plotted as three point running averages to reduce noise in the magnetometer measurements and smooth the curve (cf. Breiner 1973). A consistent gradient along all three transects tracks distance from the Malden Plain escarpment. Here, the different geological origins of Malden Plain and lowland sediments are evident. In spite of the gradient, anomalies can be discerned. Another consistent feature among all transects are the anomalies which occur outside the soil signatures. These anomalies do not track the shape of the enclosure, and occur in areas of low artifact density. They may well indicate the presence of a geologic anomaly.

The magnetic data, soil signatures, and artifact data were combined to derive a larger picture of the settlement structure (Figures 20 through 22). Boundaries of the soil signatures from the aerial photographs are designated by arrows along each transect. For a more complete compilation of artifact densities across the collection area, SYMAPS were generated for major artifact classes (Figures 23 through 28). The collection area included within the SYMAPS is specified by the boxed area in Figure 15.

Magnetic anomalies coincide with soil signature boundary locations, especially along Transect B (Figure 21, Figure 15) and Transect C (Figure 22, Figure 15) where soil differences are most

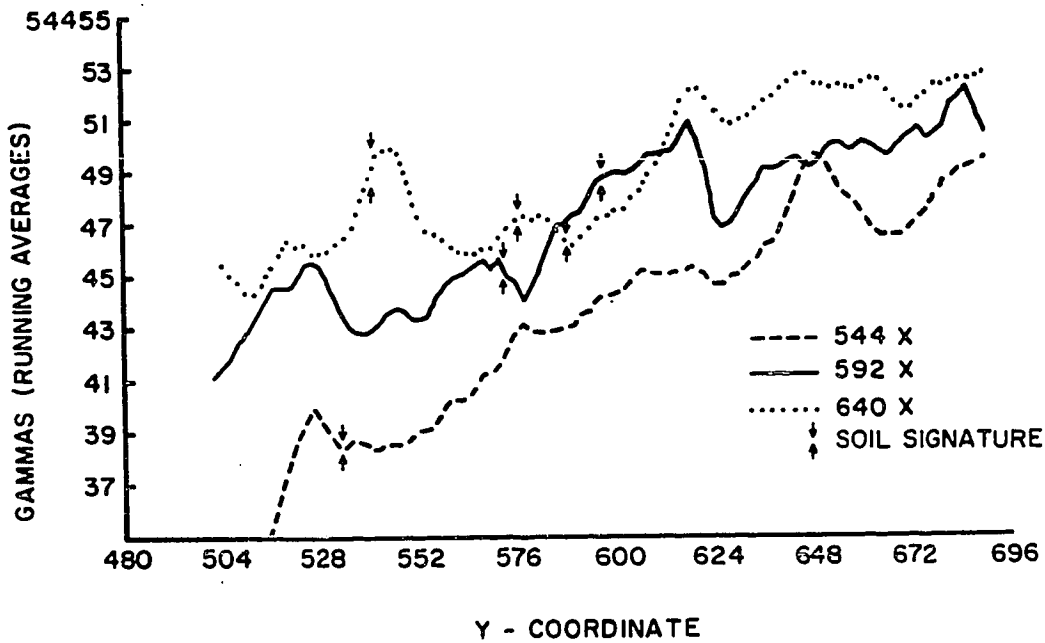


Figure 19: Magnetometer data for Transects A, B, and C at County Line.

pronounced. Major anomalies within the enclosure, as inferred from the soil signatures, are assumed to be internal settlement features. These anomalies also coincide with high artifact densities.

Transect A (Figure 20, Figure 15), which extends through the western edge of the enclosure, is also consistent with the artifact distributions and soil signatures. Magnetic anomalies along this transect are fewer and less pronounced (Figure 20). Similarly, the soil signature for the enclosure is lighter in color and more diffuse than other areas. Furthermore, in this portion of the collection area, artifact density is consistently low (Figures 23 through 28). It is possible that this area of the settlement was utilized less intensively or for non-domestic purposes.

The magnetic data, soil signatures and artifact data support the location of the moat as reported by Thomas. The magnetic data,

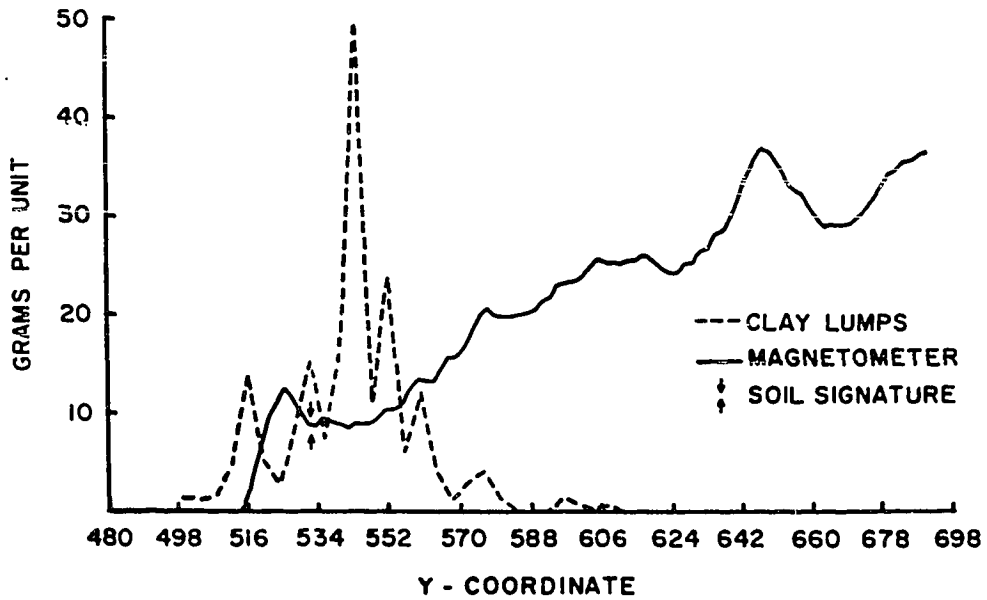
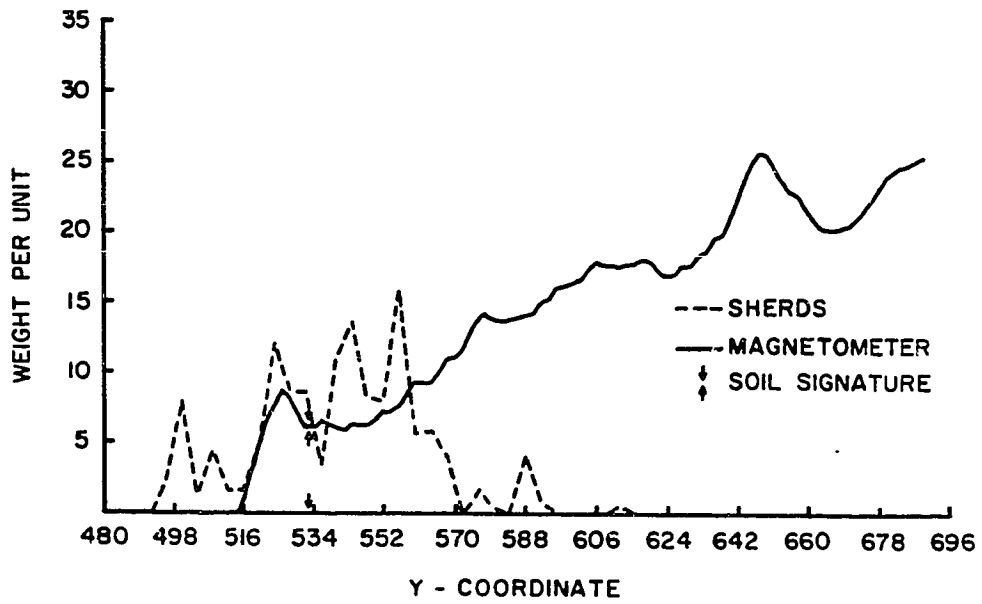


Figure 20: Magnetic data, artifact distributions, and soil signatures for Transect "A" (Figure 15) at County Line.

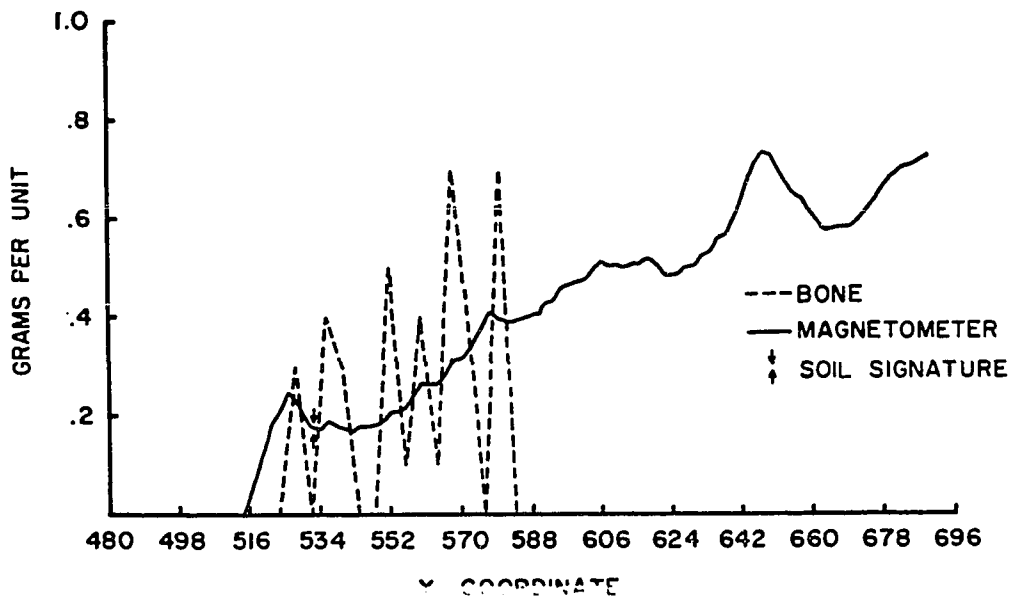
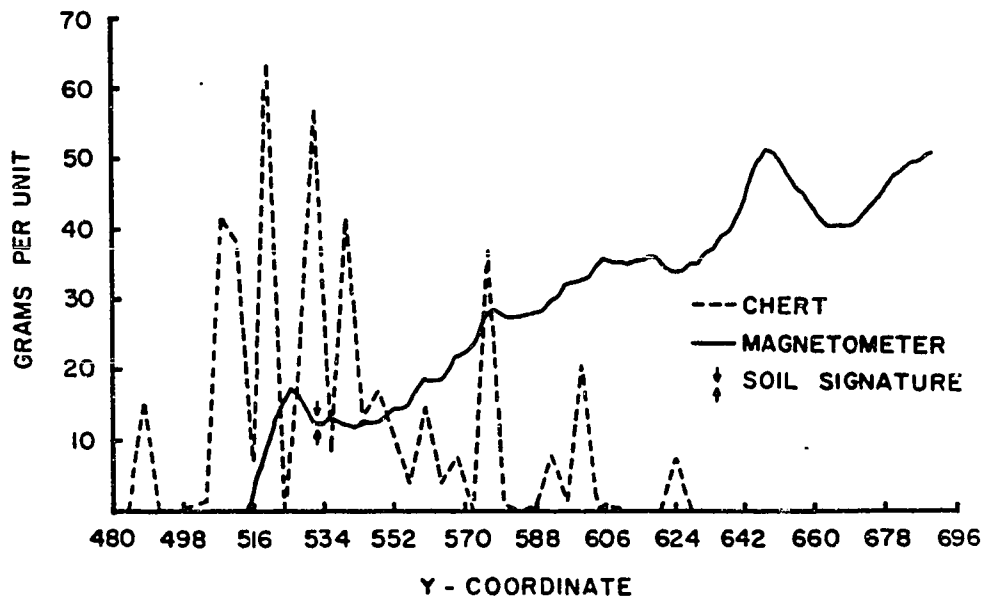


Figure 20 (continued): Magnetic data, artifact distributions, and soil signatures for Transect "A" (Figure 15), at County Line.

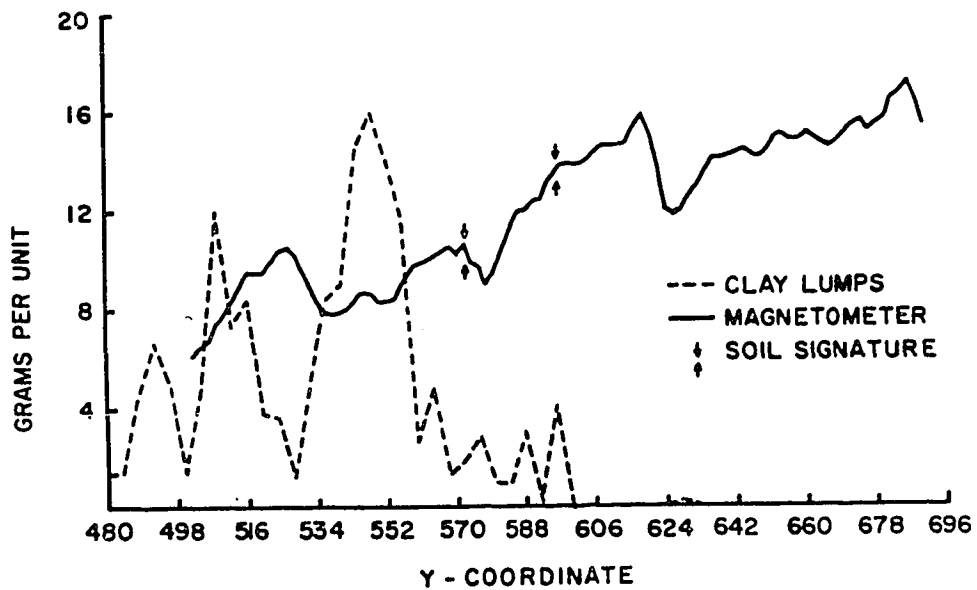
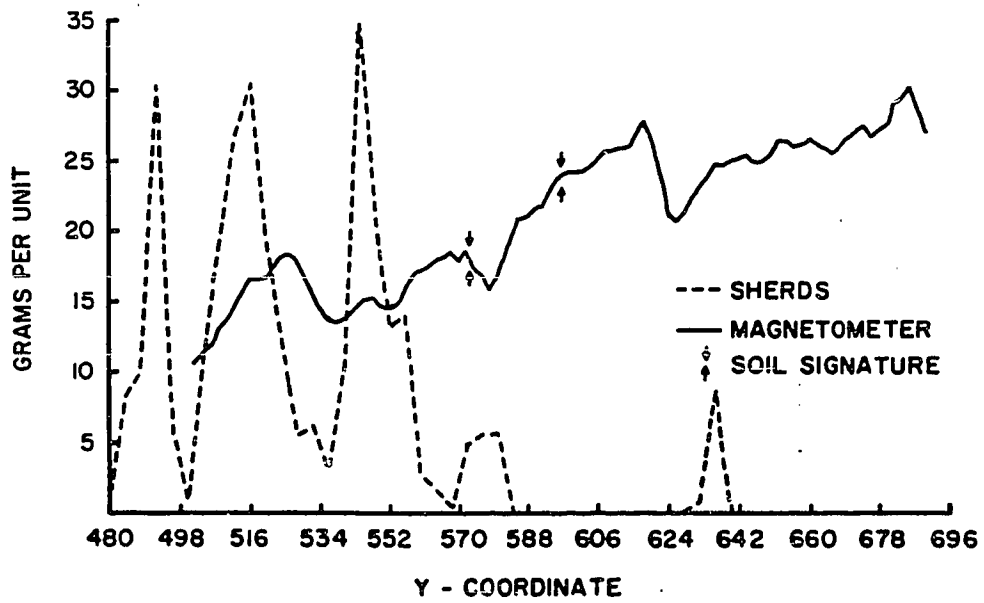


Figure 21: Magnetic data, artifact distributions, and soil signatures for Transect "B" (Figure 15) at County Line.

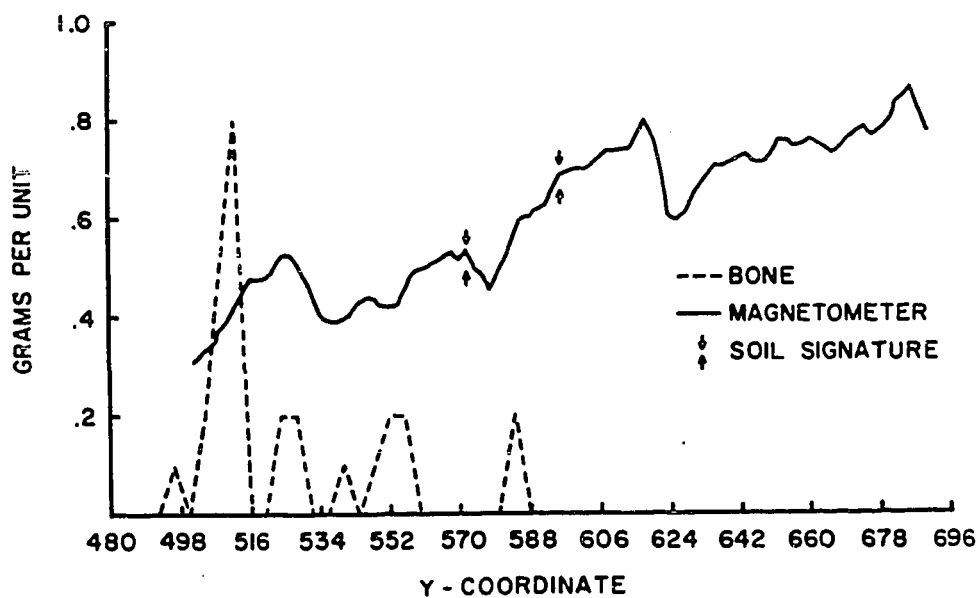
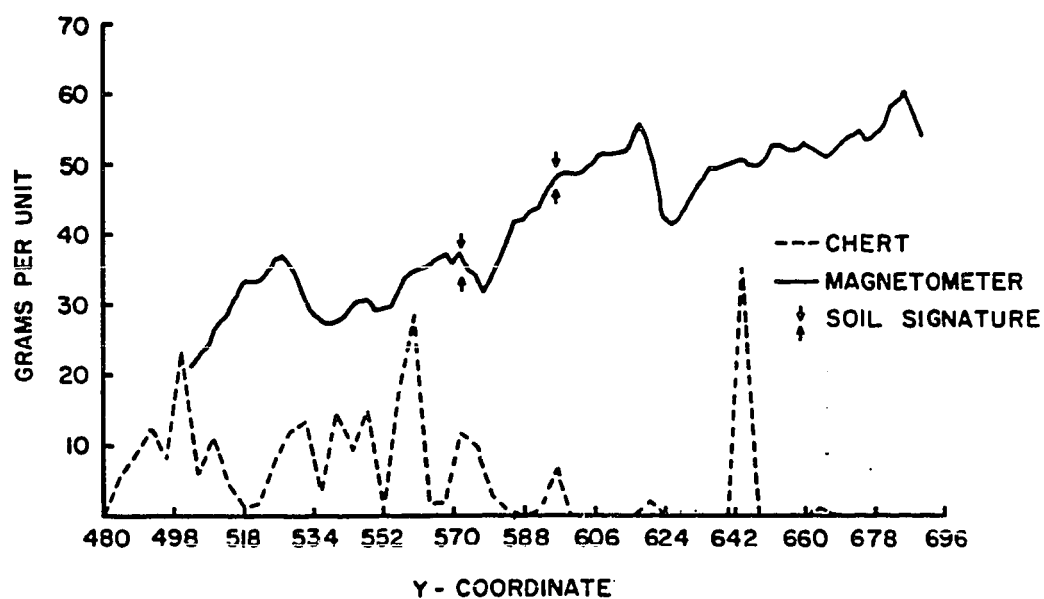


Figure 21 (continued): Magnetic data, artifact distributions, and soil signatures for Transect "B" (Figure 15) at County Line.

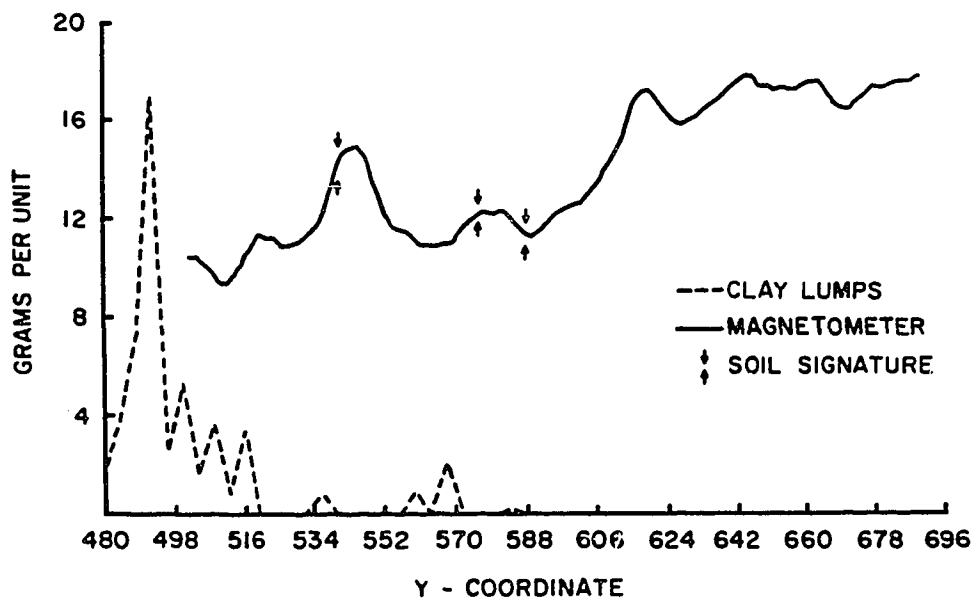
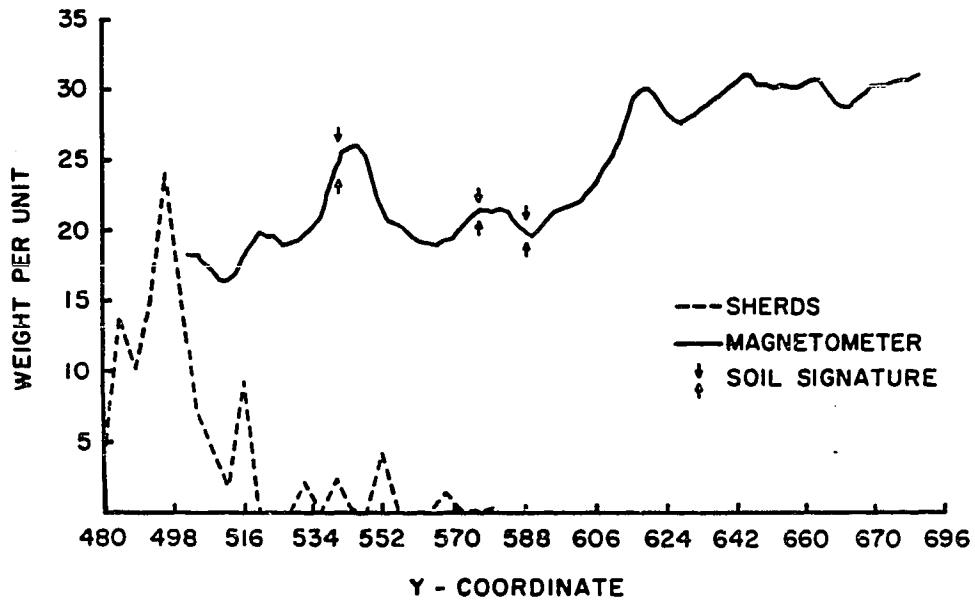


Figure 22: Magnetic data, artifact distributions, and soil signatures for Transect "C" (Figure 15) at County Line.

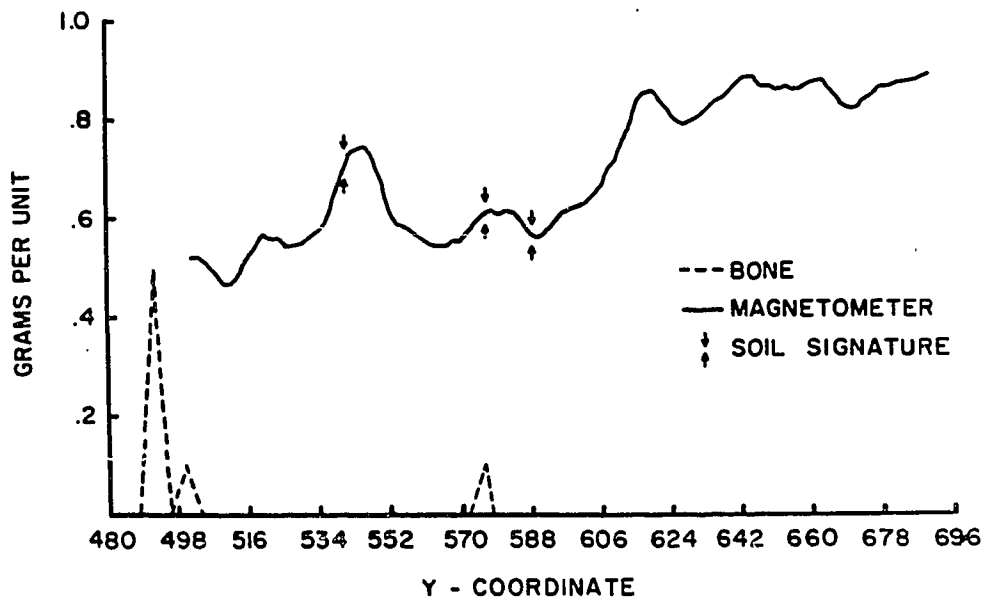
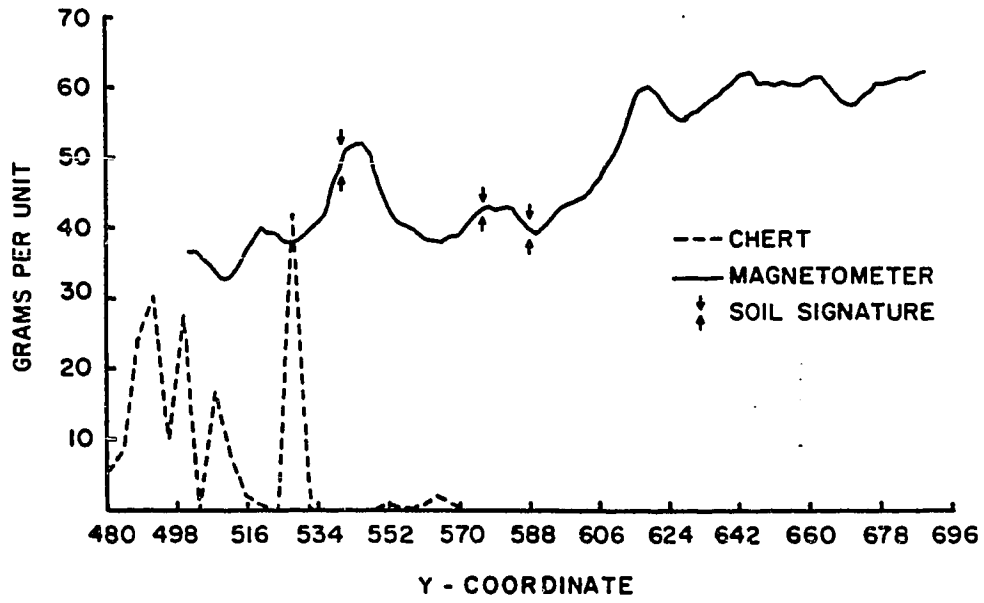


Figure 22 (continued): Magnetic data, artifact distributions, and soil signatures for Transect "C" (Figure 15) at County Line.

particularly from Transect C (Figure 22, Figure 15), show anomalies corresponding to the outer soil signatures. These signatures appear as dark lines separated from the darker enclosed area by lighter soils. The anomalies are approximately three meters apart, coinciding with the dimensions (ten feet) given by Thomas, and may well represent the moat boundaries. If these signatures represent the moat, they are at variance with Thomas' description in that they are not uniform in width and do not appear on all three sides of the enclosure.

Spatial distributions for artifact densities were generated using SYMAP and provide a more comprehensive understanding of the structure for the Mississippian settlement. The distributions for shell tempered ceramics and clay lumps (Figures 24 and 25) follow the interior soil signatures, corresponding to the darker areas of the enclosure. The highest concentrations of clay lumps, which are presumed to originate predominantly, although not exclusively, from building activity, closely correspond to the distribution of shell tempered ceramics. Together, the two strongly suggest an area of domestic activity. At Langdon, fired clay lumps are found in high concentrations along the edge of the soil signatures, just beyond a smaller peak of fired clay lumps and the highest concentrations of shell tempered pottery. This is interpreted as burned wall (Dunnell, personal communication). At County Line, evidence for a burned wall is lacking.

The distribution of bone (Figure 26) is largely confined to the area within the enclosure boundaries with one notable exception. There is a bone concentration just outside the northwest corner of the enclosure and its presence is difficult to interpret. The location of this bone concentration corresponds with a small concentration of sand tempered ceramics (Figure 23) and lithics (Figures 27 and 28). Together, these concentrations could indicate a locus of Woodland domestic activity. Assuming these concentrations are contemporaneous is highly conjectural because bone, which is common to both the Archaic and Mississippian, is conspicuously absent in the Malden Plain archaeological record for the Woodland period. Furthermore, along the northeast edge of the enclosure, approaching the location where

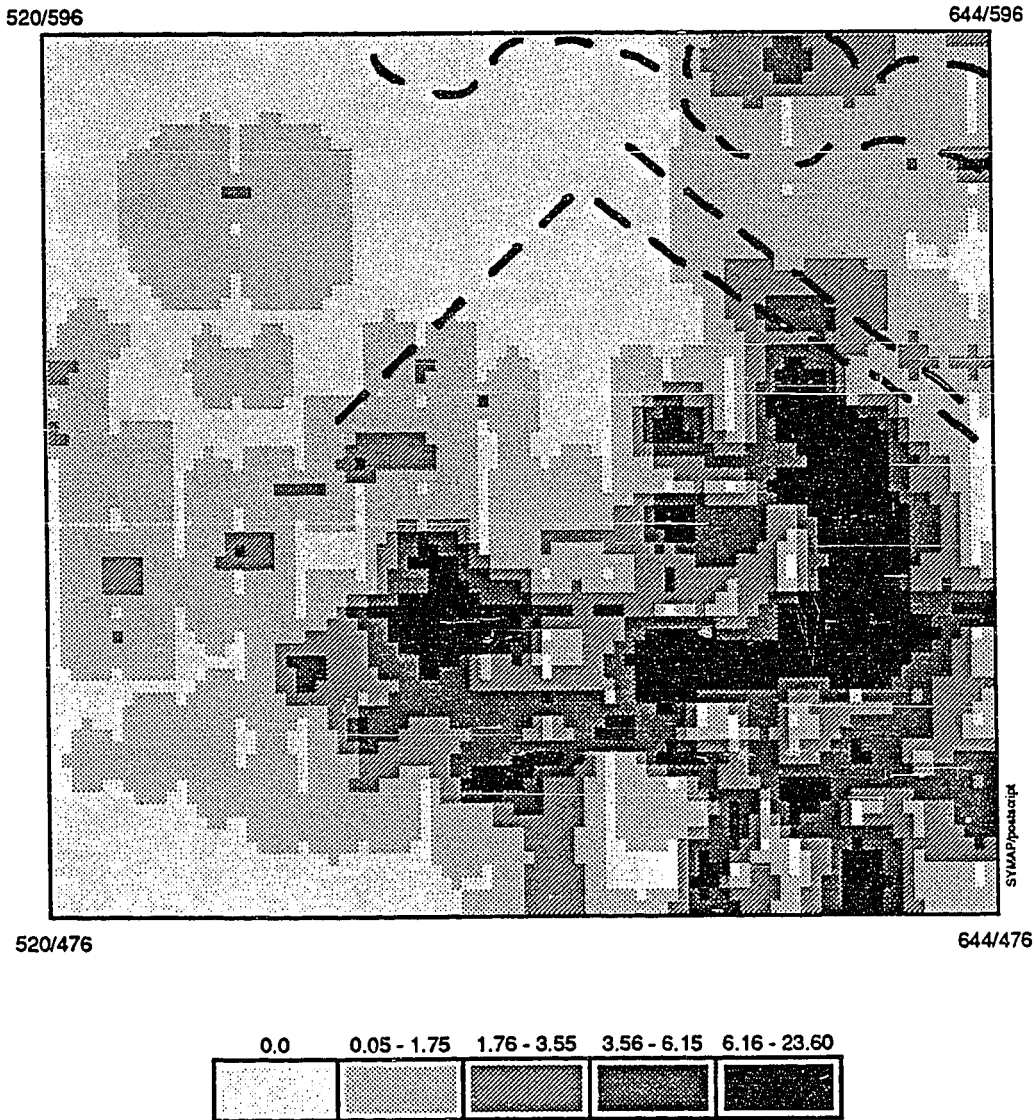


Figure 23: Spatial distribution of sand tempered ceramics at County Line.

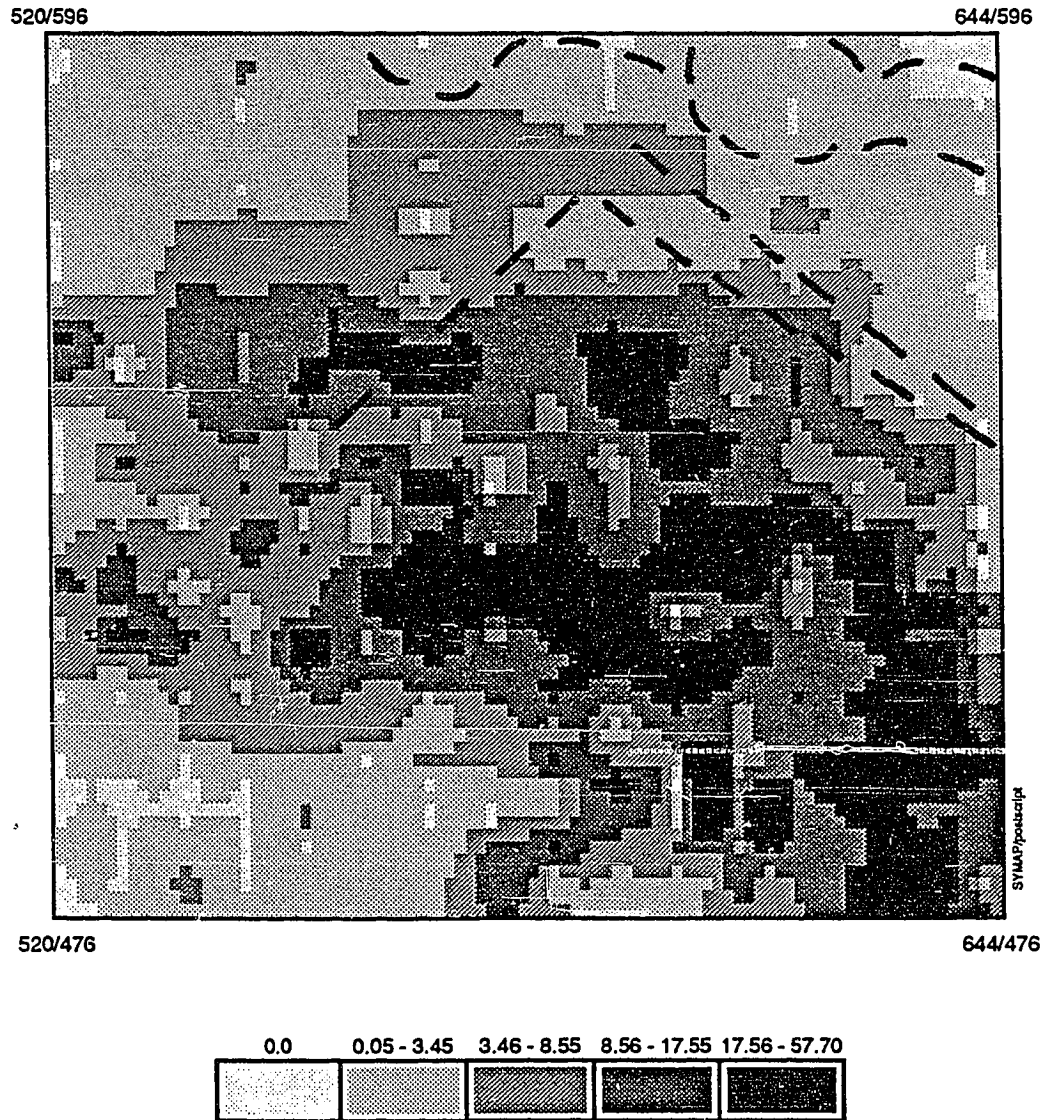


Figure 24: Spatial distribution for relative densities of shell tempered ceramics at County Line.

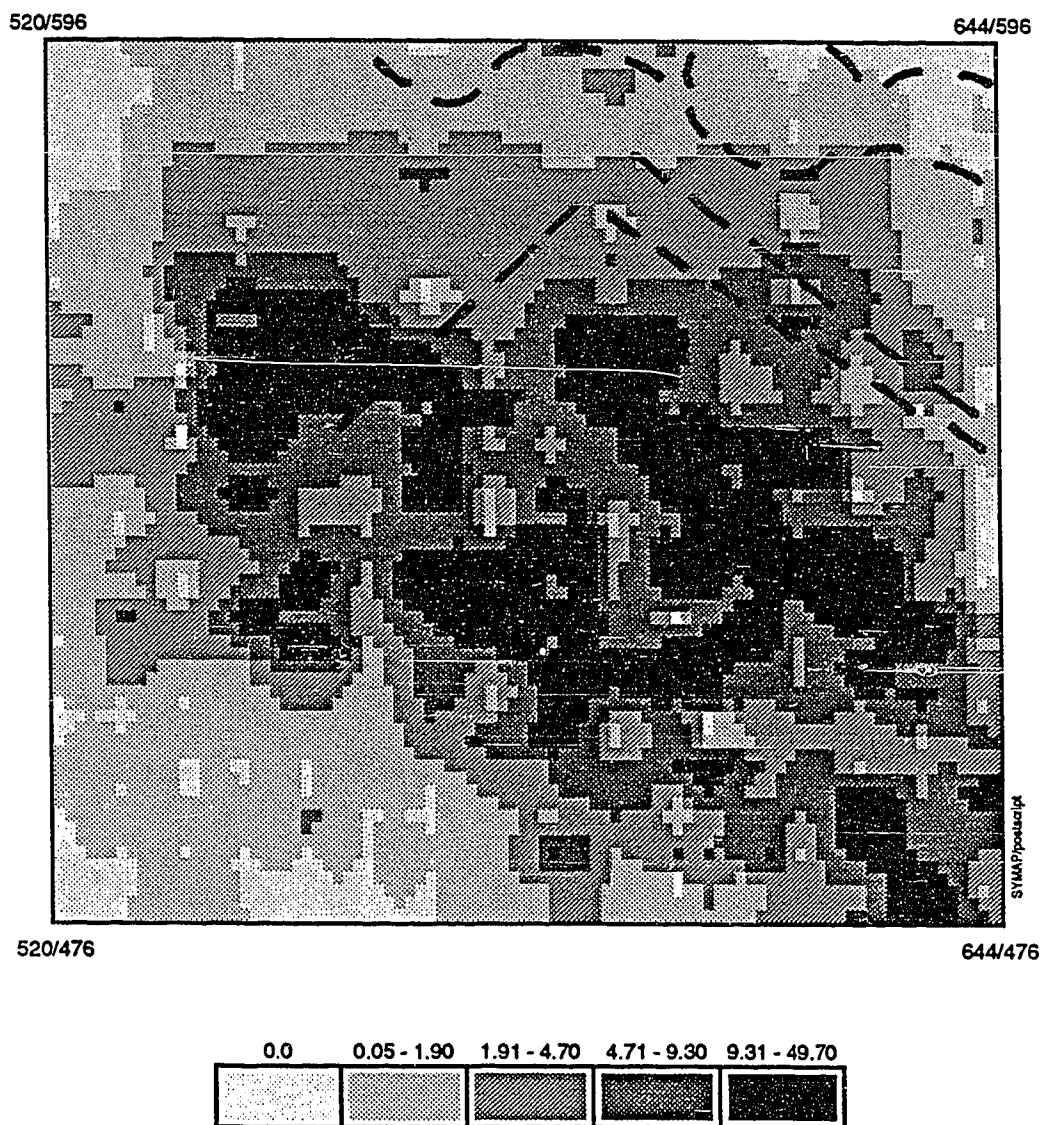


Figure 25: Spatial distribution of fired clay lumps at County Line.

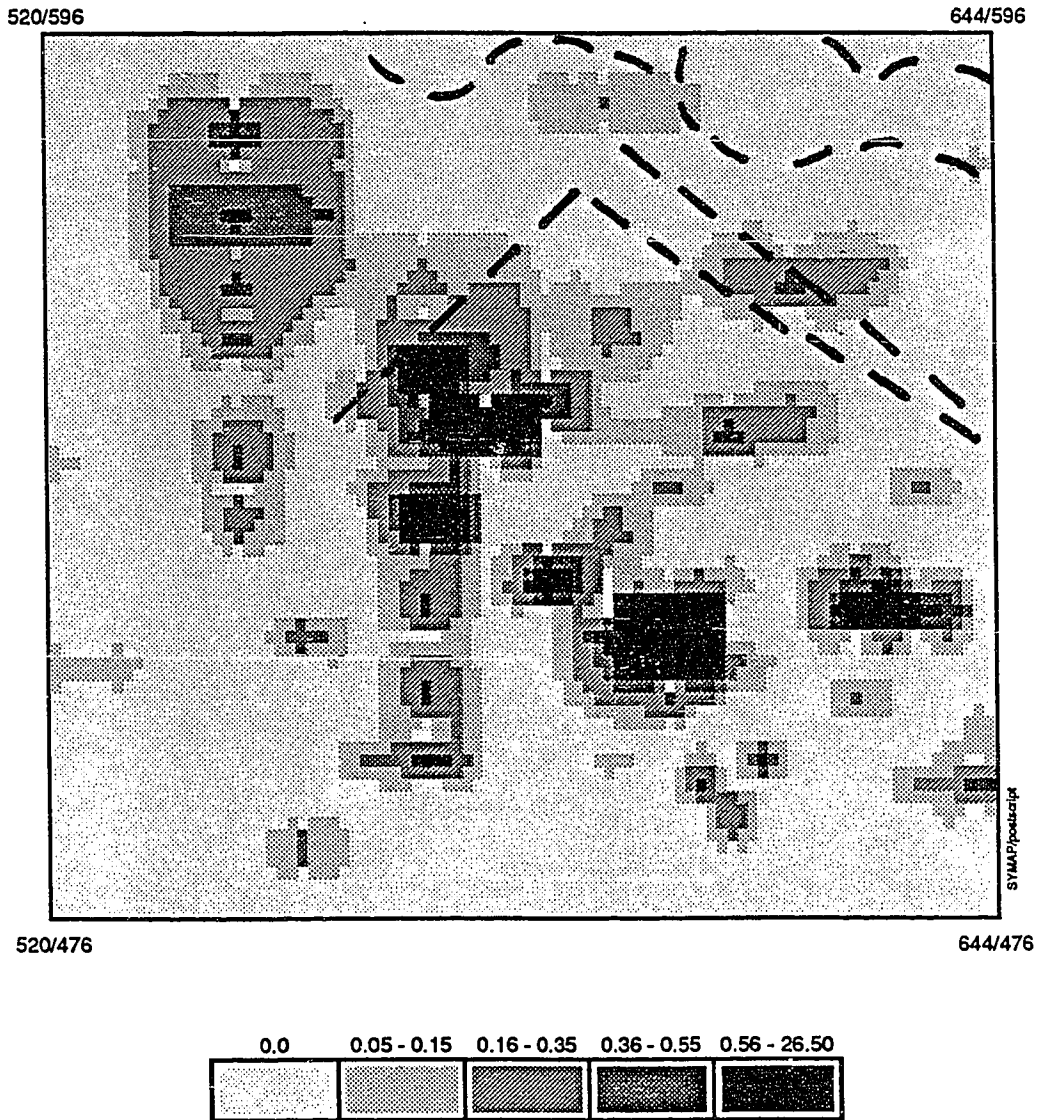


Figure 26: Spatial distribution of bone at County Line.

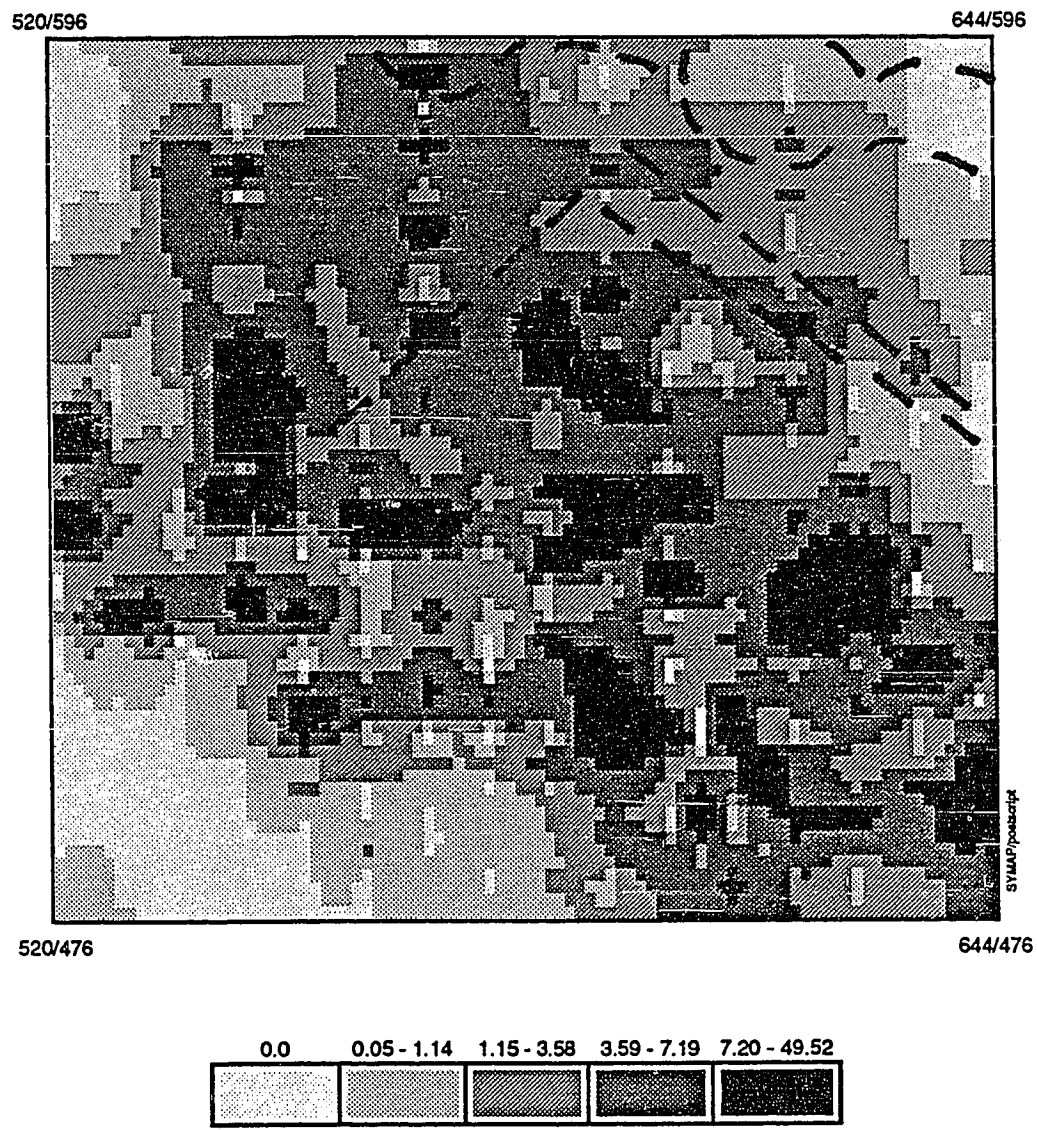


Figure 27: Spatial distribution of lithic artifacts at County Line.

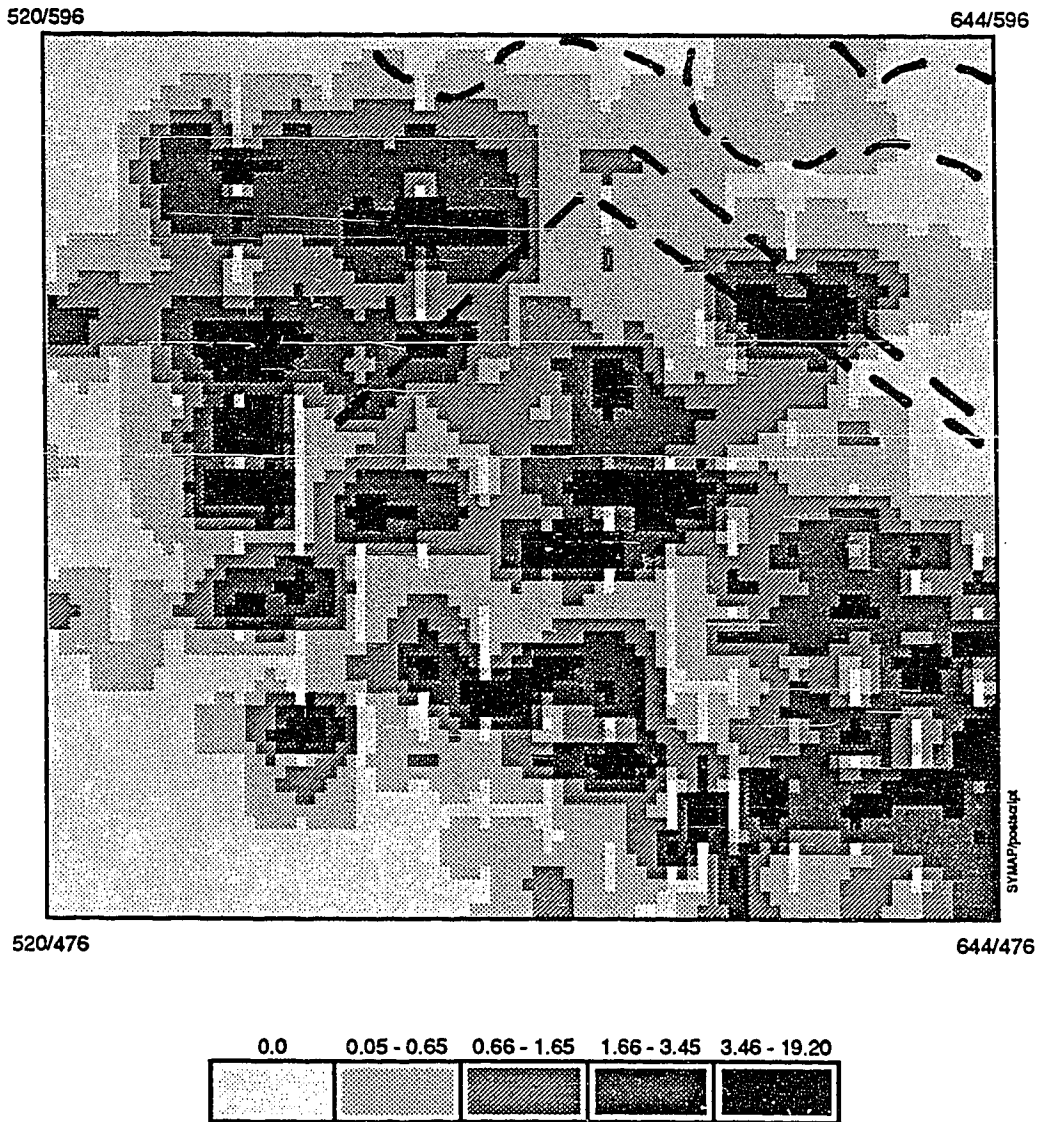


Figure 28: Spatial distribution of worked flakes at County Line.

Thomas' mound could have been located (see Figure 13), there are higher concentrations of sand tempered ceramics and lithics, but bone is absent. I reach no conclusions about the bone concentration outside the enclosure, but do I not think that it is associated with a Woodland occupation. Bone is common enough to the Malden Plain Mississippian record and enough of the Mississippian artifacts extend beyond the enclosure that it may well be associated with that occupation.

The distribution of all chert artifacts is much more extensive than the enclosure boundaries, but it does not necessarily contradict the general pattern of domestic activity suggested by the distribution of shell tempered ceramics and fired clay lumps. An important concentration of lithics, just outside the enclosure boundaries, corresponds with a higher concentration of sand tempered ceramics. When the distribution of worked flakes alone is considered (Figure 28), the pattern conforms more closely to that of shell tempered ceramics and fired clay lumps (although again, there is a notable concentration outside the enclosure at the northwest corner) suggesting that these flakes are related to the other domestic indicators.

Summary

The observations from County Line using soil signatures, magnetic data, and artifact densities combine to form a coherent picture of the County Line Settlement structure. The soil signatures on the aerial photographs confirm the location and general shape of the settlement as reported by Thomas (1894). Results from the magnetic survey along the northern edge of the site are consistent with the moat he described. SYMAPs show consistently high and low density distributions for five major artifact classes (shell tempered ceramics, fired clay lumps, bone, lithics, and worked flakes), and correspond to darker soil signatures on the aerial photographs. Together, these redundant distributions indicate an area of domestic activity within the confines of a specific area defined by the moat. Within the enclosure area, there are corresponding areas with significantly lower artifact densities, lighter soil signatures, and less pronounced magnetic

anomalies. These observations indicate differential usage of the enclosed area. It is quite possible that this area of the settlement was used for non-domestic activities (e.g., a "plaza"), but it is also possible that this area was merely utilized less intensively than other areas for similar domestic activities.

The Cummins Mound Site (23DU2)

Site Environment

The Cummins site is located about one and one half miles west of Kennett, Missouri (Figure 9). The pyramidal mound, which dominates this site, is situated approximately 45 meters west of the bank of the former Varney River and immediately east of a lesser slough (Figure 29). The Varney River has been drained and rechanneled, but the old braided stream channel occupied by the Varney River is still evident along the eastern edge of the Cummins field. The field just to the east, located in the former the Varney River is some .9 meters lower in elevation than the Cummins field itself (Figure 29). The aerial photographs indicate that the field in which Cummins mound is located has recently been expanded to include the adjacent field to the south. Houses and associated structures occupied the extreme northeast corner of the field until 1950, while a house and associated buildings occupied the northeast section of the southern half of the field from 1937 through at least 1966. These areas have very high concentrations of European artifacts, but are now under cultivation.

The General Land Office survey for the vicinity of the Cummins site (T18N R9E) was conducted in November, 1847 and a smaller section was resurveyed in December, 1848. The notes and accompanying plat (Figure 30) indicate that the Village of Chillittacaux, later to become the town of Kennett, had been established by 1847. Along the northern boundary of T18N R9E at Sections 1 and 2 the surveyor recorded the County Courthouse and Clerk's Office. Numerous European settlements and wagon roads, all lying to the east of Varney River and Raglin Slough are also recorded through the eastern portion of the Township.

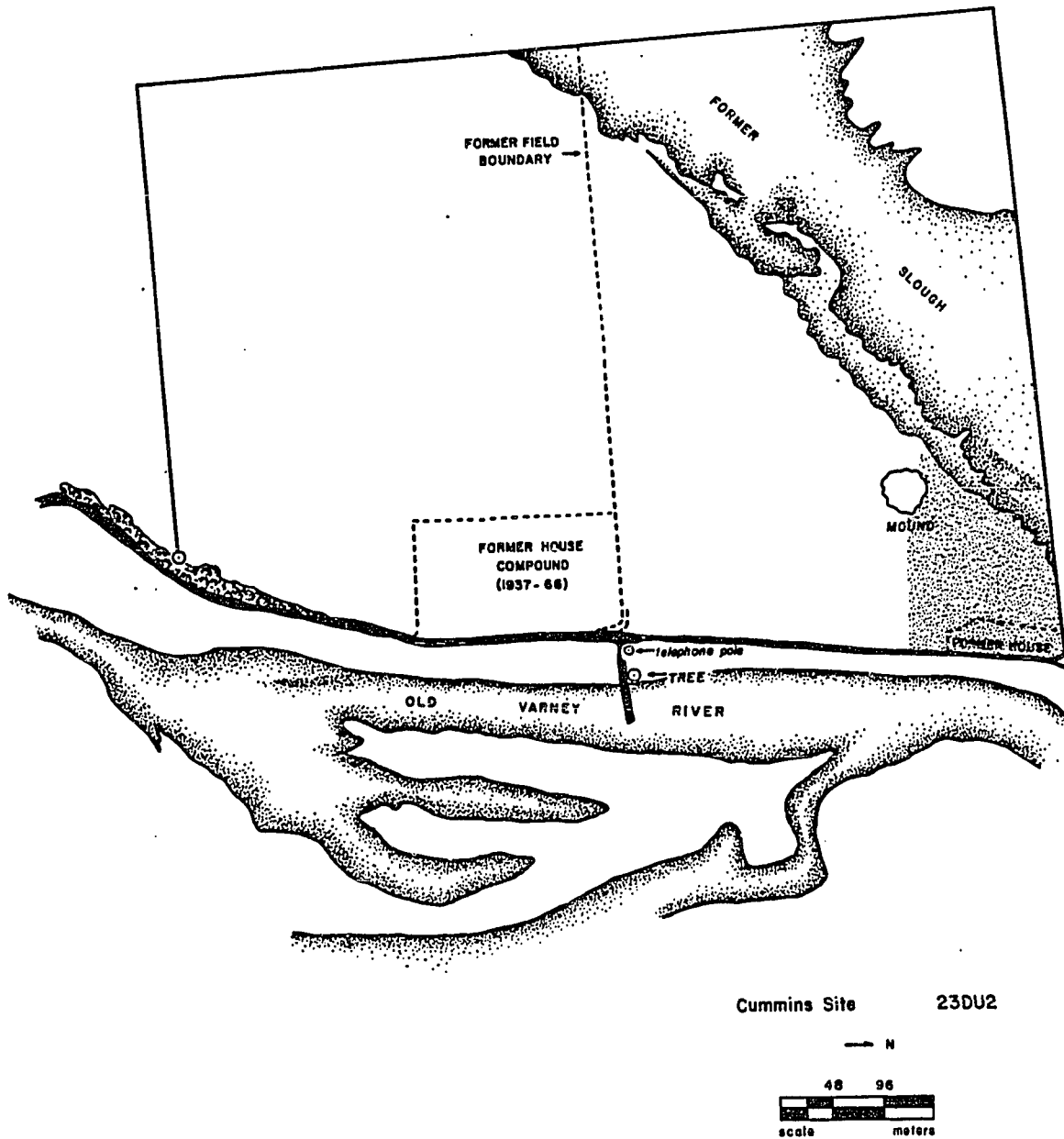
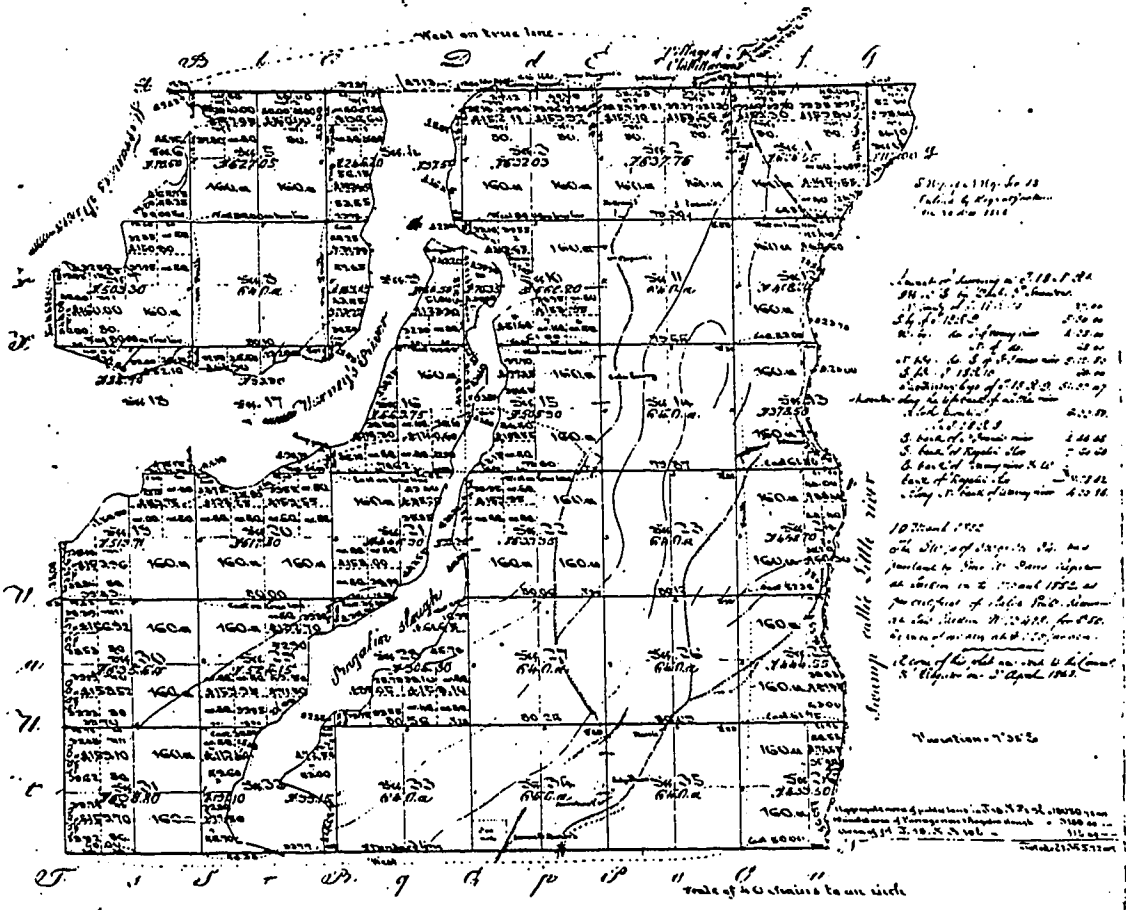


Figure 29: Cultivation and land use for the Cummins Mound Site, 1984 (Map prepared from 1937, 1950, and 1966 ASCS 1:20,000 aerial photography and ground survey).

Township 18^N Range 9^E north of the base line (Range 9^E east of the 5th principal Meridian



Township office, Saint Louis 5th April 1849.

The township of fractional township 18 north of the base line of range 9^E east of the 5th principal Meridian is hereby confirmed to the full extent of the survey thereof on file in the office which has been examined and approved. A full list of the townships, as defined in the original returns, was prepared in October and November 1847; by Daniel P. Johnson, under the contract of the 15th September 1847. The work is subject to our control, approved by me, recorded by Mr. Johnson, and transmitted to the Department of the Interior with the instructions of the 15th September 1847. A full survey thereof for a district returned to the Survey Department, and the result of the appropriation of \$ 4150 of the 18th August 1848, and \$ 2500 of 2nd March 1848, for surveys on the actual state of the land, East of the section or 8th S. per act.

A copy of this plat was sent to the Commissioner of the General Land Office.

J. L. Crossland
Surveyor of the Public Land

Figure 30: General Land Office Plat for Township 18N Range 9E (1849).

Areas west of the Varney River and east of the St. Francis, where the Cummins site is located, had not been settled and thus the GLO notes give a general indication of the environment surrounding Cummins Mound prior to forest clearance.

The Cummins site is situated in the western portion of Section 4 on relatively high ground between the Varney River and an unnamed, unrecorded slough. The GLO survey notes refer to this area as Two Mile Island, but according to the U.S.G.S. (1956) 15 minute Kennett Quadrangle, Two Mile Island is located further south. The GLO descriptions for the northeast portion of Section 4 are quite complicated as this area includes a small island around which the Varney River waters ran. The area was quite wet, presenting somewhat of a challenge for the surveyor, and judged "unfit for cultivation". In approaching the eastern bank of the Varney River along the northern boundary of the Township at Sections 3, the surveyor noted:

left bank of Varneys River a dull stream made by water that runs out from St. Francis River about five miles North of this point and for want of a channel or banks to confine the water it spreads over the flat country between it and St. Francis River from one quarter to two miles wide making numerous small islands and over the ground where it spreads the water is from one to ten feet deep (GLO 1847)

For the northeast corner of the section (Figure 31), marker trees and timber descriptions include those which are characteristic of permanent swamp conditions: Cypress (*Taxodium distichum*), Tupelo gum (*Nyssa aquatica*), cow oak (*Quercus Michauxii*), and ash (*Fraxinus* sp.).

Upon crossing the Varney River from the east, the surveyor recorded that he entered "dry land being what is called the two Mile Island". Marker trees (Figure 31) survey descriptions indicate drier conditions for the western portion of Section 4. At the northwest corner, the surveyor noted that "land on Island very rich soil fit for cultivation. Timber Black Oak, White Oak, sweet gum, sassafras, undergrowth briars and vines" (GLO 1847). The description also included elm (*Ulmus* sp.), maple (*Acer* sp.), and hackberry (*Celtis* sp.).

The environment of the Cummins site is diverse and complicated. The vegetation and hydrology of this area clearly reflect the subtle

changes in elevation resulting from the braided stream topography. The site itself is situated in a location that may have been free from seasonal inundation, but its areal extent was limited in size as it was surrounded by both permanent and seasonal swamps.

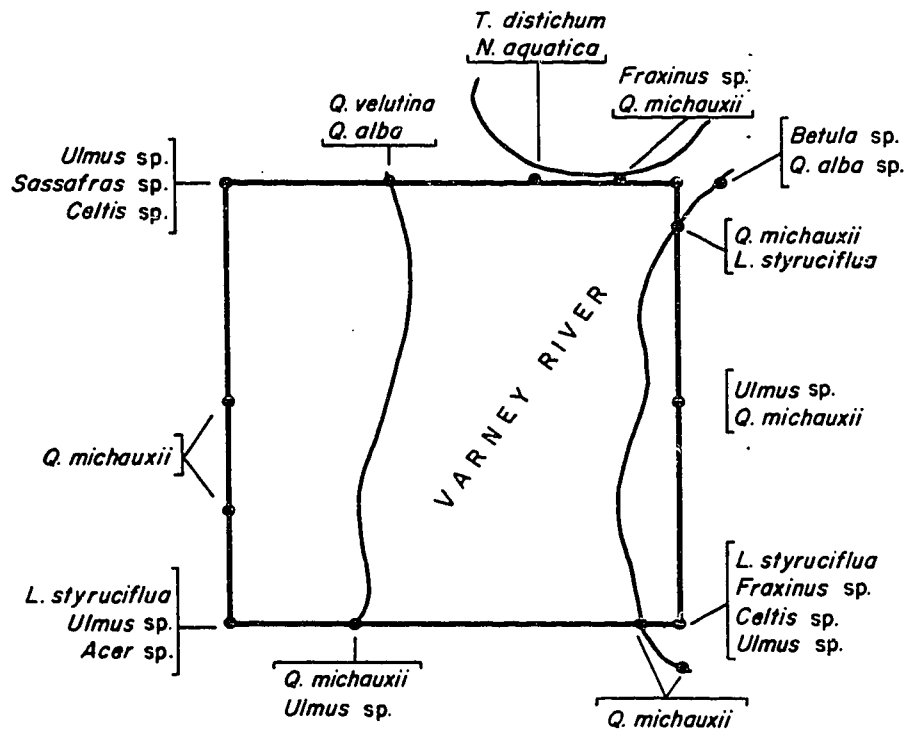


Figure 31: Marker trees identified in the General Land Office Survey for Section 4, Township 18N, Range 9E.

Prior Research

The Cummins site is well known because the mound, which has not been leveled, is fairly large and it is located only a mile from Kennett. The mound is heavily overgrown by trees and vines, giving it an even larger and more dramatic appearance. S. Williams (1954) identified a village surrounding the mound, although the results of his

fieldwork were inconclusive. Although Williams obtained a surface collection of 346 sherds (Table 13) he indicates that work was hampered by poor surface conditions.

Table 13: Sherd assemblage reported for the Cummins site by S. Williams (1954).

<u>Baytown Complex</u>	<u>Count</u>	<u>Percent</u>
Barnes Plain	5	1.45
Barnes Cordmarked	15	4.34
<u>Mississippian Complex</u>		
Mississippi Plain	313	47.59
Bell Plain	6	1.73
Kimmswick Plain	3	.87
Kimmswick Fabric Impressed	1	.29
Unidentified Incised	3	.87
Total	346	100.02

Several large bifacially chipped hoes are reported to have been recovered from this site by a local collector (W. Davidson, personal communication). Collections from this site have also been made by Mr. and Mrs. W. Davidson.

Fieldwork

In 1984, a small segment at the north end of the field was planted in milo. This segment extended roughly from the south edge of the mound north to the edge of the field, and west to the former slough. Where it was planted, milo had filled the rows. Since there was little access to the surface, it could not be efficiently examined. The milo was planted in only a small portion of the field and covered only a portion of the reported settlement. The former slough was not planted but plowed and kept free of weeds. The remainder of the field was planted in cotton (Figure 29). Thus, except for the area planted in milo, visibility was excellent.

Beginning at the northern edge of the cotton, every 15th crop row (13.5 meter intervals) was traversed to locate the extent of the Mississippian occupation. This was continued until no artifacts were observed for 60 meters. Artifact density appeared highest in a small area about 150 meters southeast of the mound but in general, only low densities of artifacts were observed. The field was examined a second time in a similar fashion using a spacing of every 10th crop row (9 meter intervals) using a different starting point, and similar observations were made. These observations were at variance with the "village" reported by Williams. Consequently, the milo area was examined briefly. Although a great deal of historic debris was observed, very few prehistoric artifacts were found.

The failure to locate high concentrations of artifacts suggested two possibilities: 1) the major portion of the settlement was located to the northeast of the mound and could not be seen because of the milo crop; or 2) since there had been no rain for about a week, and the sediments were particularly powdery, surface conditions were not conducive for identifying artifacts. In light of the second possibility, work was resumed after the next rain.

After repeating another survey by walking every 10th crop row for the entire field, similar observations to those the previous week were made. At this time, boundaries for the low density artifact concentration surrounding the mound were defined and mapped (Figure 32). A grid system was generated and artifact collection was initiated in four by four meter units along two transects (Figure 32;A and B) placed 48 meters apart. These transects were placed to include the area identified during initial examination as having relatively higher artifact concentration. They were extended in an east to west orientation to include the edges of the concentration. Five shorter transects, 48 meters long and placed at four meter intervals between the two longer transects, were also collected. Artifact collection was terminated when cultivation of the field began. By this time 145 units had been collected (Figure 33).

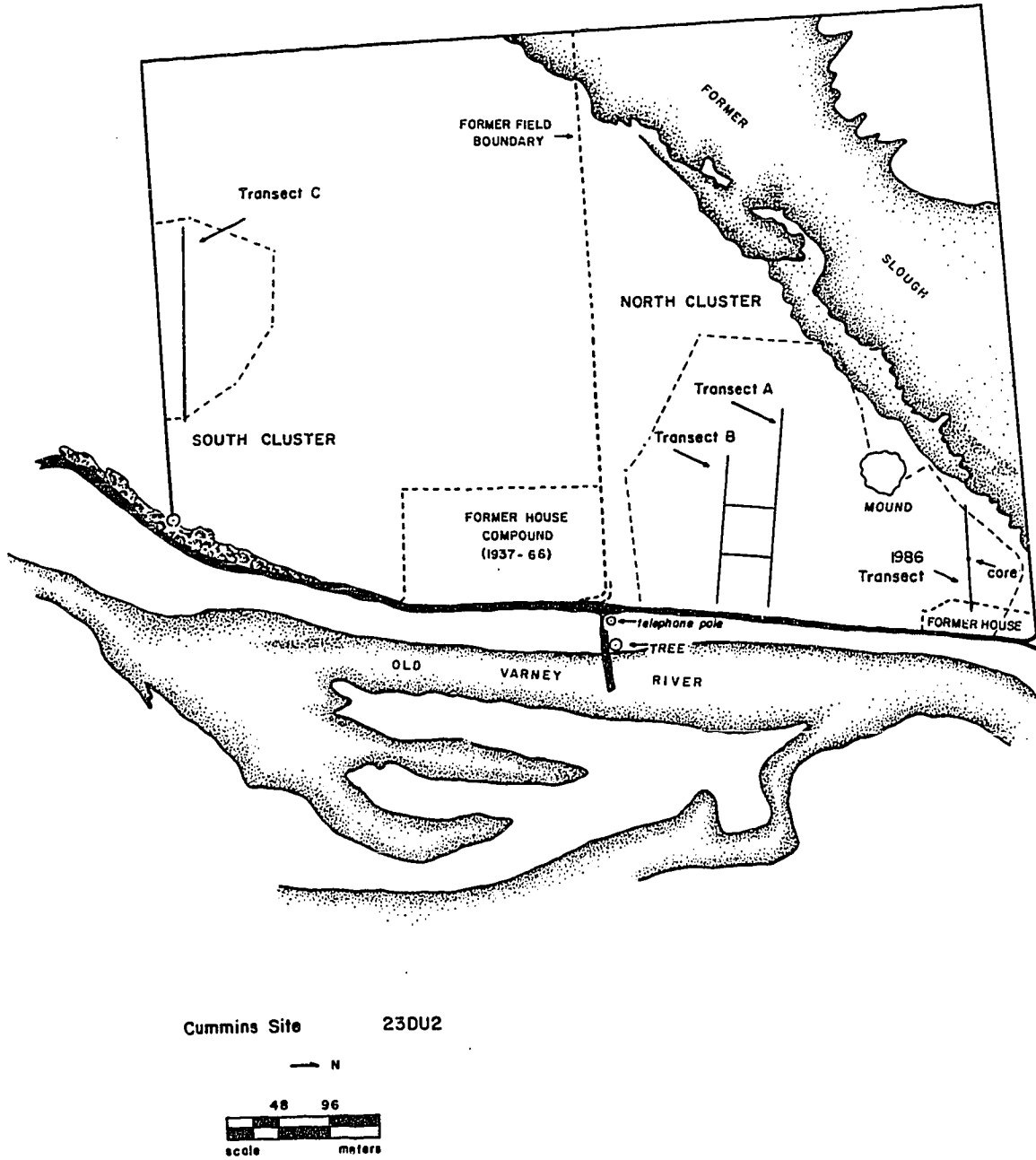


Figure 32: Location of fieldwork at the Cummins Mound site. Area within box refers to mapped area.

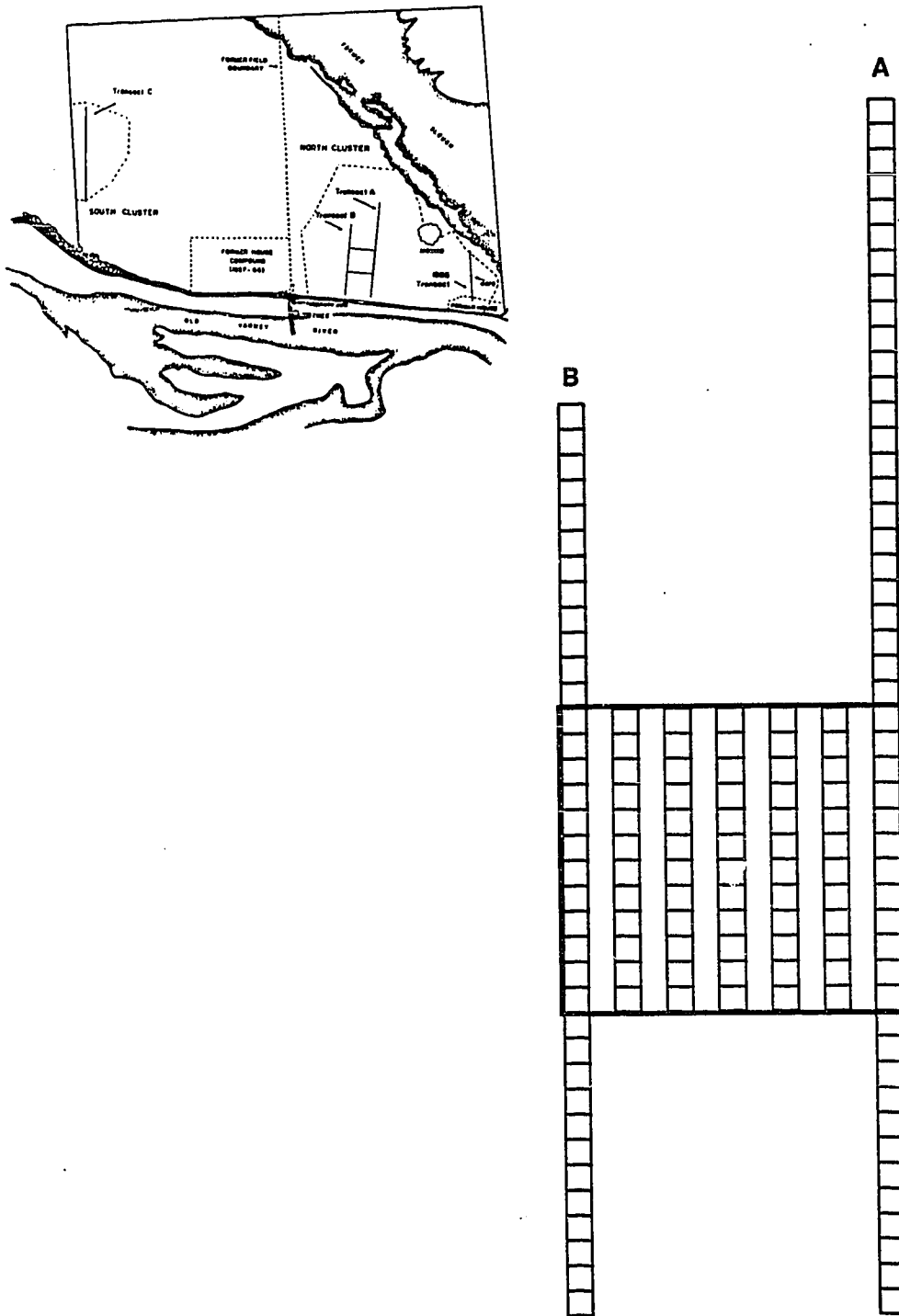


Figure 33: Grid system for systematic controlled surface collection at Cummins. Area within box refers to mapped area.

During the initial survey of the field, another small, low-density concentration of artifacts was observed at the extreme south end of the field. Since the south half of the field was only recently added to the field in which the Cummins mound is located, it is unlikely that this artifact concentration was included within the original definition of the Cummins village. Boundaries of this concentration were defined and a single transect was collected in four by four meter units (Figure 32). This transect was 192 meters long and included an additional 48 collection units.

One of two interpretations could account for the observations made at the Cummins site. Either the major portion of the "village" was located in the milo field, or the mound was not associated with a dense, well defined midden that could be described as a village. To evaluate the first possibility, arrangements were made to examine the relevant segment of the field in June, 1986.

In 1986 the entire field was planted in cotton and the surface was visible. Although our visit was postponed until the last possible opportunity, there had been no rain for over two weeks and conditions were not suitable for surface collection. Nonetheless, it was possible to obtain topographic data for this segment of the field and the mound (Figure 32). In the process, artifacts were observed and it was possible to define the character and limits of the artifact scatter.

A 100 meter transect was placed along a crop row (Figure 32). Sediment samples were collected at 10 meter intervals, cores were taken at 10M, 30M, 50M, 70M, and 90M, and finally, artifacts were collected in units that extended one meter to either side of the transect and 4 meters in length. While taking topographic measurements in this area, limits of the artifact scatter were noted.

Data Considerations

In spite of diligent efforts, no artifact concentrations that could ultimately be construed as a "village" were identified in proximity of the Cummins mound. Rather, two relatively low density

scatters of artifacts were observed: one located in the area surrounding the mound; and another at the extreme south end of the field, some 600 meters away.

The boundaries of both clusters were defined and mapped (Figure 32). Limited controlled surface collections in both areas were possible. For the north part of the field, which was not visible during the 1984 field season, topographic information and cores along a 100 meter transect were taken.

Information from the cores augment the surface observations. Only a single core (Figure 32) could be extended beyond the plowzone. This core was extended to a depth of 110 centimeters below the surface. An organically stained stratum, beginning just below the plowzone at a depth of 24 centimeters and extending to 33 centimeters, was encountered. This could be an indication of undisturbed midden but may also be a feature. It is highly localized in areal extent as other cores taken within 20 meters along the same transect could be extended only to a depth of 22 centimeters below the surface where highly compact, fine grained sand prevented the core from being extended any further.

Consequently, the association of the artifact concentrations with the mound or with each other is problematic on structural grounds. The low density character of the artifact scatter resulted in small numbers of artifacts, preventing association of the mound and artifact concentrations on formal grounds as well. The small sample size of artifacts obtained from investigations at Cummins renders inter-assemblage comparisons problematic.

The Cummins Settlement

There are few aids for interpretation of the Cummins site settlement structure. There are no 19th Century descriptions of the site. Soil signatures on the aerial photographs record former water courses, but other than the presence of the mound, none that can be attributed to archaeological disturbance. This is consistent with the

failure to find a village. Interestingly, Williams' (1954) observations on the Cummins village were also inconclusive.

The Cummins site owes its high visibility to the relatively large platform mound. The mound is constructed of a light grey clayey sediment, probably borrowed from the adjacent slough. It measures 4.9 meters high. It has been extensively dug, as there are many holes on the top of the mound, several of which are over five feet deep. Large trees grow from the sides of these holes, indicating that the digging has not been recent. Consequently, it is difficult to relate the present layout and structure to its original condition. The west side of the mound is considerably steeper than the east. Since the sides of the mound have not been altered, it is likely that a ramp extended from its east side. This is also suggested on the aerial photographs.

Domestic debris (e.g., sherds and lithics) was found surrounding the mound on all but its northwest side, where the former slough provides a consistent boundary beyond which no artifacts were observed during either visit to the site.

Sand tempered sherds characteristic of a Woodland period Barnes occupation are included in the assemblages indicating that more than one occupation is included within the boundaries of the artifact scatter. Artifact frequencies along transects A and B (Figure 33) do not show a distinct spatial segregation between shell and sand tempered ceramics (Figures 34 and 35).

Factors other than historical association could contribute to the lack of spatial segregation for sand and shell tempered ceramics. There are few areas where Mississippian settlements occur without the presence of earlier Woodland occupations. This does not reflect similar subsistence or settlement patterns, because there are many instances where Woodland materials are found where there are no Mississippian materials. However, both Woodland and Mississippian populations were obviously attracted to dry locations and more highly elevated areas provided drier habitats. Consequently, higher artifact densities are expected to correlate with higher elevation without necessarily implying that the occupations responsible are historically

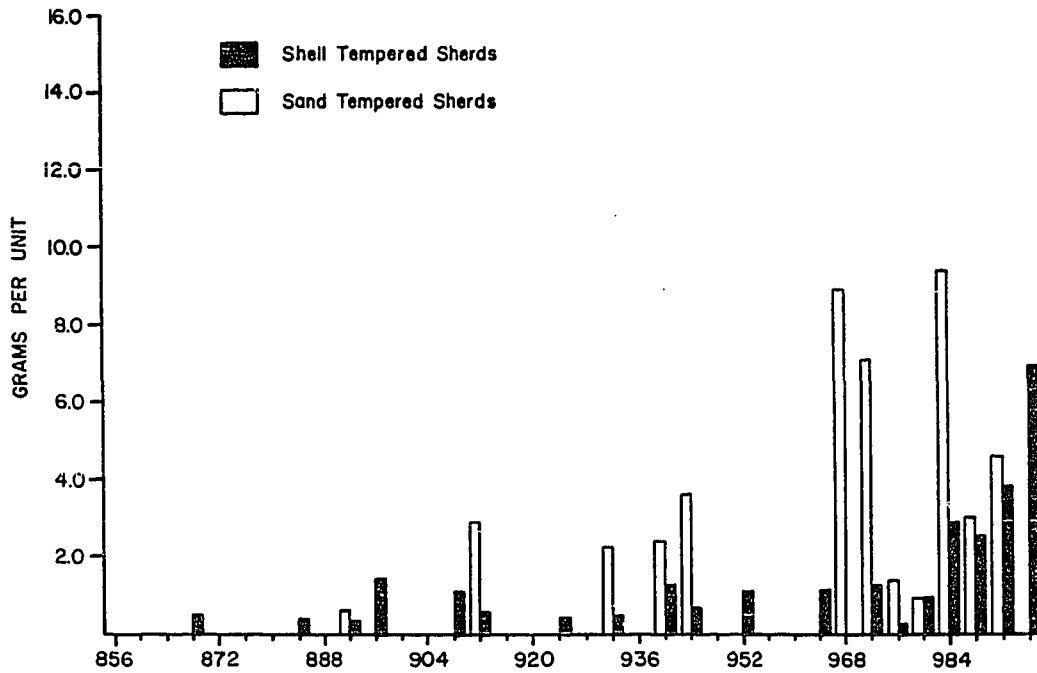
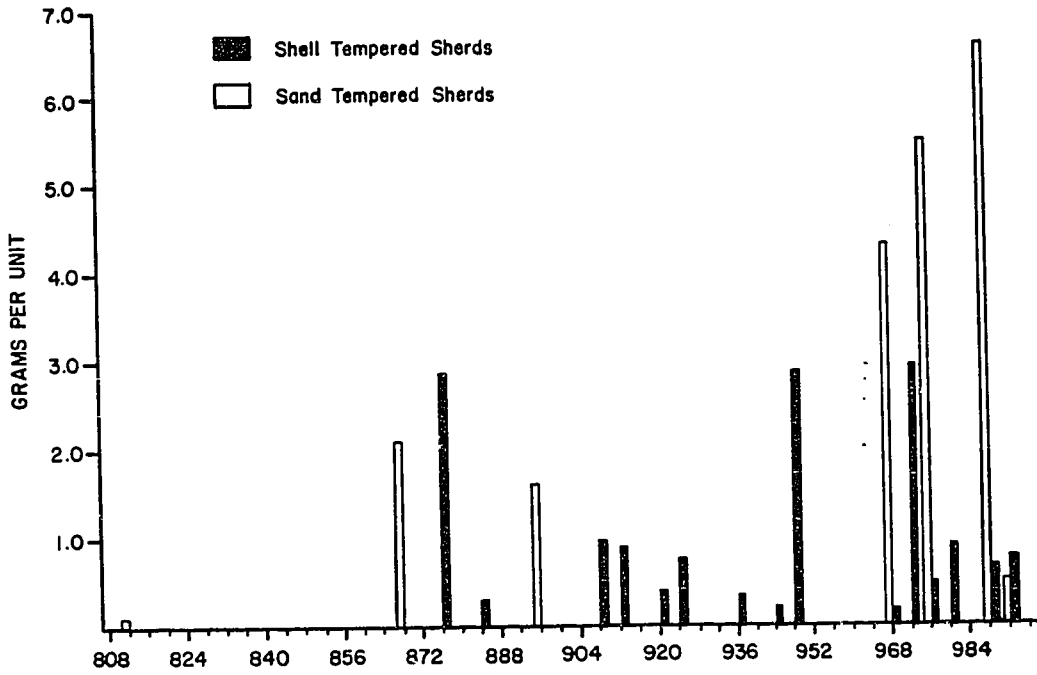


Figure 34: The distribution of shell and sand tempered sherds across Transects A (top) and B (bottom) at Cummins (non-eroded sherds only).

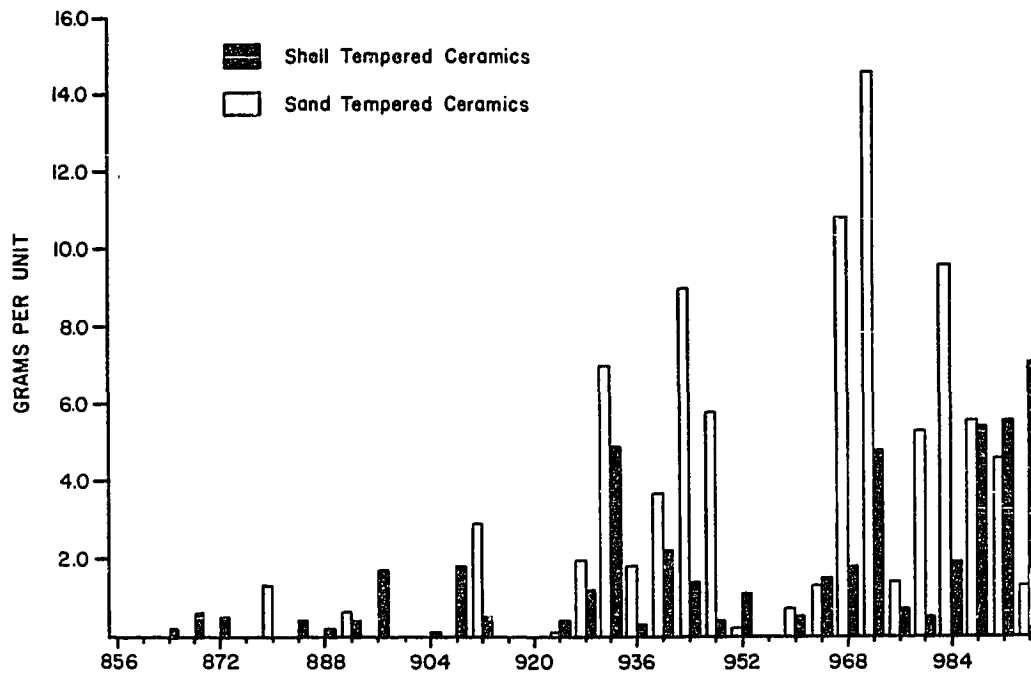
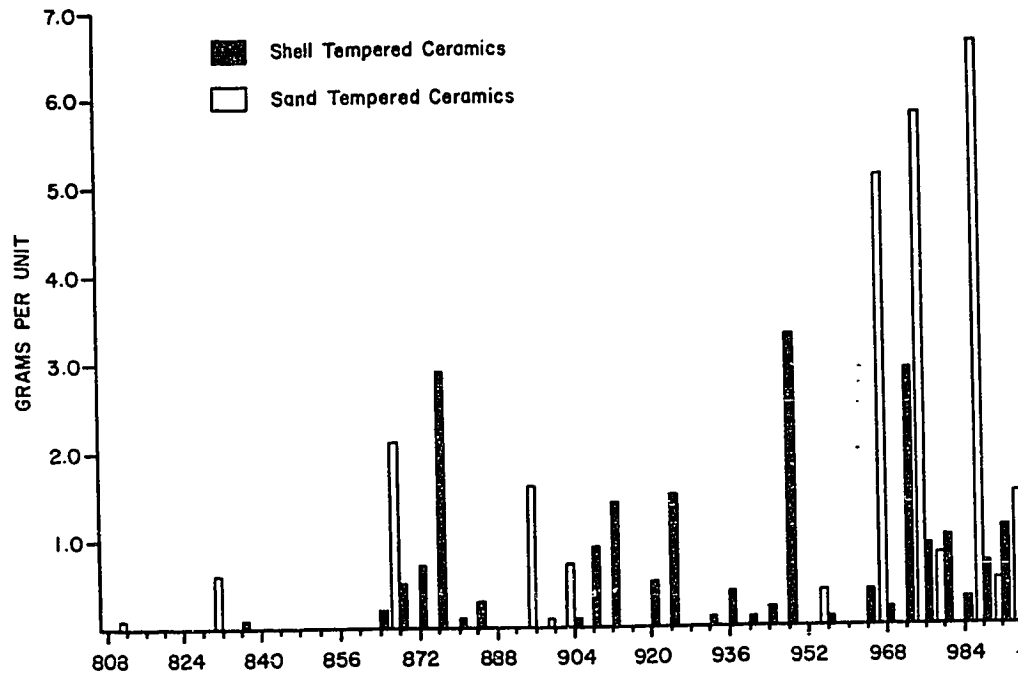


Figure 35: The distribution of shell and sand tempered sherds across Transects A (top) and B (bottom) at Cummins (including eroded sherds).

factor is compounded by the limited "window" provided by the transects themselves.

The transect data (Figures 34 and 35) do show that the distributions of sand and shell tempered sherds overlap. The situation becomes less ambiguous when distributions of various artifact classes are mapped over the small collection area between and including portions of the two transects. The mapped area is 48 x 48 meters and includes that portion of Transects A and B between the 904 and 952 meter interval (Figure 33). The spatial distributions for seven artifact classes were generated using SYMAP (Dougenick and Sheehan 1975). In comparing the distribution of shell and sand tempered ceramics (Figures 36 and 37), the overlap, when considering the transects alone, becomes less evident as the shapes of the two distributions are distinctively different. The distribution of fired clay lumps (Figure 38), which can be expected to originate from a variety of sources (e.g., hearths, and building materials) are confined to a well defined cluster that overlaps with the sand tempered ceramics, but conforms more closely to the distribution of shell tempered ceramics. On the other hand, the distribution of lithic artifacts (Figure 39), is wholly different than the distribution of either the sand or shell tempered sherds.

The distributions of historic artifacts, (glass, metal, and ceramics (Figure 40), sandstone pebbles (Figure 41) and smooth unmodified chert and quartz pebbles (Figure 42) show little resemblance to those for the prehistoric artifacts or each other.

More limited observations were made for the small cluster of artifacts at the southern edge of the field. The artifact assemblage collected from the transect (Transect C, Figure 32) includes both sand and shell tempered sherds. Structurally, the two kinds of artifacts overlap in their spatial distributions (Figure 42). On formal grounds, there are no early Mississippi ceramics in the assemblage that would tie them together. Consequently, it is unlikely that these two different kinds of ceramics represent a single occupation.

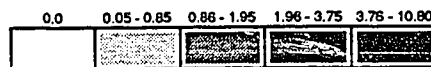
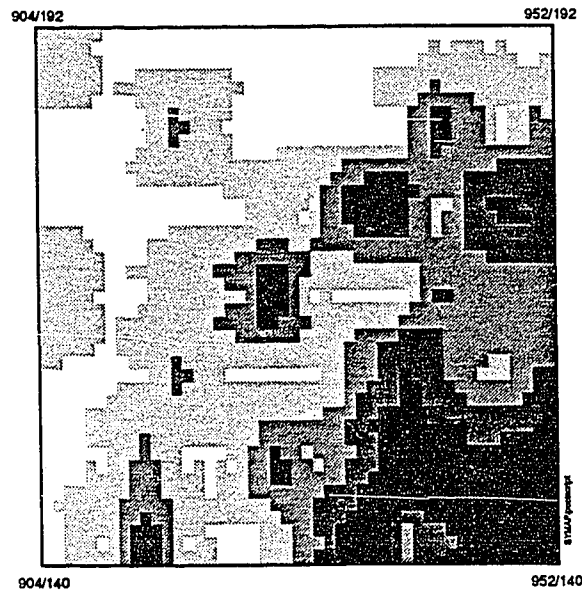
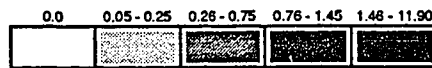
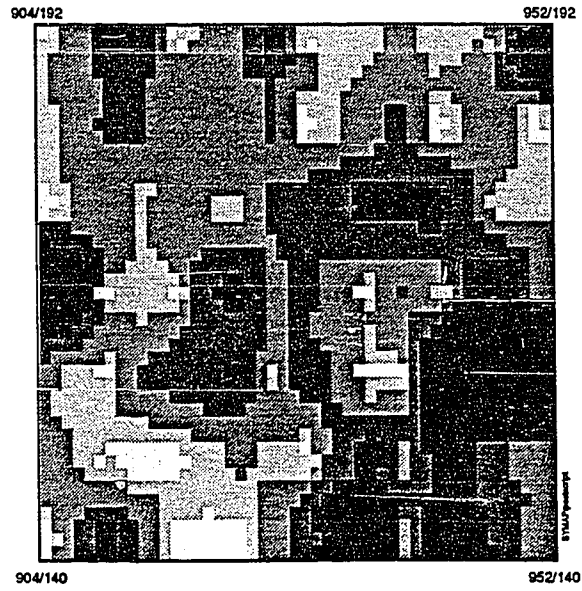


Figure 36: The spatial distribution of shell (top), and sand (bottom) tempered ceramics at Cummins (non-eroded sherds only).

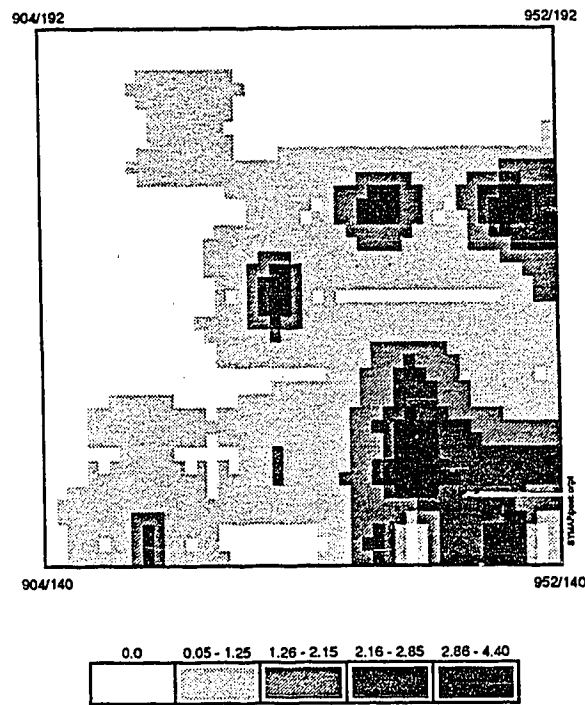
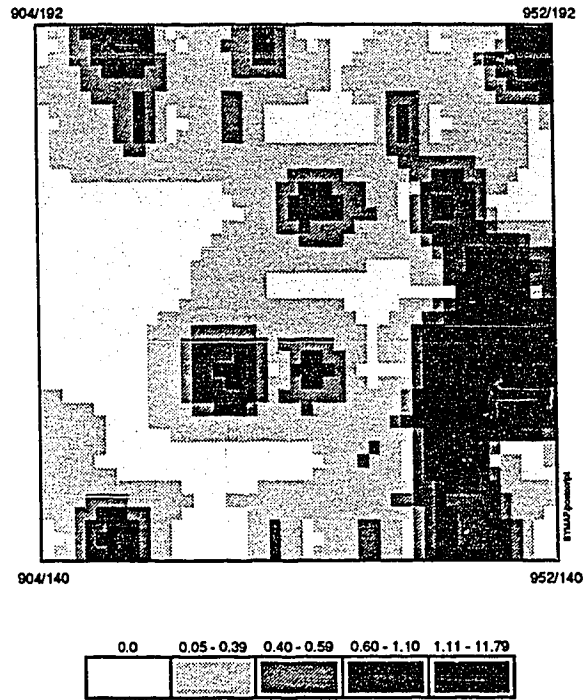


Figure 37: The spatial distribution of shell (top), and sand (bottom) tempered ceramics, at Cummins (including eroded sherds).

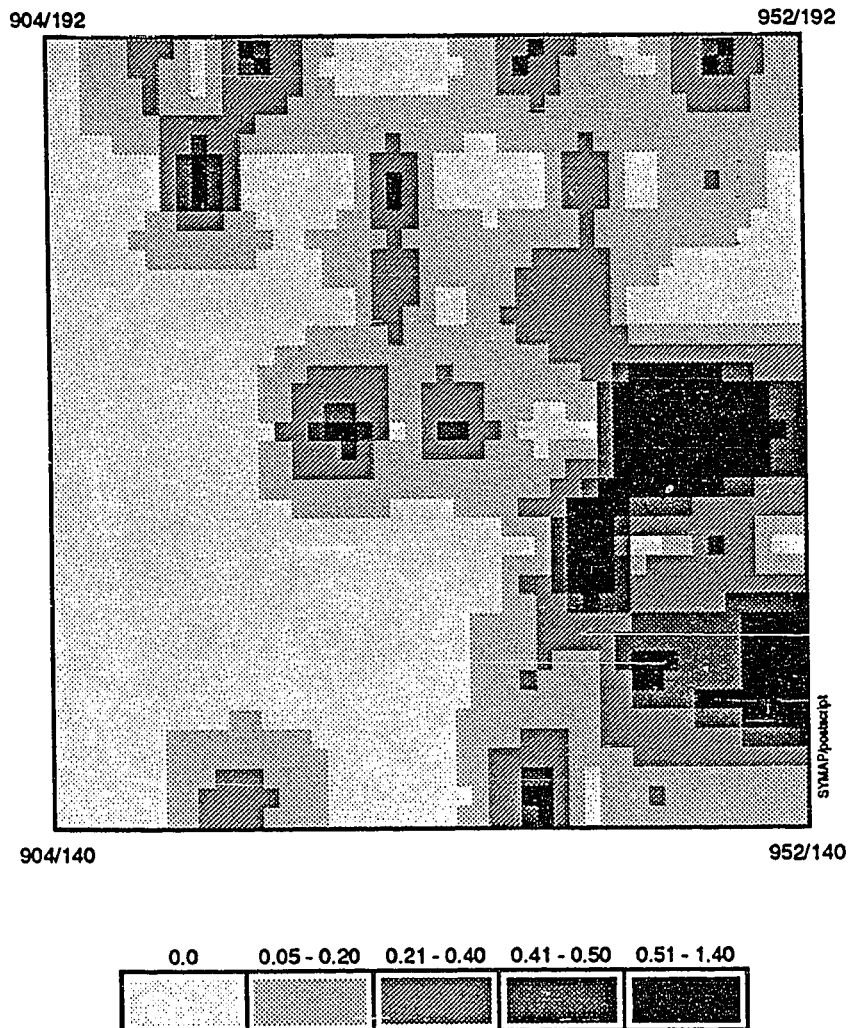


Figure 38: Spatial distribution of fired clay lumps at Cummins.

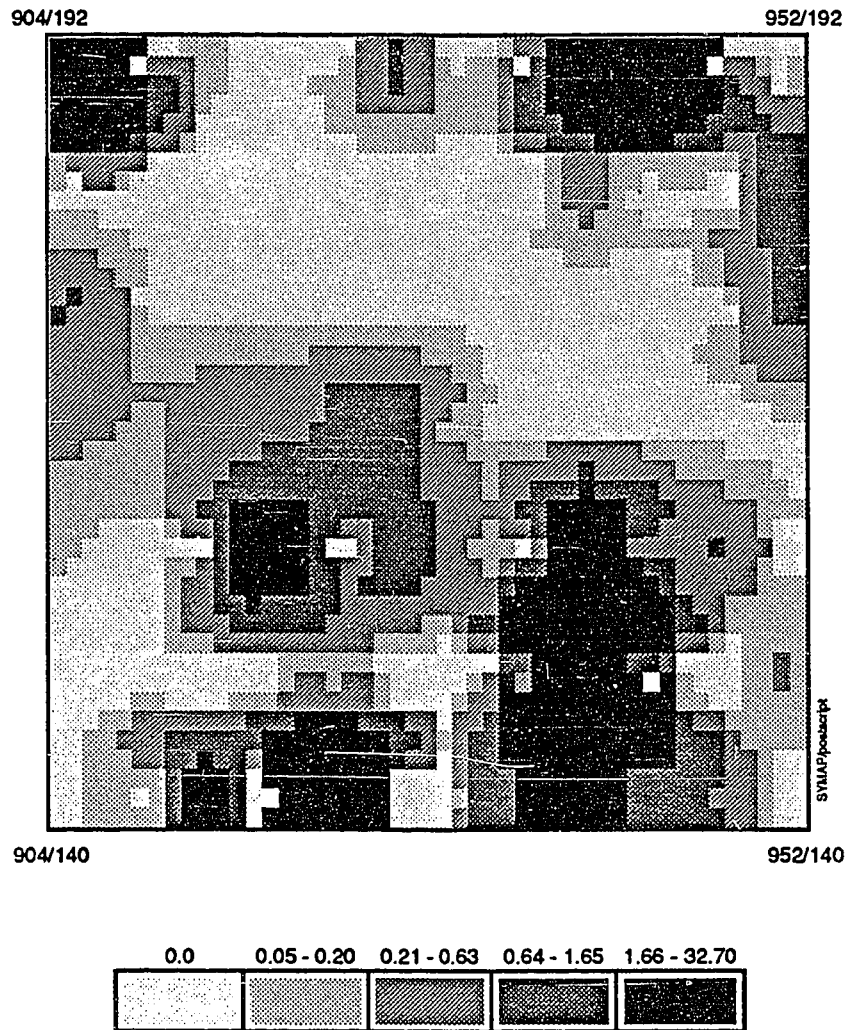


Figure 39: Spatial distribution of lithic artifacts at Cummins.

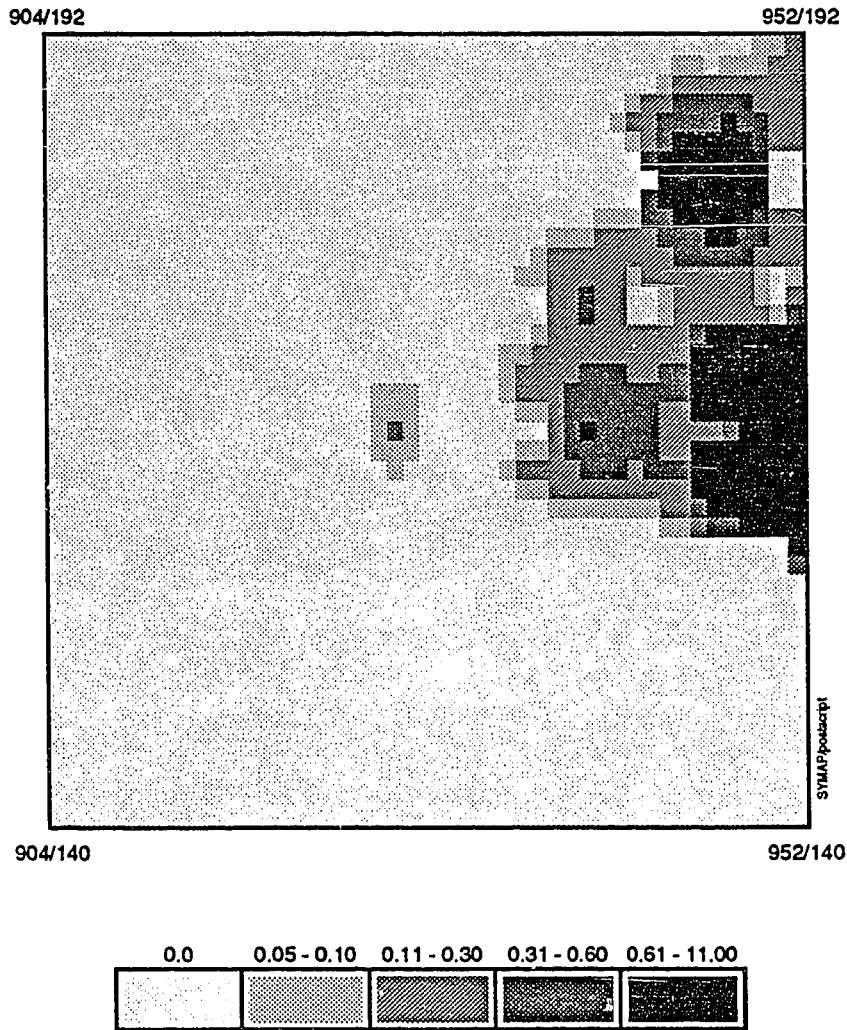


Figure 40: Spatial distribution of historic artifacts at Cummins.

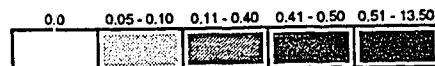
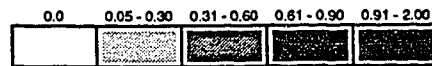
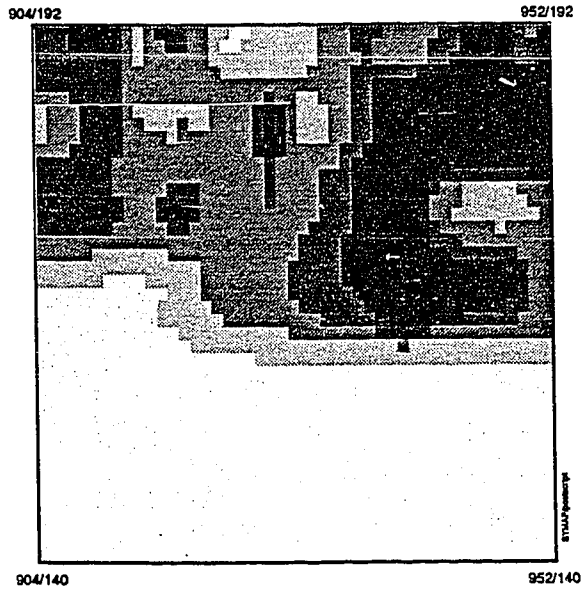


Figure 41: Spatial distribution of smooth chert and quartz pebbles (top), and of sandstone pebbles (bottom) at Cummins.

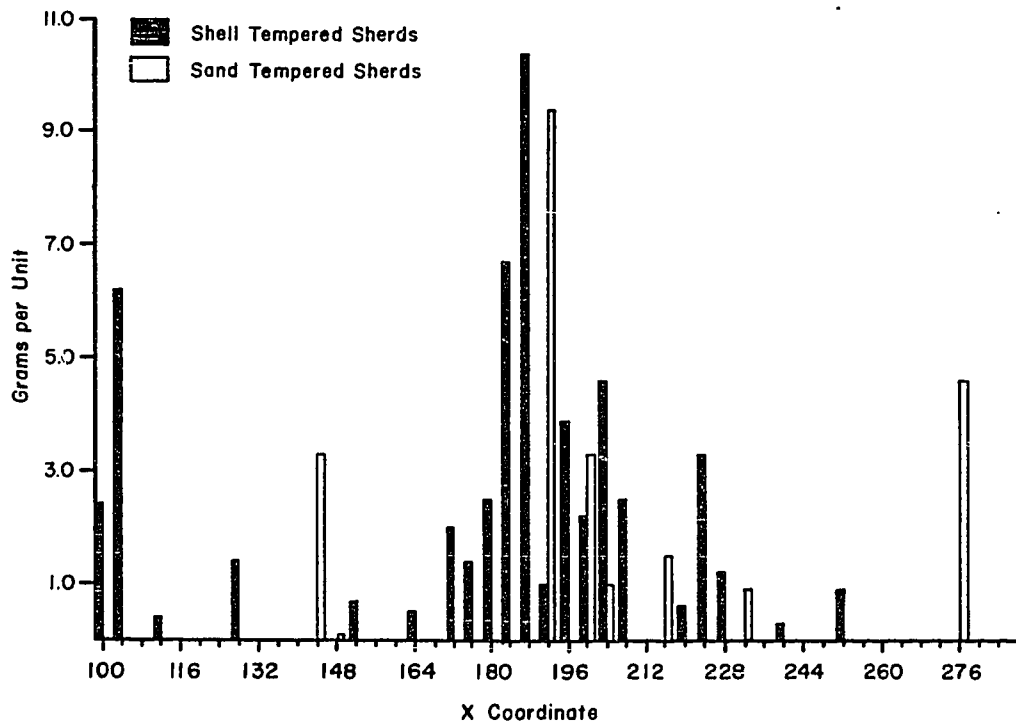


Figure 42: Distribution of sand and shell tempered sherds across Transect "C" (Figure 32) at South Cummins.

Assuming that the sand and shell tempered ceramics in the south cluster represent chronologically distinct occupations, it is still not clear whether the Mississippian occupation is contemporary with the one near the mound. Artifact analysis presented in Chapter Eight suggests that there are functional differences between these two shell tempered ceramic assemblages, which may have a chronological component. However, because the small sample sizes are so small, unequivocal inter-assemblage comparisons cannot be made. In the absence of any supporting data, it is most parsimonious to assume that the Mississippian occupations represented by the north and south artifact clusters are chronologically distinct.

Summary

Observations made at the Cummins site indicate small, low density artifact distributions in the vicinity of a large pyramidal mound. Further work is required to establish unequivocal associations between the artifact concentrations and the mound construction. Assuming that the artifact scatter surrounding the mound is in fact associated with it, the small collection area provides an important window into the settlement structure of the Mississippian occupation. Although the artifacts are scattered over a fairly large area, the artifact density is too low to describe the settlement as a large or compact village.

My observations are at variance with the term "village" used by Williams (1954), or with the compact planned villages described for the Powers Phase (Price 1978), or even the County Line settlement. They certainly run counter to the expectations generated by classic Mississippian settlement pattern models suggested for this area (Morse and Morse 1983). Rather, my observations conform more the "dispersed village" described by Muller (1978) for the Black Bottom area:

In any given part of the Black Bottom cane bottom area there are a number of Mississippian sites of both farmstead and hamlet size. In general, these appear to cluster into larger units or "dispersed villages". It is very difficult to judge the reality of these clusters of sites in cultural terms, simply because the topography of the ridge and swale area to

some extent forces clustering of occupation and isolates other settlements from one another across swales and wet areas. However, it is these whole areas of sites that have normally been recorded as single sites in archaeological survey in the past. (Muller 1978:285)

A great deal more research is required to evaluate the full range and character of Mississippian settlements on the Malden Plain. However, it is clear from the observations at the Cummins site, that a far greater range of variation is represented than accounted for by classic Mississippian settlement pattern models.

The Pelts Site (23DU29)

Site Environment

Pelts is located on the eastern edge of the Malden Plain, some six miles north of the Langdon site (Figure 9). Although distinct in this location, the escarpment rises only some 1.5 meters above the Little River Lowland. Pelts is located in Section 36, T18N, R9E. This is the same Township as the Cummins site which, as noted above, was surveyed in 1847 by the General Land Office. It is situated in the western portion of the township where many more European settlements had been established by the time of the survey (Figure 30). Indeed, the U.S.G.S. (1956) 15 minute Kennett quadrangle shows that this portion of the township lies at a slightly higher elevation than the eastern portion. The Pelts site itself had not yet been cleared at the time of the GLO survey, and thus, the notes provide an indication of the late prehistoric environment for the area.

Even though Pelts is located at a relatively higher elevation than Cummins, this area was apparently not lacking for water. The main channel of the Little River at one time flowed adjacent to the Malden Plain just south of the Pelts locality, near the Langdon site. It is at about this latitude that the river begins this westward meander. Today, major drainage system of ditches runs parallel to the escarpment within 300 meters of the site. The GLO survey and notes stop abruptly at the escarpment where overflow from the Little River was too deep to

continue (Figure 43). At these locations, the marker trees noted by the surveyor include a suite of trees indicative of swamp environments including sweet gum (*Liquidambar styruciflua*), cypress (*Taxodium distichum*), cottonwood (*Populus sp.*), black oak (*Quercus velutina*), birch (*Betula sp.*), and maple (*Acer sp.*). Only slightly drier conditions are indicated by the quarter section markers where mulberry (*Morus rubrus*) and sassafrass (*Sassafrass sp.*) are indicated. In fact, at the southwest corner of the section, the surveyor notes that "land good soil too wet for cultivation".

Based on the GLO descriptions, the Pelts site is located in an area that was probably free from seasonal innundation. Owing to its location along the escarpment the extent of this area may not have been as limited as that for the Cummins site. Nevertheless, indicators of drier locations are not found for some distance from the Pelts site.

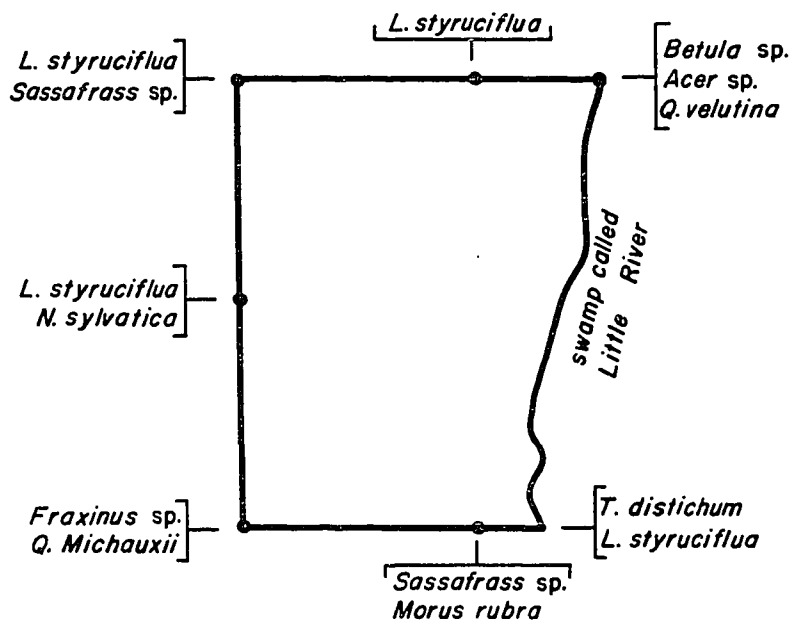


Figure 43: Marker trees identified in the General Land Office Survey for Section 36, Township 18N, Range 9E.

Aerial photographs of the Pelts location show dark soil signatures but do not reflect the planned or enclosed structure evident at the

Langdon or County Line sites. A European homesite was once located on the site, although these structures have been leveled. The only remnants of this former homesite were three large pecan trees (*Carya illinoensis*) in the field that have since been removed (Figure 44).

Prior Research

No published descriptions are available for the Pelts site, and little is known, although Phillips (1970, Figure 447) does include it on his map of Mississippian components. Surface collections and excavations were conducted by the Davidsons, of Kennett, Missouri. These materials, now at the University of Washington, include materials diagnostic of Archaic, Woodland, and Mississippian affiliations.

Fieldwork

The Pelts site is cultivated in a north-south orientation. In 1984 a swath of about ten meters wide was not cultivated, probably because of the difficulty imposed by the trees for the farm equipment. With this exception, the field was planted in cotton and visibility was excellent.

Beginning at the south end of the field, every tenth crop row (nine meter intervals) was traversed to define the site limits. This procedure was successful for determining the east, west, and north boundaries, but not the south. Artifact densities at the Pelts site are extremely high. There is a considerable fall-off in artifact density as one approaches the road at the south end of the site, but artifacts were nevertheless observed within five meters of it. Thus, the road at the south end of the site was used as a southern boundary. The road provides a convenient boundary between the Pelts and South Pelts sites (Figure 44).

Points were mapped for the north, west, and eastern boundaries after they had been determined, using the road at the south end for the southern boundary. A grid for the site was staked at 48 meter intervals. Artifact collection was initiated in the area that had been identified as containing the highest concentrations of Mississippian

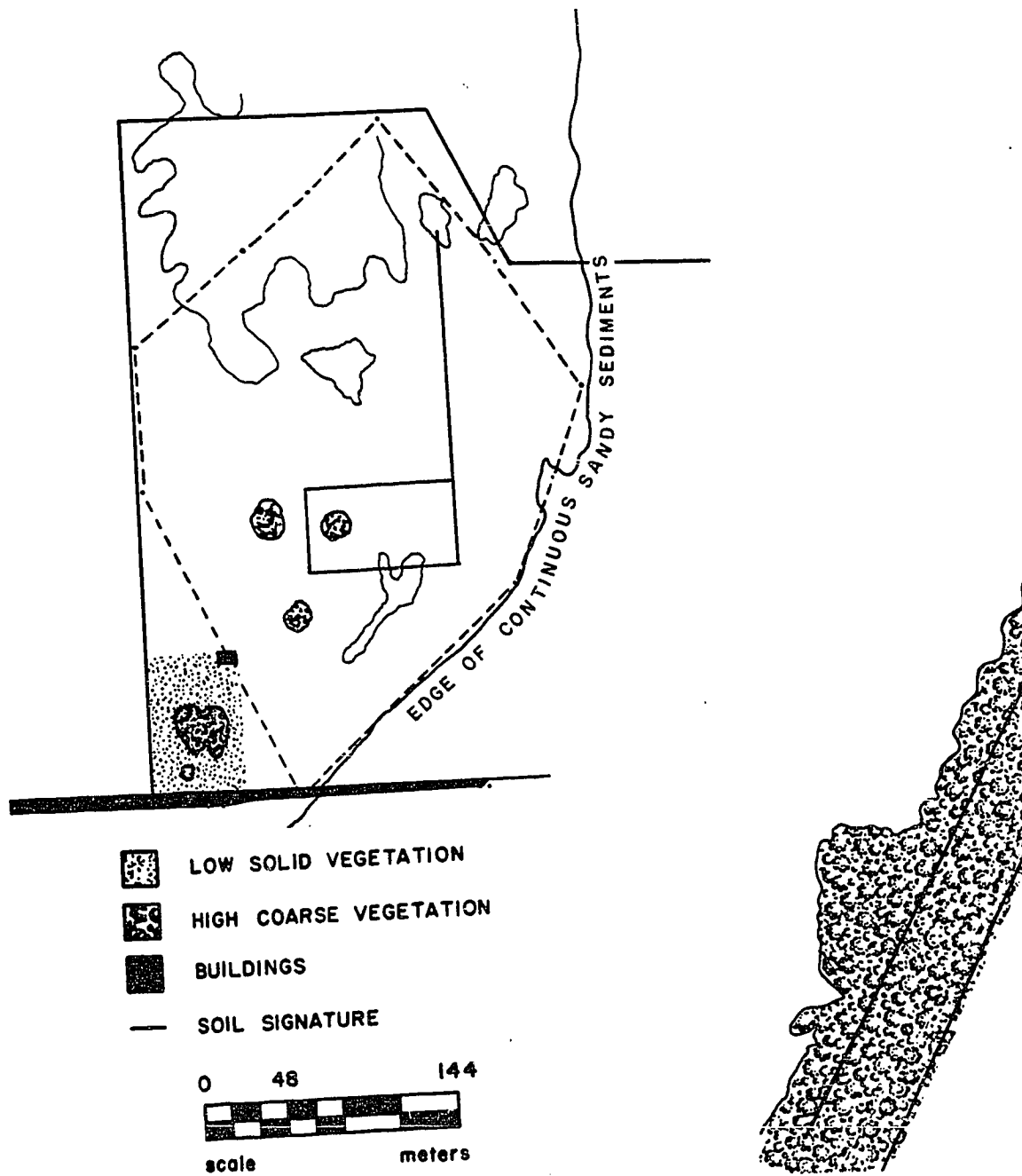


Figure 44: Location of fieldwork at the Pelts site, 1984.

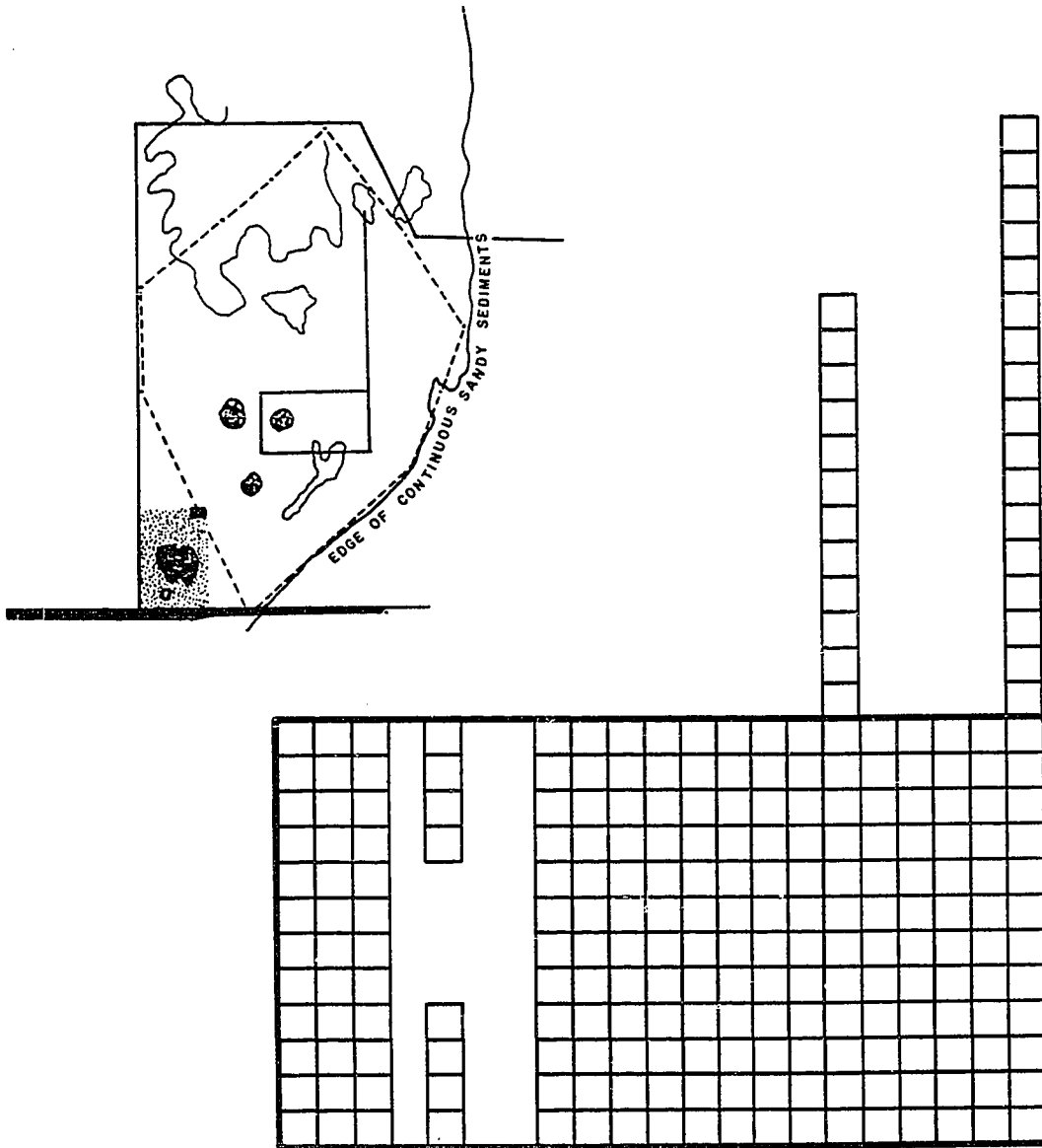


Figure 45: Grid system for fieldwork and systematic controlled surface collection at the Pelts site.

materials (avoiding the pecan tree), using four by four meter collection units. Artifact density was so high that after six 48-meter transects were collected, the collection proceeded in a checkerboard fashion. Two longer transects extending to the north of the collection block were also included (Figures 44 and 45). A total of 196 units were collected.

Data Considerations

Observations and materials from the Pelts site are limited by a lack of temporal control over the materials collected. It was anticipated that artifact distributions would allow segregation of temporally disjunct occupations. Spatial distributions for relative densities of several artifact classes were generated using SYMAP (Dougenick and Sheehan 1975). These provided limited results.

The distributions of sand tempered ceramics (Figure 46) and shell tempered ceramics (Figure 47) show remarkably similar patterns. This same pattern is also shared by the distribution of fired clay lumps (Figure 48) and bone (Figure 49). The distribution of grog tempered ceramics (Figure 50) and poverty point object fragments (Figure 51) overlap with the highest concentrations of those artifact classes already mentioned but show more confined distributions. While delineation of an Archaic component may be possible, this was not necessarily relevant to the segregation of Mississippian components.

Since categories of artifacts based on broad temporal indicators did not segregate in their distributions, additional maps were generated. Within the Mississippi Period, functional changes in ceramic technology have chronological implications. One of these changes is the increased use of "Bell Paste", characterized by shell temper that is both fine in grain size and sparse in quantity (Million 1975; D. Morse 1977). Another change in ceramic technology suggested for the Mississippian involves greater control over the firing process which yields the fully reduced ceramics characteristic of the more elaborate "classic" Mississippian wares (Dunnell and Feathers 1986).

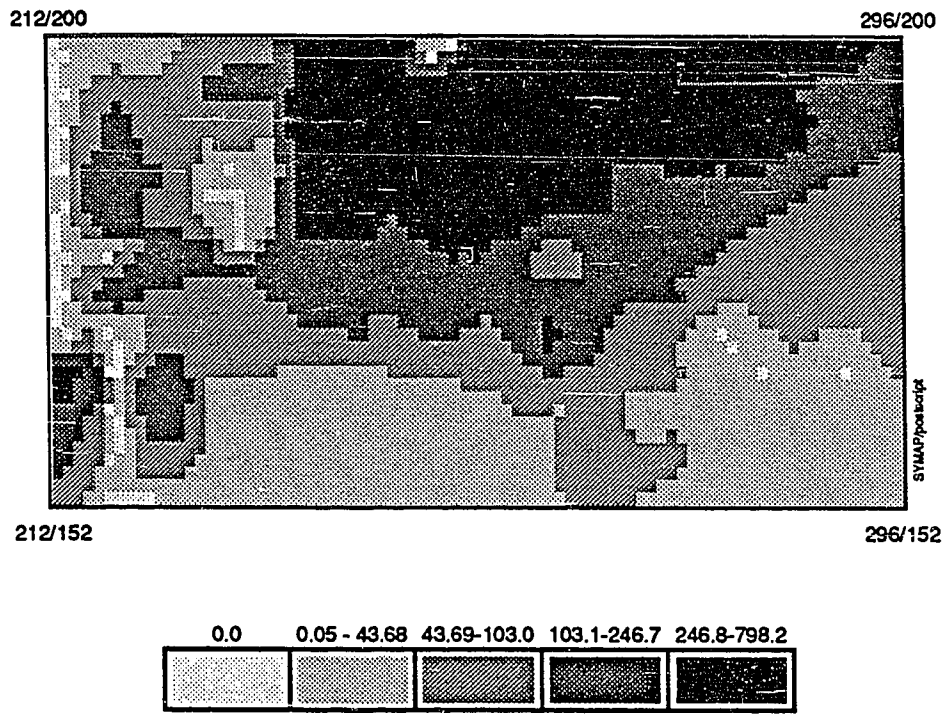


Figure 46: Spatial distribution of sand tempered ceramics at Pelts.

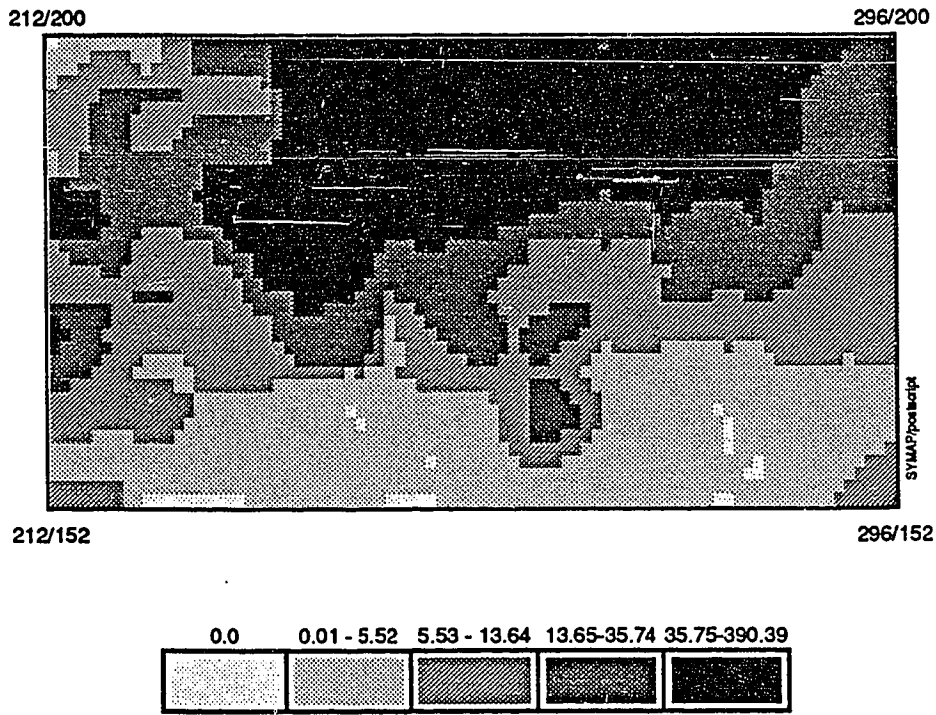


Figure 47: Spatial distribution of shell tempered ceramics at Pelts.

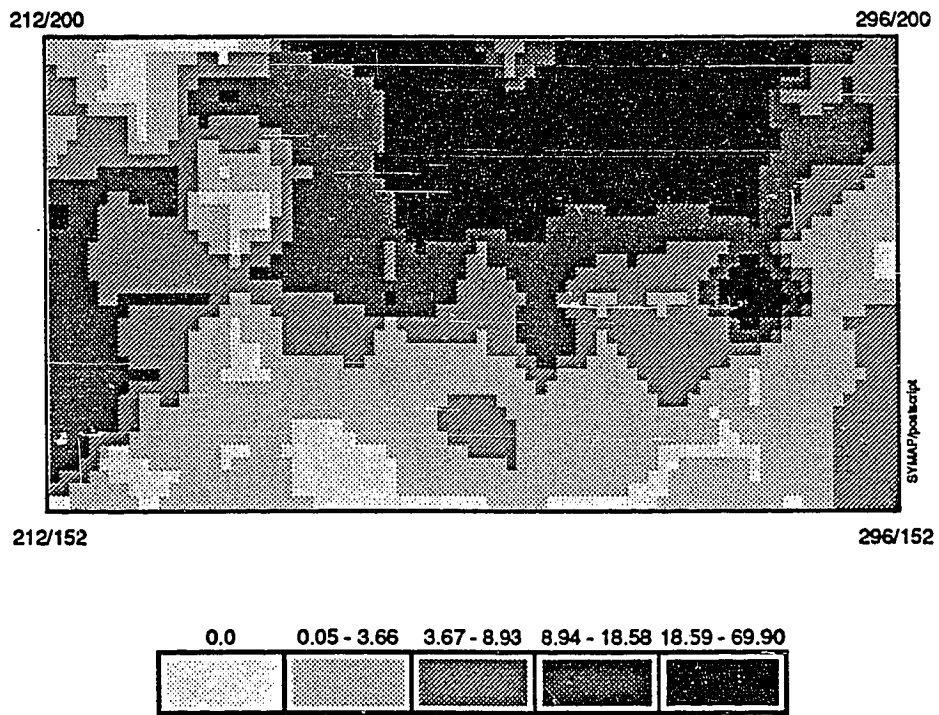


Figure 48: Spatial distribution of fired clay lumps at Pelts.

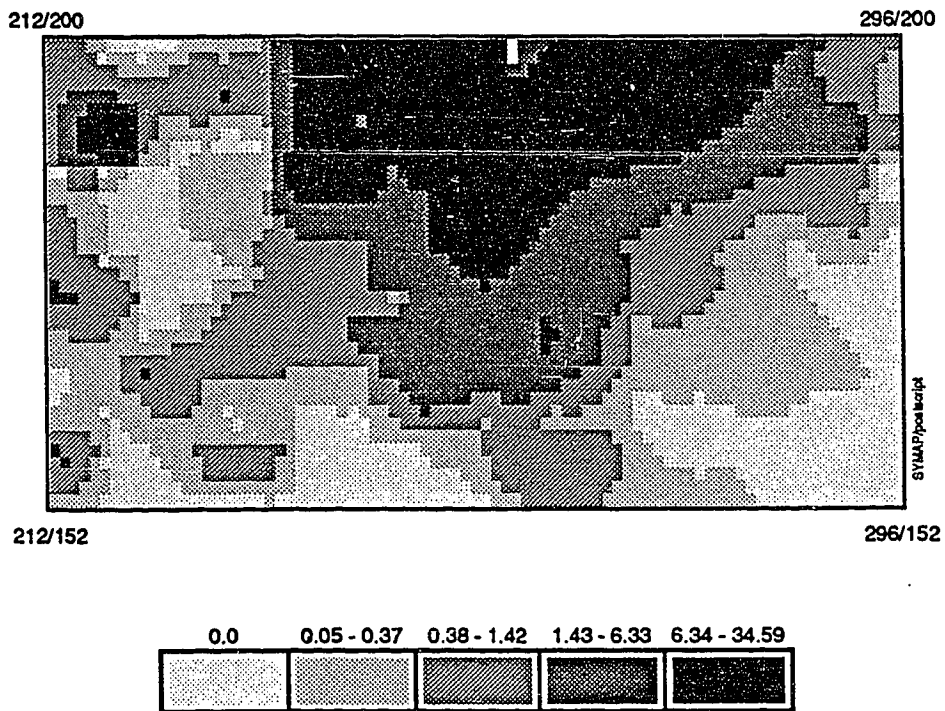


Figure 49: Spatial distribution of bone at Pelts.

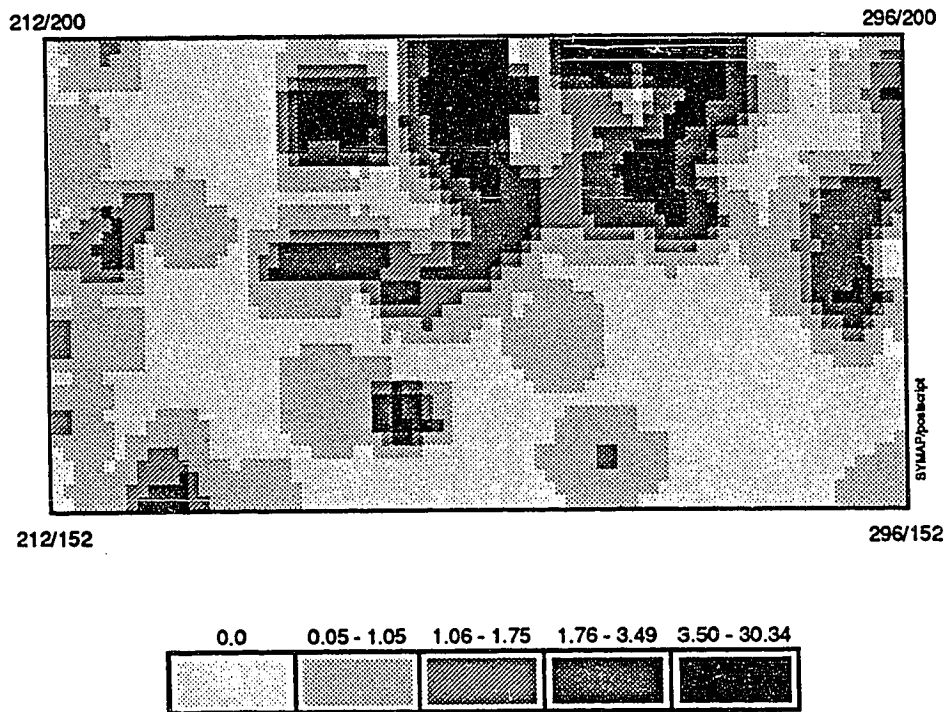


Figure 50: Spatial distribution of grog tempered ceramics at Pelts.

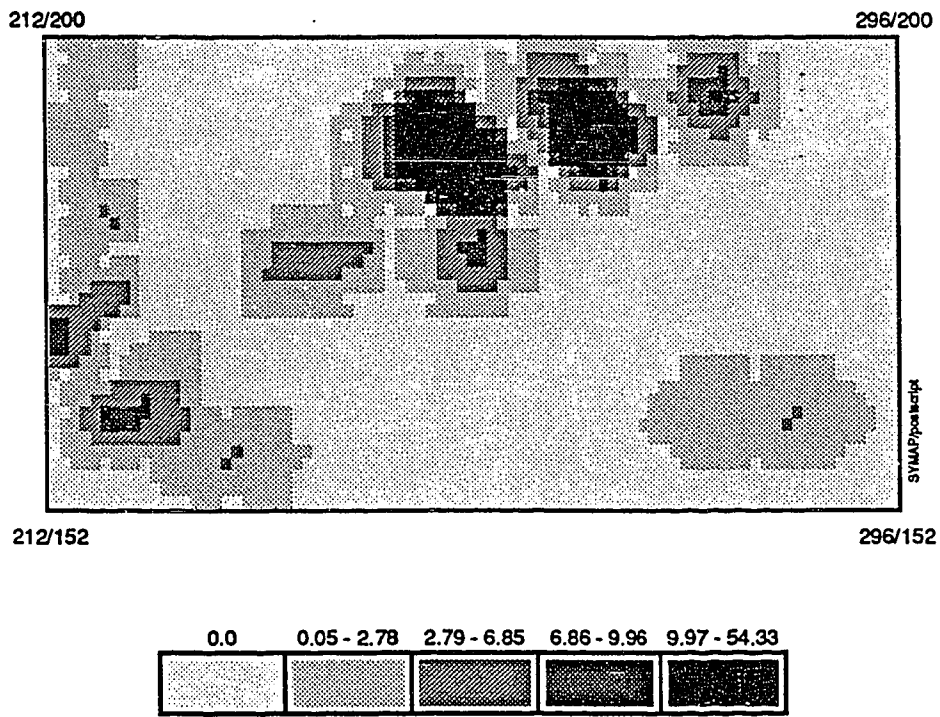


Figure 51: Spatial distribution of poverty point object fragments at Pelts.

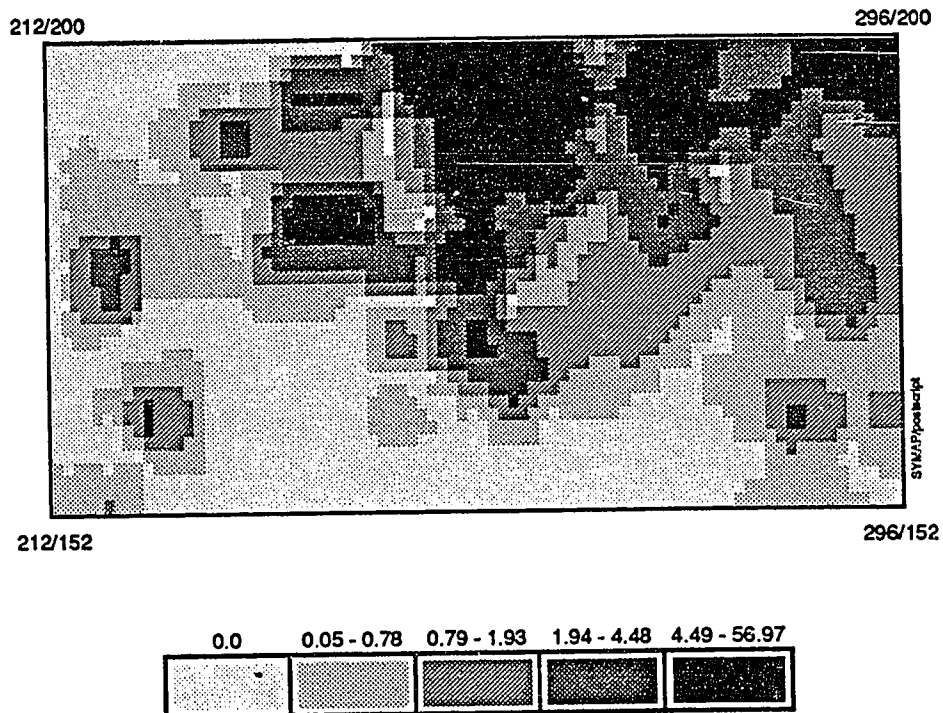


Figure 52: Spatial distribution of fine shell tempered ceramics at Pelts.

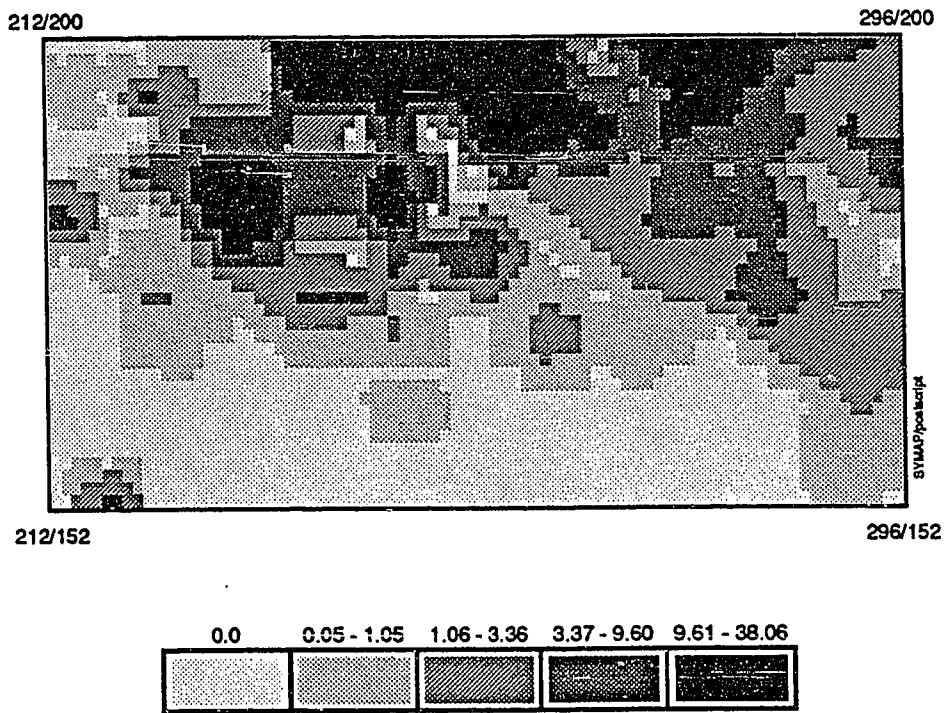


Figure 53: Spatial distribution of fully reduced shell tempered ceramics at Pelts.

In a functional analysis of the ceramics, discussed more thoroughly in Chapter 8, these variables were considered for the Pelts assemblage. Two of these variables, all ceramics with finely crushed shell temper, and all fully reduced shell tempered ceramics, were mapped (Figures 52 and 53). These variables did fragment the larger distribution of shell tempered ceramics. Although these distributions provide only limited information at this point, they do indicate that when more is known about specific artifact sequences and what kind of artifacts occur and specific times, it will be feasible to segregate the components at Pelts.

Summary

Many questions about the settlement context of specific materials at Pelts remain unanswered. Nevertheless, there are some general characteristics of the Pelts site that are extremely relevant, particularly in light of the observations at Cummins and County Line.

The Pelts site is large and artifact density is extremely high. No doubt the artifact density is a function of the intensity of occupation. The artifact assemblage includes materials diagnostic of middle Archaic up through Historic times, with no major period unrepresented. This includes projectile points diagnostic of the late Archaic; early and late Woodland; and early, middle and late Mississippian. Ceramic materials include poverty point objects, grog, sand, and shell tempered ceramics. Additional artifacts include five "microdrills" (usually identified as early or middle Mississippian) and two "Nodena" type projectile points (usually identified as late Mississippian), artifact types which were not recovered from Cummins or County Line.

The intensity of occupation itself is quite different than that evident at Cummins, County Line. While many researchers have commented on the archaeological complexity of Mississippian sites (e.g., Morse and Morse 1983; Lewis 1986), these comments are usually made in reference to the large mound centers. While Pelts is relatively large, it is not a large mound center. Even the Langdon site, which is

a large mound center, does not exhibit the same degree of occupational intensity through time as Pelts (Dunnell, personal communication).

That Pelts is such a large, archaeologically complex site is also at variance with the expectations generated from Mississippian settlement pattern models. Indeed, no Mississippian settlement pattern description considers a settlement at all similar to that at Pelts. While the Snodgrass site in the Powers Phase (Price and Griffin 1979) is a relatively large settlement without a mound, it lacks the intensity of occupation evident at Pelts. Furthermore, if we are to consider the Pelts site within the context of a settlement pattern similar to the Powers Phase, where would that place the Cummins Mound site? The question is a rhetorical one, and merely emphasizes the variability that has yet to be explored among Mississippian settlements at the scale of site and region.

Chapter 7

MISSISSIPPIAN CHRONOLOGY ON THE MALDEN PLAIN

The chronological questions outlined in Chapter Four are primarily two-fold. The first question centers on whether or not artifact sequences known for areas outside the Malden Plain can be extended to this area. We cannot assume that these sequences are appropriate given that stylistic divergences are known for both the Woodland and early Mississippi periods. This question impinges on the Vacant Quarter Hypothesis. As originally formulated, it was based heavily on the presence of specific time markers to determine which areas were occupied during the late period. Since so little work has been done on the Malden Plain, it is possible that this area appears vacant due to differences in the ceramics sequence as well as inadequate sampling of the record to acquire the appropriate time markers. This question is one of a relative chronology and requires an evaluation of the stylistic classes from Malden Plain Mississippian contexts.

The second chronological issue centers on whether there is any positive evidence for large settlements on the Malden Plain during the 15th century or later. This is a question of absolute chronology, and is independent of the presence or absence of stylistic markers which are taken to be "late" elsewhere.

Methods

The lack of a well developed chronology for the Malden Plain is due as much to a lack of research as it is to significant methodological problems. Because the utility of historical ceramic types has been so well established, archaeologists have tended to rely on them as index fossils, or horizon styles. Typological cross dating on the basis of index fossils has a long and established methodological basis, embedded within the principles of geological stratigraphy. While the method is sound, its application in many archaeological studies has not led to advances in the precision of temporal control. As with any dating method, typological cross dating embodies a specific

set of assumptions that should be acknowledged, if not tested routinely. One of the more important assumptions is that each time marker provides a specific degree of temporal precision.

The use of horizon styles as index fossils assumes that a particular style appears at the same time in all areas of a region and has a more or less uniform distribution throughout. This necessarily obscures the role of geographic variation at a specified scale of analysis and at best yields a mean date for a particular marker. Several researchers have documented the spatial effects of stylistic change (Deetz and Dethlefsen 1965, 1967; Beck 1984). Over a broad region, stylistic similarity cannot be assumed to be an indication of temporal comparability. In fact, for the Northern Lower Valley, discrepancies have been noted regarding the temporal distribution of specific ceramic types from one area to the next (e.g., Lewis 1984). If one recognizes the rather large area covered by these types, it is reasonable to assume that the temporal distribution of types on the Malden Plain will be different than other regions, especially in light of the fact that this area was geographically isolated.

Phillips, Ford, and Griffin (1951) were highly sensitive to the role of geographic variation in regard to stylistic change when they built their chronology for the Lower Mississippi Valley. This concern led them to develop a chronology based on seriations for five separate geographic areas. Their geographic areas were based on preliminary assessment of the frequency distributions of certain pottery types across their entire study area (Phillips, Ford, and Griffin 1951: Figures 6-14). They demonstrated that certain styles had broad geographic distributions, but the frequencies of these styles were not temporally uniform across the entire study area.

The scale at which the first LMVS sequences were developed is far greater than that appropriate for developing a local chronology. As one lowers the scale at which chronological studies are conducted, spatial effects on stylistic change must be reconsidered. This is especially so if local chronologies are to be correlated. To address this issue, the archaeological record must be sampled in a comprehensive manner at

the regional scale. Adequate sample sizes of temporally sensitive artifact classes (e.g., bifaces and decorated ceramics) are necessary to meet the requirements of frequency seriation methods (Dunnell 1970). Such samples are often difficult to obtain, especially in light of the apparent nature of Middle Mississippi ceramic assemblages.

Although there is an explosion of stylistic diversity during the middle Mississippi period, decorated and stylistically diagnostic artifacts regularly occur in relatively low frequencies. For example, of the 2057 shell tempered sherds obtained from the County Line site, only 66 (approximately 3%), could be assigned to non-plain types (e.g., Mississippi Plain or Bell Plain). Furthermore, the incised sherds are small and preclude unequivocal assignment to specific types. Similar frequencies were obtained from both artifact clusters at the Cummins Mound site.

The overall frequencies of decorated sherds in the County Line and Cummins samples are uncommonly low. In other studies where sherd counts are reported the frequencies of decorated types are similar. Collapsing all the plain types (Mississippi Plain and Bell Plain) and all decorated types reported, the frequencies of sherds assigned to non-plain types are comparable with the frequencies reported for the Lawhorn site (Moselage 1962) and from Middle Mississippi sites in the Cairo Lowland (Lewis 1986) (see Table 14).

Given that decorated types are represented in such low numbers, it is clear why they have been used as nominal time markers. Large samples of sherds are necessary to insure adequate sample sizes of decorated types and insure that a sufficient number of classes is represented. The rare types, which are usually the most sensitive chronological indicators, will only be represented when sample sizes are large enough. Thus, as Thomas (1986) recently argues, typological cross dating is often a methodological reality. This is of particular concern when samples sizes, such as those from the two Cummins assemblages, are small. If Lower Mississippi Valley archaeologists are to continue using stylistic types as time markers, and their temporal

sensitivity suggests there is no reason not to, then it will be necessary to pursue the precision of this method.

Table 14: Frequencies of decorated types (non-plain types) from Middle Mississippi assemblages.

Site	Fabric		Cord-		Total
	Plain	Decorated	Impressed	marked	
County Line	2000 (97.0%)	62 (3.0%)	0 (.0%)	0 (.0%)	2062
North Cummins	110 (90.9%)	11 (9.1%)	0 (.0%)	0 (.0%)	121
South Cummins	41 (97.6%)	1 (2.4%)	0 (.0%)	0 (.0%)	2
Lawhorn*	(98.7%)	(1.3%)	0 (.0%)	0 (.0%)	5000
Adams	8994 (94.2%)	270 (2.8%)	280 (2.9%)	0 (.0%)	9544
Wickcliffe	713 (97.5%)	4 (.6%)	11 (1.5%)	3 (.4%)	731
Sassafras Ridge	2310 (96.6%)	56 (2.3%)	24 (1.0%)	1 (.0%)	2391

*Data from the Lawhorn site are estimates, and based on type percentages provided by Moselage, where he states that 70 handles comprise 1.4% of the sherd count (1962:25).

The development of an absolute time scale provides one means of acquiring greater precision. In order to correlate sequences from one local area to the next, it is important to *demonstrate* that a given time marker has the same temporal distribution from one local area to the next. Greater precision can also be pursued through a better understanding of the variation within local artifact assemblages. For example, several authors discuss "super types" such as Bell Plain or Mississippi Plain, (Phillips, Ford, and Griffin 1951; Phillips 1970) and consistently note that there is a great deal of local variation that has yet to be sorted out. This task has not yet been confronted in any serious analytic way, but it is likely that the geographic variation noted in the description of these broad types will help in resolving local chronological issues. Both of these approaches are pursued here.

Ceramic Analysis

The stylistic analysis accounted for the dimensions of temper, surface treatment, slip, and mode of decoration (Table 15). These are familiar dimensions, ordinarily used in sorting established types. Hence, comparability between the analysis undertaken here and definitions for established types is maintained. If more than just the mode of decoration could be determined, and the decoration conformed to a previously defined type, this was also indicated.

The specific modes (i.e., attribute states) for each dimension were decided upon after initial sorting gave some indication of the range of variation present. Modes were added as necessary during the actual analysis. Analysis was limited only to sherds with both surfaces present (Appendix A).

Paste composition is discussed more thoroughly in Chapter Eight. This dimension is recorded using three dimensions (shell, sand, and grog), each of which accounts for the presence or absence and particle size. Stylistic typologies for the Lower Mississippi Valley used two main shell tempered paste classes. The most abundant, Mississippi Paste, is characterized by coarsely crushed shell, and the other, Bell Paste, is characterized by finely crushed shell (Phillips, Ford, and Griffin 1951). In this discussion, coarsely crushed shell tempered classes are defined as Mississippi Paste, while finely crushed shell tempered classes are defined as Bell Paste. For the most part, this is a valid distinction as shell tempering was not observed in association with either coarse grained sand or coarsely crushed grog, both of which are distinctive time markers for Woodland Period ceramic industries.

Surface treatment is recorded separately for the exterior and interior surfaces of the sherd. The modes used include plain, smoothed, polished, and cordmarked. Smooth is distinguished from plain when the surface of the sherd was puddled. This surface treatment is created by additional smoothing or manipulation, bringing the smaller particle sizes to the surface. Polished surfaces are noted

where there is a luster to the sherd surface. Cordmarking is present only in the Pelts assemblage.

Slip is recorded separately for the interior and exterior surfaces according to color (Table 15). Decoration is recorded (separately for the interior and exterior surfaces) according to the mode of

Table 15: Protocol for stylistic analysis of non-eroded ceramic vessel sherds.

-
-
- I. TEMPER
 - 1. coarsely crushed shell
 - 2. finely crushed shell

 - II. SURFACE TREATMENT (EXTERIOR SURFACE)
 - 1. plain
 - 2. smoothed
 - 3. polished
 - 4. cordmarked
 - 5. fabric impressed

 - III. INTERIOR SURFACE TREATMENT (INTERIOR SURFACE)
 - (same modes as above)

 - IV. SLIP (EXTERIOR SURFACE)
 - 0. none
 - 1. red
 - 2. white
 - 3. black
 - 4. buff
 - 5. grey

 - V. SLIP (INTERIOR SURFACE)
 - (same modes as above)

 - VI. DECORATION (EXTERIOR SURFACE)
 - 1. none
 - 2. incised
 - 3. punctated
 - 4. incised and punctated
 - 5. other

 - VII. DECORATION (INTERIOR SURFACE)
 - (same modes as above)
-

decoration, and includes incisions and punctations. Grooves are also included, but refer only to loop handles from County Line.

In order to compare the materials from this study with those from dated contexts (i.e., Lawhorn and Zebree), it was anticipated that sherds with decoration would be assigned to LMVS pottery types where applicable (e.g., Phillips, Ford and Griffin 1951; Phillips 1970), thus providing an initial structure for developing a relative order for the three assemblages considered. The frequency of decoration is very low, and because the sherds are small, assignment to specific pottery types is equivocal in most cases.

No decorated sherds were recovered from the south cluster at Cummins and only one incised sherd was recovered from the north cluster. This sherd was too small to be assigned to a defined type. It is a single incised line executed with a blunt instrument and co-occurs with what is defined here as Bell paste (a fine shell category, in this case combined with fine sand and fine grog).

In the County Line assemblage, there are 11 sherds with punctations or incising and an additional four loop handle fragments with grooves (Table 16). This kind of loop handle has no precedence in the literature, and may be distinctive of this area (Figure 54 A,B). Most of the decorated sherds are too small to identify anything more than a single incised line or a row of punctations (at least 3 rows in one instance, see Figure 54 E,F). In all cases, incisions are executed with a blunt instrument to the exterior surface (Figure 54 C,D). Furthermore, most (9 of 11, including a rim) are on neck sherds. Punctations are round, not the elongated shape applied as a surface treatment to the vessel body associated with Parkin Punctated. These aspects of the decorations in the County Line assemblage generally correspond to Manly Punctated (Phillips, Ford, and Griffin 1951:146) or, Matthews Incised (as defined by Phillips 1970:127-128) with one notable difference. As defined, Manly Punctated (Matthews Incised)

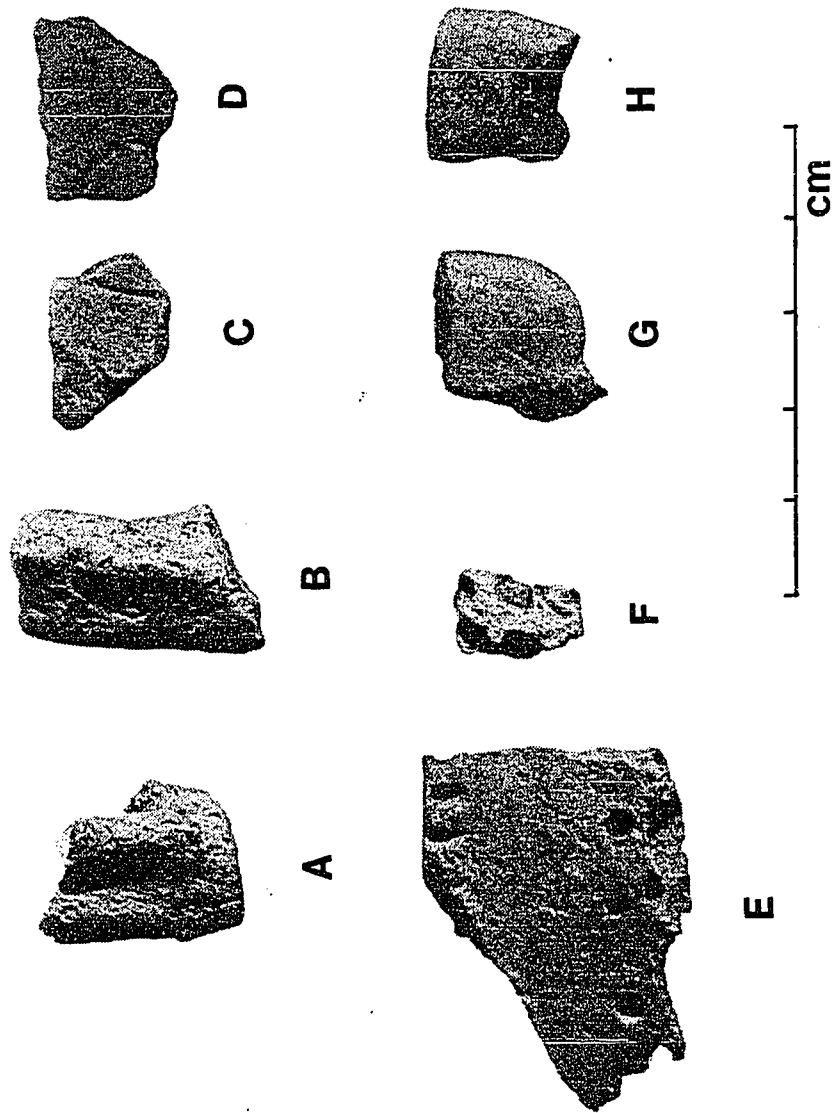


Figure 54: Decorated sherds from County Line: A-B) loop handles with grooves; C-D) incised; E-F) punctated; G) castellation; H) noded rim.

is associated with Mississippi Plain Paste. In the County Line assemblage incisions and punctations also occur on what is defined here as Bell Paste, that is, fine shell tempered categories.

Table 16: Decorated sherds from the County Line assemblage.

<u>Temper</u>	<u>Incisions</u>	<u>Punctations</u>	<u>Grooved Handles</u>
Fine shell and grog	3	1	1
Coarse shell	2	3	3
Coarse shell and fine sand	2		

Although punctations and incisions occur in low frequencies, there are a number of slipped sherds that correspond to defined types. In fact, slipped ceramics from both Cummins and County Line outnumber other decorated types and suggest a wider range of variation in this dimension than observed or described for nearby areas.

Red slipping is the most abundant slip represented and the only kind of decoration observed in the assemblage from South Cummins (one specimen). In all cases, the slip is a thin layer and thus assigned to the type Old Town Red (Phillips, Ford, and Griffin 1951: 129-130; Phillips 1970:145). According to the original type definition, Old Town Red is associated with either Mississippi or Bell Paste. Both occur in the County Line assemblage, but only Mississippi Paste is present in the assemblages from North and South Cummins (Table 17).

Black slips also occur in the assemblages from North Cummins and from County Line. Presumably, they are a result of firing in a reducing environment. Although there are no defined types which include black slipping, it does appear in both the County Line and Cummins assemblages (Table 18) and it is a regular feature of Malden Plain Mississippian assemblages (Dunnell, personal communication).

Table 17: Pastes associated with red slip from the County Line and North Cummins assemblages.

<u>Temper*</u>	<u>COUNTY LINE</u>			<u>CUMMINS (NORTH)</u>		
	O/R	R/O	R/R	O/R	R/O	R/R
SH,G,FS	1	0	0			
SH,G	2		1			
SH,FS	4	1	1			
SH	10	5	2	3		1
FSH,G,FS	1	2				
FSH,G	2	4	1			
FSH	1		1			

*Temper categories span the full variation recognized in the analysis. Temper abbreviations are as follows: fs = fine sand; sh = coarsely crushed shell; fsh = finely crushed shell; g = finely crushed grog. Coarsely crushed shell tempered categories (SH) are defined as Mississippi Plain paste, and finely crushed shell categories (FSH) are defined as Bell Plain paste.

Table 18: Pastes associated with black slip from the County Line and North Cummins assemblages.

<u>Temper</u>	<u>COUNTY LINE</u>			<u>CUMMINS</u>		
	O/B	B/O	B/B	O/B	B/O	B/B
SH,G	1	0	1			
SH,FS	1					
SH	3			3	1	
FSH					1	

*Temper categories span the full variation recognized in the analysis. Temper abbreviations are as follows: fs = fine sand; sh = coarsely crushed shell; fsh = finely crushed shell; g = finely crushed grog. Coarsely crushed shell tempered categories (SH) are defined as Mississippi Plain paste, and finely crushed shell categories (FSH) are defined as Bell Plain paste.

Buff slips are also present in the North Cummins and County Line assemblages. Two were recovered from Cummins and one from County Line. These slips occur only on exterior surfaces and are associated with Mississippi Plain pastes. There are no defined types which include buff slipping. It is possible that these sherds correspond roughly to Carson Red on Buff (Phillips, Ford, and Griffin 1951:132-133).

White slipped sherds are confined to the County Line assemblage, where there are five examples. One is a bowl rim (with lip decoration) and slipped only on the interior. These sherds correspond to the definition of Hollywood White Filmed (Phillips, Ford and Griffin 1951:134; Phillips 1970:90) even though it has been described as a tentative type.

Finally, a single bowl rim from County Line is red slipped (on both interior and exterior surface) with white paint added to the interior surface. The design motif cannot be determined other than it appears to be rectilinear rather than curvilinear. This sherd is identified as Nodena Red and White. Even though most descriptions of this type imply a red paint applied to a white slip, white on red is the common form on the Malden Plain. The example from County Line is associated with a Bell paste (fine shell with grog).

The ceramic types represented provide some guidance for assigning their respective assemblages to broad periods. A relative order, based on ceramic sequences outside the Malden Plain is possible. This order can only be considered accurate if it is confirmed by additional stylistic sequences (e.g., bifaces) and absolute dates.

The incised sherd from Cummins provides little information except that even in such a small sample ($n = 187$), decorated sherds are represented. The incised and punctated sherds from County Line are suggestive of Manly Punctated (Matthews Incised), a type that has a broad distribution in both time and space for the middle Mississippi period in the Central Valley. Since no period later than the middle period is recognized for this area, and the dates at which the region was abandoned are unknown, this type provides no further temporal precision. Indeed, the assignment of these sherds to Manly Punctated

can only be considered tentative. That several examples are associated with Bell Paste may be significant in that several authors have noted that the frequency of Bell Paste increases through time (Morse and Morse 1983; Lewis 1986a; Phillips 1970; P.Morse 1981). It is therefore possible that this is either a local form of Manly, a later form of Manly, or another type altogether.

The distribution of Old Town Red (distinct from Varney Red Filmed) is similar to that of Manly Punctated in that it has a broad distribution in time and space, and is ordinarily associated with the middle Mississippi period (Phillips, Ford and Griffin 1951:130; Phillips 1970:90; Morse and Morse 1983). Old Town Red is known to occur in association with either Mississippi Plain or Bell Plain Pastes. In the Cummins assemblage it is associated with Mississippi Paste and in the County Line assemblage it is associated with both Mississippi and Bell Pastes. If one uses the increase in Bell Paste as a chronological indicator (Phillips, Ford, and Griffin 1951; Morse and Morse 1983), then the north cluster at Cummins is earlier than the County Line assemblage.

Data from the Lawhorn (Moselage 1962) and Zebree sites (Morse and Morse 1980) include Mississippin ceramics from radiocarbon dated contexts and provide additional insight. Moselage (1962) indicates that there is very little or no Bell Paste in the Lawhorn assemblage and does not include it in his tabulations. While there is every reason to believe that his sorting criteria were different than those applied here, we can assume that the frequency of Bell Paste, or finely crushed shell tempered paste, was sufficiently low for him to doubt its presence. Morse (1980) does not mention Bell Plain paste in his discussion of the middle Mississippi period ceramics from Zebree and hence, it is assumed to be absent.

Old Town Red is associated with Mississippi Paste at Lawhorn. If the increase of Bell Paste is again used as a chronological indicator, then the County Line assemblage is later than the Lawhorn assemblage. However, no distinction can be made between the Lawhorn and the Cummins assemblages on these grounds. The presence of Bell Paste in the North

Cummins assemblage suggests that it may be later than Lawhorn. Because of its low frequency and the possibility of different sorting criteria, this assignment is difficult to support.

Morse (1980) notes that Old Town Red ceramics are rare from Zebree. If Bell Paste is indeed absent at Zebree, then it can be inferred that Old Town Red in that assemblage is associated with Mississippi Paste. Since Morse does not provide frequencies, it is impossible to establish directional change in relative frequencies for this type between the dated assemblages (Zebree and Lawhorn) for the Malden Plain. In the St. Francis area seriations, Phillips, Ford and Griffin (1951, Fig.21) document an increase of Old Town Red through Period B. This increase may apply loosely to the Malden Plain and is supported by comparison of the relative frequencies of this type from County Line and Lawhorn. This comparison once again places County Line later than Lawhorn, which is consistent with their relative placement on the basis of Bell Paste.

Carson Red on Buff is present in both the Lawhorn and Zebree assemblages. It is identified as a middle Mississippi period type (Phillips 1970; Phillips, Ford and Griffin 1951; D. Morse 1980; Morse and Morse 1983;) and, as defined, it is associated with Mississippi Paste. This temporal distribution for the Malden Plain is supported by the dates from Zebree and Lawhorn where it is judged a rare type (Morse 1980). If the buff slipped sherds from Cummins are equivalent to Carson Red on Buff, the possible presence of this type from the very small sample at North Cummins suggests that it may be a relatively important decorated type. This is important in light of the fact that at County Line buff slip is relatively unimportant and associated with other decorated types that have temporally later affiliations.

The presence of Hollywood White Filmed and Nodena Red and White in the County Line assemblage supports a relatively later chronological placement for this assemblage than Lawhorn and both assemblages from Cummins. Most authors agree that the spatial and temporal distribution of Nodena Red and White is limited to the Lower St. Francis drainage and confined to the late Mississippi period (PFG 1951:134; Phillips

1970:141-144; Morse and Morse 1983:280). The geographic distribution of Hollywood White Filmed is poorly known but its temporal distribution is believed similar to that of Nodena Red and White (Phillips, Ford, and Griffin 1951:134; Phillips 1970:90). This association is supported by the co-occurrence of Hollywood White Filmed and Nodena Red and White at County Line. If these types and the relatively high frequency of Bell Paste ceramics are used as horizon markers having the same temporal distributions on the Malden Plain as they do in the Lower St. Francis drainage, then a late Mississippi period occupation of the County Line site could be argued. Since the late Mississippi period is not recognized for the Malden Plain, two alternatives emerge:

1. These types have a longer time span than previously recognized. This is supported by the presence of Nodena Red and White at Zebree and Lawhorn and caution should be exercised in using them for period assignments before further information is documented regarding their distributions in particular areas.
2. Occupation of the Malden Plain persisted longer than previously thought.

Here, a better understanding of additional chronological indicators (e.g., bifaces) and the absolute time record will be informative.

It was anticipated that the frequencies of plain and decorated wares for North Cummins, South Cummins, and County Line could be used to generate a frequency seriation (Table 19). In this tabulation, the dimensions of paste, decoration, and slipping were used. Mississippi Paste is distinguished from Bell Paste in the manner described above. Decoration includes surface decoration and lip decoration. Since lip decoration also occurs on slipped sherds, slipping was given priority. In other words, when lip decoration occurs on a slipped sherd, it is tabulated as slipped. Using an increase of Bell Paste and the occurrence of known types to indicate chronological direction, a relative order is obtained where South Cummins is earliest, North Cummins is intermediate, and County Line is latest.

Table 19: Counts of plain and decorated sherds from County Line, North Cummins, and South Cummins.

ASSEMBLAGE	MP*	BP*	M-DEC*	B-DEC*	M-SLIP*	B-SLIP*	TOTAL
County Line	1532	428	14	15	36	15	2040
Cummins (N)	136	37	--	1	11	1	186
Cummins (S)	39	2	--	--	1	--	42

*Abbreviations for classes: MP: Mississippi Plain; BP: Bell Plain; M-DEC: Mississippi Paste decorated; B-DEC: Bell Paste decorated; M-SLIP: Mississippi Paste slipped; B-SLIP: Bell Paste slipped.

Table 20: Percentages of plain and decorated sherds from County Line, North Cummins, and South Cummins.

ASSEMBLAGE	MP*	BP*	M-DEC*	B-DEC*	M-SLIP*	B-SLIP*	TOTAL
County Line	75.1	21.0	.7	.7	1.8	.7	100%
Cummins (N)	73.1	19.9	--	.5	5.9	.5	100%
Cummins (S)	92.9	4.8	--	--	2.4	--	100%
Lawhorn	98.7		.5	--	.8		100%

*Abbreviations for classes: MP: Mississippi Plain; BP: Bell Plain; M-DEC: Mississippi Paste decorated; B-DEC: Bell Paste decorated; M-SLIP: Mississippi Paste slipped; B-SLIP: Bell Paste slipped.

It should be noted, however, that the disparity in sample sizes and the small sample sizes from both North and South Cummins does not support any quantitative interassemblage comparison. Recent research has pointed out that the number of classes in a sample may be a function of sample size. As a result, comparing samples with different sample sizes can produce misleading results. The relationship between taxonomic abundance and sample size has been explored by paleontologists and zooarchaeologists (cf. Grayson 1978, 1984). Only recently, however, has this issue been addressed as a significant

methodological issue for archaeological assemblages (Jones, Grayson, and Beck 1983; Beck 1983).

When the classification is imposed on the assemblages from Cummins and County Line, the effect of sample size on the number of classes represented becomes evident (Table 19). This problem is particularly severe here since the most sensitive chronological indicators lie within the rare classes not the more abundant ones. Thus, the order achieved tracks sample size as accurately as it may track time. Even if an occurrence rather than frequency seriation (Dunnell 1970) is used this does not alter the effect of sample size on the number of classes represented. Consequently, we do not know what the relative order in Table 20 implies by these data alone.

Bifaces

Ceramic decoration has provided the foundations for Lower Mississippi Valley chronology, but there are important temporal dimensions to the lithic assemblages in this region as well. Bifaces or projectile points occur in low frequencies and because of their strong functional constraints, stylistic variation is limited. This is reflected in the fact that projectile point styles have far broader spatial and temporal distributions than ceramics. Because ceramics have proven to be far more sensitive chronological indicators, analysis of lithic assemblages has been neglected. Recently, Williams and Brain (1983) and Justice (1987) have made significant contributions by providing a compilation of type descriptions along with information regarding the known temporal distributions of bifaces in eastern North America.

Bifaces and projectile points were recovered from the County Line, North Cummins and South Cummins. Again, there are major discrepancies in sample sizes among these assemblages. A single point was recovered from the South Cummins, three from North Cummins, and 41 from County Line. Of the 41 bifaces and fragments thereof in the County Line assemblage, 12 are complete enough for analysis. The points are described according to five variables (Table 21) and the results appear

in Table 22. An additional attempt to assign each point to established types was made. While the points here vary from published descriptions, in many cases, published descriptions of point types vary with one another (e.g., Justice 1987; Morse and Morse 1983; Williams and Brain 1983).

Although there is variation in size and shape of bases, the four points from the Cummins Mound are all triangular in form and can be assigned to the Madison type (Figure 55). Only the specimen from South Cummins (Figure 55A) has pressure flaking and appears to be finished. Two points observed in the assemblage at the University of Washington from North Cummins are both Scallorn points.

Table 21: Protocol for analysis of bifaces.

-
-
- I. *AXIAL LENGTH* (.01 millimeters). This measurement applies only to complete points. It is defined as the distance from the tip to the mid base.
 - II. *WIDTH* (.01 millimeters). This measurement is defined as maximum width perpendicular to the axial length.
 - III. *MAXIMUM THICKNESS* (millimeters).
 - IV. *SHAPE OF BLADE*
 - 1. straight
 - 2. convex
 - 3. concave
 - 4. irregular
 - V. *SHAPE OF BASE*
 - 1. stemmed
 - 2. corner notched
 - 3. side notched
 - 4. straight
 - 5. concave
 - 6. convex
 - 7. irregular
-

Table 22: Description of bifaces from Cummins and County Line.

Figure	axial length	width	maximum thick	shape of blade	shape of base	"type"
55 A	--	11.90	3.15	straight	convex	Madison
55 B	--	19.61	5.35	straight	straight	Madison
55 C	--	18.94	5.34	straight	concave	Madison
55 D	--	17.16	6.90	straight	straight	Madison
56 A ¹	--	--	--	--	stemmed	Woodland
56 B	--	12.30	3.65	straight	stem	Sequoyha
56 C	20.03	15.13	.86	straight ²	stem?	Sequoyha?
56 D	23.45	--	3.90	convex	corner notch	Scallorn
56 E	21.90	10.27	2.43	convex	side notch	?
56 F	9.80	--	2.55	straight	straight	Madison
56 G	21.85	16.65	2.72	straight ²	straight	Madison?
56 H	20.35	10.75	8.05	convex	straight	Madison?
56 I	23.93	11.93	2.80	straight	straight	Madison
56 J	--	15.62	4.95	straight	straight	Madison
56 K	--	15.59	5.80	convex	straight	Madison
56 L	35.83	16.95	5.94	irreg	irreg	?

¹Base portion is identified as a Woodland point.

²Serrated blade.

The assemblage from County Line is more variable. One base fragment has an expanding stem characteristic of the Woodland Period (Figure 56A). Another point is triangular in form, somewhat thick, and lacks pressure flaking, indicating that it may not have been completed (Figure 56L). The remaining examples attributed to the Mississippian occupation show a wide range of form.

One of the points (Figure 56B) has a triangular blade and is stemmed, similar to the Sequoyah type illustrated by Morse and Morse (1983:223, Figure 10.8h). Another triangular point with serrated edges (Figure 56C) may have been stemmed, but the basal portion could easily be the remnant of a striking platform. If stemmed, this point corresponds generally to the Sequoyah type illustrated by Justice (1987:221, Figure 48), except that the blade is broader and Justice's description specifies a slender blade. Without the stem, this point is

similar to another triangular point in the assemblage (Figure 56G). The relatively broad triangular form with serrated edges does not correspond to any published type descriptions. A third point is corner notched (Figure 56D), and corresponds to the Scallorn type illustrated by Justice (1987:221, Figure 48c) being corner notched with a slightly convex blade. A side notched point with a convex blade (Figure 56E) is a common Mississippian form on the Malden Plain but does not conform to any published type description. It is formed by pressure retouch along the edges of the flake, having no pressure flaking across either face. The only side notched point so far defined is the Shughtown Point (Morse 1969; Morse and Morse 1983:240, Figure 11.2j) but it is very different from the specimen here. Another point manufactured in the same manner, has a straight base and is also common to the Malden Plain (Figure 56H). This point is loosely assigned to the Madison type. In outline it is most similar to the Nodena Banks variety illustrated by Justice (1987:230-1, Figure 50) but does not share the same flaking characteristics. The remaining four points (Figure 56 F,I,J,K) are triangular forms and assigned to the Madison type.

The Scallorn type, represented by one or possibly two examples in the County Line assemblage, is considered an early Mississippi period type (Justice 1987; Morse and Morse 1983; Williams and Brain 1983). This type is believed to have a more southerly distribution, and possibly an adaptation to cane hafting (Morse and Morse 1983). As a time marker, the Scallorn-like point is inconsistent with the remainder of the point assemblage, as well as the temporal indicators in the ceramic assemblage. As described by Justice (1987) the Sequoyah point has a later distribution than the Scallorn point, corresponding to dates roughly between AD 1000 and 1350. The Madison Point has a long history and wide distribution throughout the eastern United States during the late Prehistoric Period. In the Central Mississippi Valley, it is believed to have appeared and peaked in popularity somewhat later. Morse and Morse (1983) indicate that this point type appears during the later part of the middle Mississippi period.



Figure 55: Projectile Points from a) South Cummins; b-d) North Cummins

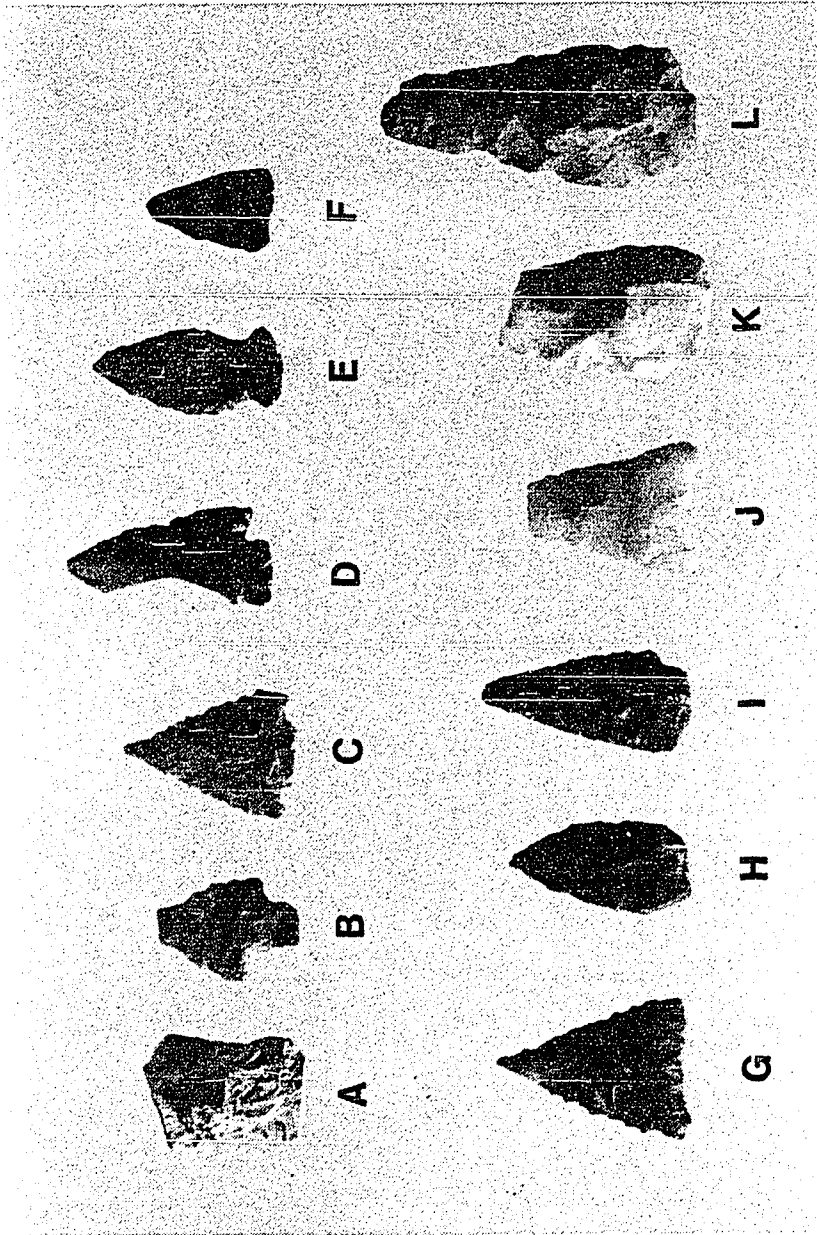


Figure 56: Projectile Points from County Line (See Table 22 for corresponding measurements).

The projectile points from Lawhorn and Zebree are not reported in such a way to permit comparisons with those recovered here. Moselage (1962) indicates that over one-third of the points from Lawhorn are assigned broadly to the Scallorn type, and only a few are Mississippian triangular forms. On this scanty basis, it is possible that the presence of only Mississippian triangular points and the absence of the earlier Scallorn points from Cummins suggests that there is a later occupation at Cummins. This assignment is based only on the assemblage from Cummins collected in 1984. As noted above, Scallorn points have been found at Cummins, and if these data are considered, the two occupations appear contemporaneous.

Absolute Age Estimates

A lack of consistent research interest in the Malden Plain for the past 30 years is reflected in a poorly developed absolute time scale. No less important to the development of an absolute chronology however, are the pragmatic problems created by the structure of the Malden Plain archaeological record itself. In the past 35 years, radiocarbon dating has become the most favored and inexpensive means of estimating absolute age. Well documented charcoal samples are a prerequisite for building a reasonable bridging argument linking the dated event and the target event (Dean 1978). Late Pleistocene age surfaces however, mean that most of the archaeological record lies within the modern plowzone. This attribute of the record has afforded certain advantages (see Chapters Three and Four), but diminishes the chances of finding stratified deposits or obtaining adequate charcoal samples for radiocarbon dating. Since this research did not include any excavation or sub-surface testing, radiocarbon dating could not be used. Fortunately it was possible to obtain absolute age estimates on a series of pottery sherds from the County Line and Cummins assemblages using thermoluminescence (TL).

Sherds from County Line and North Cummins were chosen for TL dating. County Line stood the best chance of being the latest

assemblage on stylistic grounds. Furthermore, the analysis presented in Chapter Six indicates that it is a nucleated and possibly planned settlement, developments which appear to occur during the late Mississippi period in the Lower St. Francis area.

The artifact assemblage from North Cummins is small. It appears to be older than County Line on stylistic grounds even though there are discrepancies in sample size rendering this assessment equivocal. It is also difficult to assess the relative temporal order of Cummins and Lawhorn based on relative frequencies of ceramic and biface types from their respective assemblages. Resolving this order would provide an independent means of ordering these sites so that changes in relative frequencies could be assessed for future seriation analysis.

Sherds from the Pelts site are not suitable for analysis. Although Nodena type bifaces were recovered from there, the failure to segregate associated ceramics and to document the settlement context of specific artifacts precludes meaningful dates from this site.

The choice of sherds from the County Line assemblage was based on the functional analysis of paste composition discussed in the following chapter. The analysis indicates that paste composition is not random with respect to other functional dimensions, but whether this variation is specific to the County Line assemblage, or part of a larger historic process with chronological significance (cf. Million 1975), is unclear. If paste preparation does have a strong chronological component, and there is reason to suspect that it does, then choosing as wide a variety of pastes for dating purposes should yield as wide a chronological range as possible for this assemblage (Table 23).

Two additional factors influence the sherd selection. Radiometric analysis of sediment samples is necessary for TL analysis and thus, choice of sherds was confined to those units where sediment samples were taken. Since the sediment analysis is a lengthy process, sherds were selected to minimize the number of sediment samples to be processed. Second, it was necessary to select sherds large enough (≥ 3.5 grams).

Table 23: Sherds selected from the County Line assemblage for Thermoluminescence dating.

<u>Lab No.</u>	<u>Catalog No.</u>	<u>Provenience</u>	<u>Paste</u>
UWTL-4	CL-179-1	568/524	coarse shell, fine grog
UWTL-5	CL-179-7	568/524	coarse shell
UWTL-6	CL-347	616/528	fine shell, fine grog
UWTL-7	CL-179-9	568/524	fine sand, fine shell, fine grog

Because there are so few sherds from North Cummins, choice of sherds was determined by sherd size and availability of sediment samples. Four shell tempered sherds and two coarse sand tempered sherds were submitted for analysis which is still pending.

Age estimates for three of the sherds from County Line (Table 24; Figure 57) are preliminary due to the experimental nature of this thermoluminescence project. Secure calculations for sample UWTL-5, a sherd tempered with coarse shell and fine grog, render a date of AD 1511 ± 73 . Samples UWTL-6 and UWTL-7 displayed a slight degree of anomalous fading and the calculations represent *maximum* estimates. These calculations result in maximum estimates of AD 1325 ± 92 and AD 1370 ± 83 . The fourth sample, UWTL-7 displayed pronounced anomalous fading and reliable calculations could not be made.

The dates from County Line indicate that the site was occupied longer than previously expected. Taking standard deviations into account, County Line could have been occupied as early as the mid-13th

Table 24: Thermoluminescence dates from the County Line sherds.

<u>Lab No.</u>	<u>Age (yrs. BP)</u>	<u>Date (AD)</u>	<u>Standard Deviation</u>
UWTL-4	477	1511	51
UWTL-5			
UWTL-6	633	1325	92
UWTL-7	618	1370	63

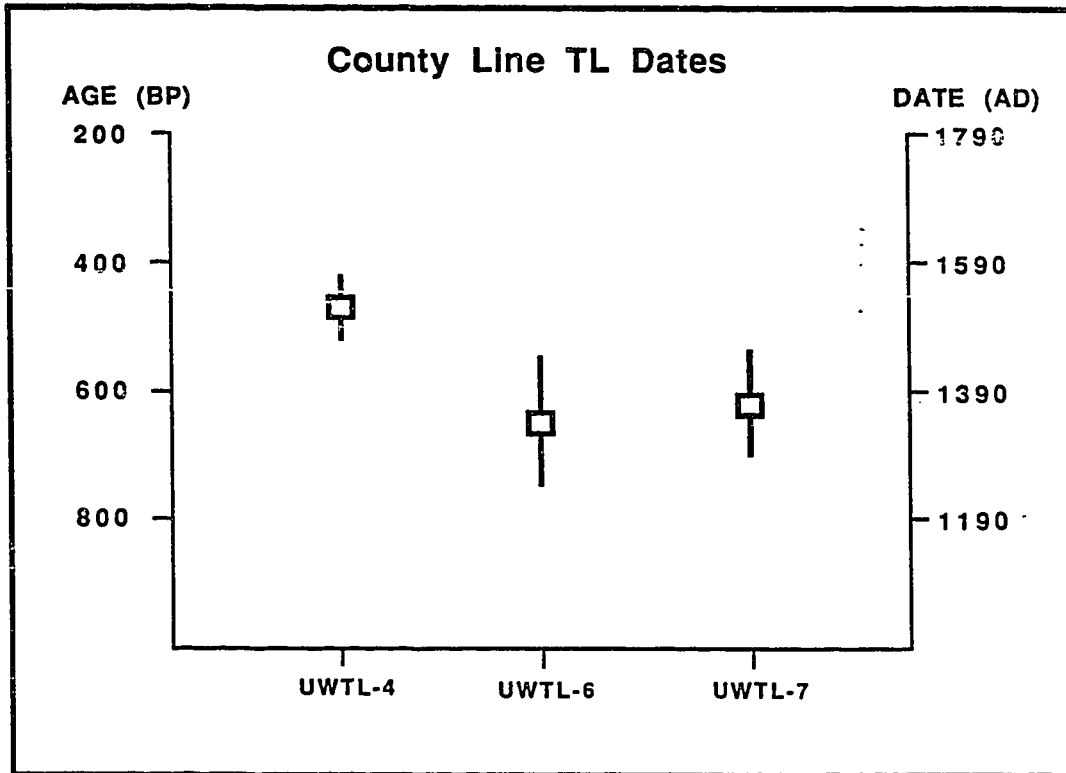


Figure 57: Thermoluminescence dates from County Line.

Century to at least the early 16th Century. Considering that the most secure date is the most recent one, and that the 14th century dates are maximum estimates, the time-range for the occupation of the County Line locality could be even longer than these estimates indicate.

These dates impinge on interpretations of the settlement context for the Mississippi occupation of the County Line site. Given that the

locality was occupied for such a long time, it is possible that not all Mississippian materials are contemporaneous with one another. For example, the structure of the settlement could have changed over time, with the enclosure being a more recent addition. This would account for the concentrations of Mississippian artifacts found outside the enclosure. To test this hypothesis a larger assay of dates would be required from specific spatial contexts to compare age estimates for materials inside and outside the enclosure. The present sample includes only materials from inside the enclosure.

The TL results bear directly on the Vacant Quarter Hypothesis. The analysis reveals an early 16th Century (or minimum of late 15th Century) occupation at County Line. These dates record the persistence of a permanent occupation on the Malden Plain beyond the most liberal boundaries identified for abandonment of the region.

Whether County Line represents the absolute latest settlement on the Malden Plain is not yet determined. By all accounts, it does not appear so. Recent investigations at the Langdon site (Dunnell, personal communication) indicate that the occupation at Langdon settlement persisted even later. This is indicated by the frequency of Nodena Red and White and fine shell tempered pastes. Walls Engraved and Campbell Applique, two late time markers otherwise undocumented for the Malden Plain, are also documented. The biface assemblage includes both Madison and Nodena type points. At least one mound at Langdon includes middle period ceramics in the lower portion of its fill.

Summary

In this chapter, comparable stylistic aspects of the materials from Cummins, County Line, Lawhorn, and Zebree are evaluated. Discrepancies in sample size between the Cummins and County Line assemblages preclude unequivocal inter-assemblage comparisons. Based on directional changes identified in the southern St. Francis area by Phillips, Ford, Griffin (1951) and Morse and Morse (1983), County Line is younger than the Lawhorn and Cummins assemblages. The temporal

relationship between the Lawhorn and Cummins assemblages cannot be determined based on the data at hand. Certain differences (e.g., presence of Bell Paste and biface types) suggests that the North Cummins assemblage is younger than Lawhorn and South Cummins.

Given the chronological relationship between County Line and Cummins, differences in settlement context could be functions of both time and space. As indicated above, the immediate site environment of County Line does not suggest any limitations on size imposed by threats of seasonal or permanent inundation. These factors may have been operative in structuring the size of the occupation at Cummins. Chronologically, however, the two are distinct enough that temporal change must also be considered.

The preliminary TL dates from County Line indicate a 15th century occupation. These dates are consistent with the ceramic types represented in the assemblage, particularly Hollywood White Filmed, Nodena Red and White, and higher frequencies of Old Town Red and Bell Plain. These dates also show that permanent occupation of the Malden Plain persisted well into the late Mississippi Period. This places doubt on the validity of extending the Vacant Quarter Hypothesis to this region.

One question remains: is the Malden Plain ceramic sequence comparable to sequences developed for adjacent areas? In a general sense, this question can be answered affirmatively. Temporal indicators for the late Mississippian do occur on the Malden Plain in the context of permanent settlements of appropriate age. Furthermore, these ceramic styles also render consistent relative orderings as those already established. The failure to identify these associations prior to this research may indeed be related to sampling error in that so few localities in this region have been intensively researched.

However, there are aspects unique to the Malden Plain ceramic sequence that do set it apart from others. First, there appears to be a wider range of slipped and painted ceramics on the Malden Plain in contrast to other modes of decoration found in adjacent regions. There are not pottery types that account for black or buff slips, both

of which are regular features in Malden Plain ceramic assemblages. The use of slips has historical precedence on the Malden Plain, extending to the late Woodland (cf. Dunnell and Feathers 1986).

Second, there appears to be a regionally specific form of Bell Plain common to the Northern Lower Valley where fine grog is associated with shell temper (Lewis 1986a; Million 1974, 1975). The use of finely crushed grog is not limited to Bell Plain, and this is discussed more thoroughly in the following chapter where I consider temper in a functional context. Use of grog temper in Mississippian ceramic industries may have a chronological component, particularly for the Malden Plain where coarse grog is not associated with Woodland ceramics. Nevertheless, attributes with a strong functional component should be used carefully as chronological indicators.

Chapter 8

FUNCTIONAL ANALYSIS

In Chapter Two, I argued that a materialist or time-like framework is more appropriate than an essentialist or space-like framework for the study and explanation of change in the archaeological record. A materialist framework generates a model in which change is viewed as the differential persistence of alternative traits through time. In this context, empirical variation has a causal role, in that it is what natural selection acts on. As Lewontin (1970) notes, evolution by natural selection embodies three fundamental principles:

1. Different individuals in a population have different morphologies, physiologies, and behaviors (phenotypic variation).
2. Different phenotypes have different rates of survival and reproduction in different environments (differential fitness).
3. There is a correlation between parents and offspring in the contribution of each to future generations (fitness is heritable).

As implied by the second point above, not all traits respond to selective processes under a given set of circumstances. It is argued that, in archaeological terms, functional forms can be explained by selective processes under a given set of circumstances (Dunnell 1978). Thus, explanation of evolutionary change in the archaeological record must begin by elucidating the range of empirical variation in functional forms.

Ultimately, determining the difference between stylistic and functional forms is a question that must be answered in the context of the spatial and temporal distribution of alternative forms, or at the least, interassemblage variation. These kinds of tests were precluded for two reasons. First, they require knowledge of an enormous amount of empirical data simply not available. Second, discrepancies in sample size among the assemblages considered here are such that direct quantitative comparisons cannot be made.

Equally important, however, is the exploration of intra-assemblage variability to assess non-random associations and understand the mechanisms of interaction. This provides a preliminary means of determining why a particular trait would be under selection. In other words, the distribution of alternative traits through time can only test whether a particular trait is or is not under selection. Unless functional studies are conducted at the scale of assemblage to understand the mechanisms of interaction, it is impossible to know why (or how) a trait is functional. It is here that the results of experimental studies are helpful in providing guidelines for the choice of variables to examine. Although these dimensions have not been tested in a temporal framework, ceramic and lithic replication studies have been extremely useful in identifying variables that are technologically and functionally significant. The "windows" provided by specific assemblages provide the means of determining non-random associations of those variables.

Ceramic Analysis

Several researchers have observed that ceramics from the Malden Plain are distinctive (Morse 1977; Williams 1954; Morse and Million 1980). These observations, particularly for temper, became quite clear upon my initial sorting of the materials collected here and provided guidelines for establishing the modes used in this ceramic analysis. While there has been an analytical emphasis on shell temper, it is occasionally noted that ceramic paste does vary (Million 1975; Morse 1977; Phillips 1970; Phillips, Ford, and Griffin 1951; Williams 1954). Not only do the quantity and size of shell fragments vary, but the combination of shell with additional aplastics has also been noted. Of particular interest here is the addition of grog and sand. The addition of finely crushed grog to more elaborate Mississippian wares has been noted by several reserachers (Phillips 1970; Williams 1954; Morse and Morse 1983) and identified as a late Mississippi period trait for the lower St. Francis drainage (Million 1975; Morse 1977).

Although some effort has been made to investigate this (e.g., Million 1975; Steponaitis 1983), analysis has focused on traits (i.e., the transition to shell temper, or the presence of finely crushed grog) with no corresponding attempt to understand the significance of ceramic temper variation at the scale of assemblage.

Recent studies in ceramic technology have shown that different tempering agents interact with specific clays in unique ways, having important consequences for the manufacture and use-life of the ceramic vessel (Bronitsky 1986; Bronitsky and Hamer 1986; Dunnell and Feathers 1986; Million 1975, 1980; Steponaitis 1983). Temper alone may have significant functional implications but its relation to other technological dimensions may be of equal importance.

Taking a close look at late Woodland and early Mississippi (Big Lake) ceramics from the Malden Plain, Dunnell and Feathers (1986) claim that the seemingly drastic differences between sand and shell temper are more apparent than real. Their analyses indicate that the similarities between Late Woodland and early Mississippi ceramics are quite striking. Upon examining temper variation, vessel form, and firing regime, they argue for greater continuity between these two ceramic industries than previously recognized. Their study addresses the late Woodland and early Mississippi transition but does provide guidelines for examining later technological developments.

Classic Middle Mississippi ceramic industries are acknowledged to be fired in predominantly low oxygen environments, as evidenced by a dark colored paste. They also encompass a wide variety of shapes and sizes far exceeding the range of earlier ceramic industries. This explosion of forms is attributed to the use of a lighter weight paste (shell-tempered). These changes have traditionally been viewed as commensurate with the introduction of shell temper (Million 1980; Million and Morse 1980; Morse and Morse 1983). If Dunnell and Feathers' assessments are accurate, and early shell tempered ceramics are as similar to Late Woodland ceramics as they suggest, then technological variables, in addition to just the presence of shell temper should be patterned.

In my analysis, temper was identified as any aplastic inclusion in the clay. All aplastic inclusions were considered temper because, as noted above, it is claimed that different kinds or combinations of inclusions have different implications for the manufacture and use life of the vessel. These implications hold regardless of whether a particular inclusion is intentionally added, the intentional product of clay selection, or the unintentional product of clay selection. Although intention cannot be tested in the archaeological record, random versus non-random variation can be. If variation within an assemblage is non-random, we can then begin explore the possibility that selective processes are operative.

Temper materials observed in the Pelts, Cummins and County Line assemblages include varying combinations of shell, grog, and sand (Table 25). All of these tempering materials have historic and geographic significance in Lower Valley prehistory. Shell temper is regarded as the hallmark of the Mississippi Period throughout eastern North America and replaces a variety of locally used materials (e.g., grog, sand, limestone, grit, etc.). In the Central Mississippi Valley, both sand and grog temper were used during the Woodland Period but have somewhat complementary spatial distributions. Grog temper was used primarily in the Mississippi Valley proper, while sand temper is confined predominantly to the Malden Plain and Western Lowlands. There are areas where both are found, but it is unclear whether their presence is contemporary or sequential.

In Woodland ceramics both sand and grog are found in greater abundance and usually coarser grain size than in the Mississippian ceramics discussed here. Consequently, in addition to measuring the presence and absence of sand, shell, and grog, coarse and fine grain sizes of each kind were distinguished. Fine, as opposed to coarse varieties, were identified when the temper medium was both sparse in quantity and small in size. This analysis generated 27 mutually exclusive classes of paste composition.

Sherd thickness and vessel part were also recorded for each sherd. These dimensions were chosen because, at the scale of

Table 25: Protocol for functional analysis of non-eroded ceramic vessel sherds (See Appendix A).

- I. PASTE COMPOSITION
 - A. SHELL
 - 0. none
 - 1. coarsely crushed
 - 2. finely crushed
 - B. Sand
 - 0. none
 - 1. coarsely crushed
 - 2. finely crushed
 - C. Grog
 - 0. none
 - 1. coarsely crushed
 - 2. finely crushed

 - II. SHERD TYPE
 - 1. rim
 - 2. neck
 - 3. body
 - 4. strap handle
 - 5. loop handle
 - 6. other (effigy fragment)

 - III. SHERD THICKNESS
(measured to nearest .01 millimeter)

 - IV. SHERD WEIGHT
(measured to nearest .01 gram)
-

assemblage, they may have functional implications. Individual sherd thickness reflects a variety of factors, such as vessel part (i.e., rim sherds are often thinner than base sherds). Overall, however, sherd thickness is often determined by functional constraints of the ceramic paste itself. This is supported by the fact that the eight major shell tempered paste classes in the County Line assemblage, sherd thickness is normally distributed (Figures 58 and 59). Consequently, it is proposed that if paste composition is functionally specific, particularly in terms of the way shell is combined with additional aplastics, then there should be significant differences between sherd thickness across different paste classes. Alternatively, if paste

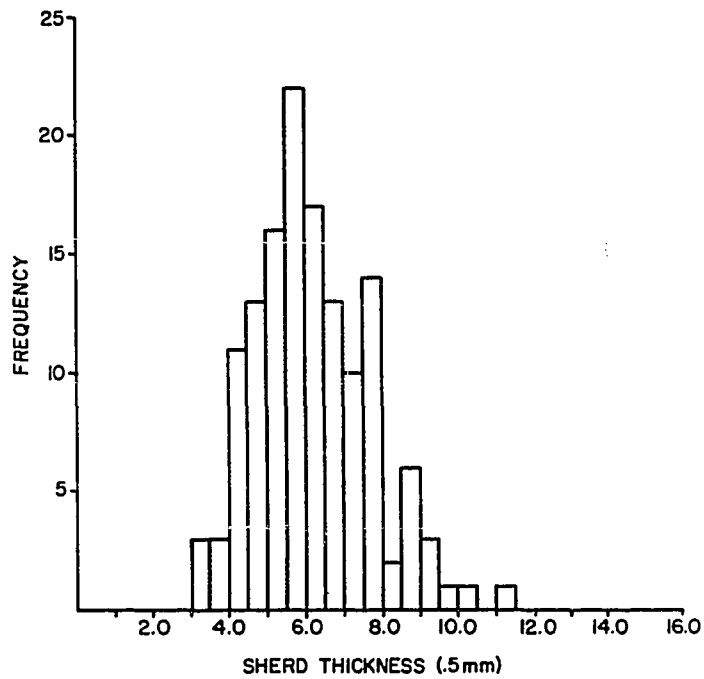
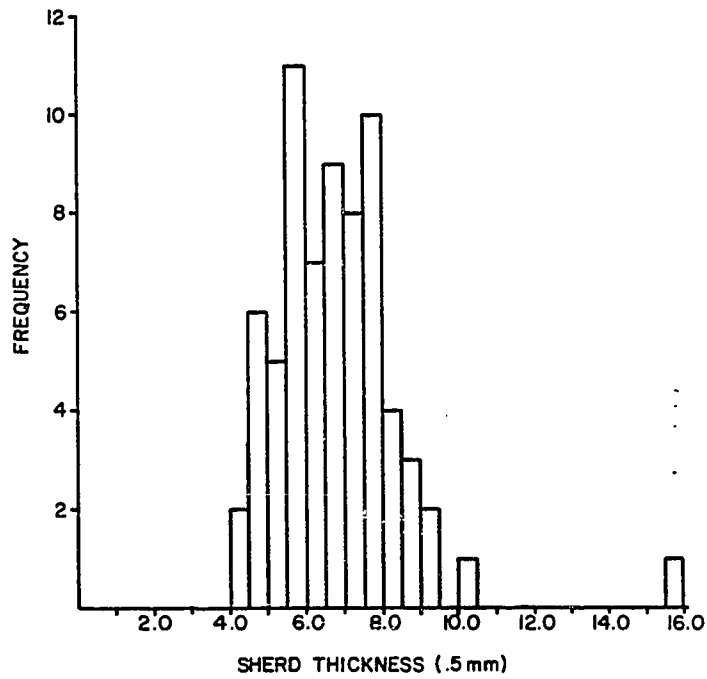


Figure 58: Histograms of sherd thickness for coarse shell tempered classes from County Line: a) coarse shell, fine sand, and fine grog; b) coarse shell and fine grog.

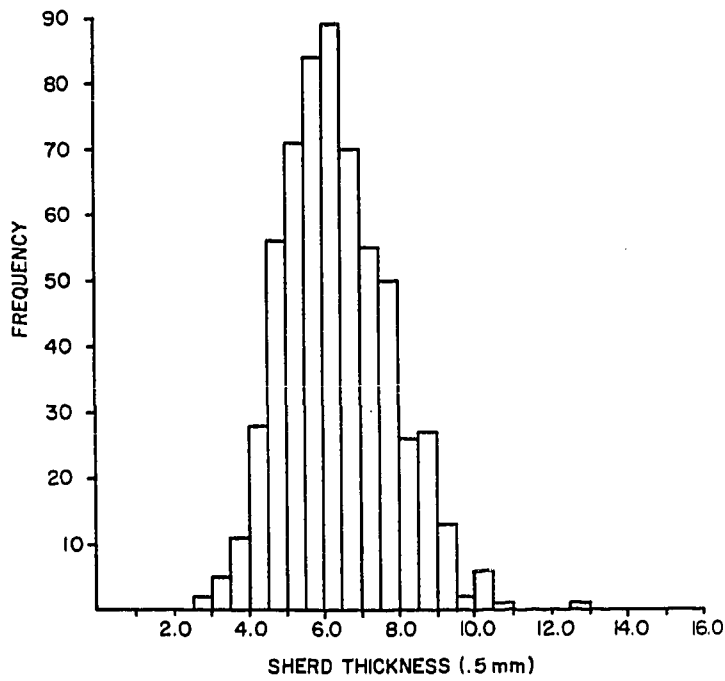
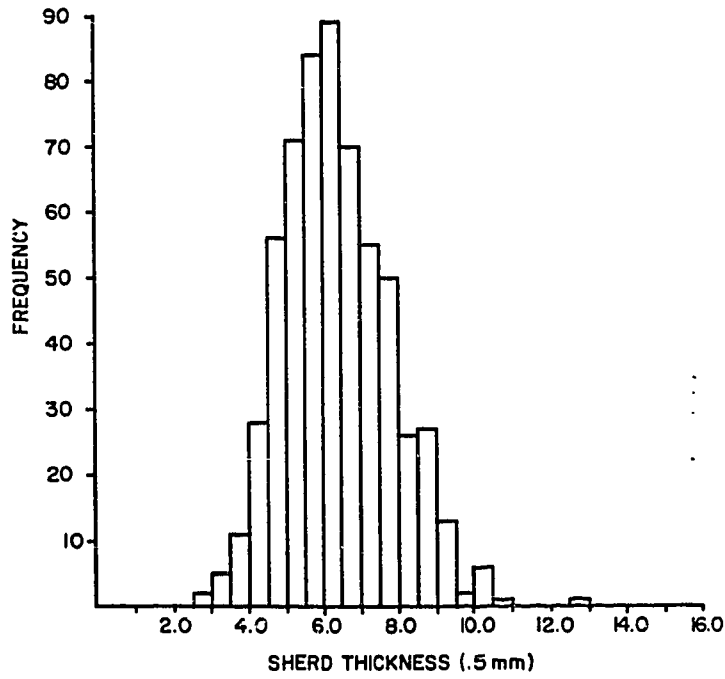


Figure 58 (continued): Histograms of sherd thickness for coarse shell tempered classes from County Line: c) coarse shell and fine grog; d) coarse shell.

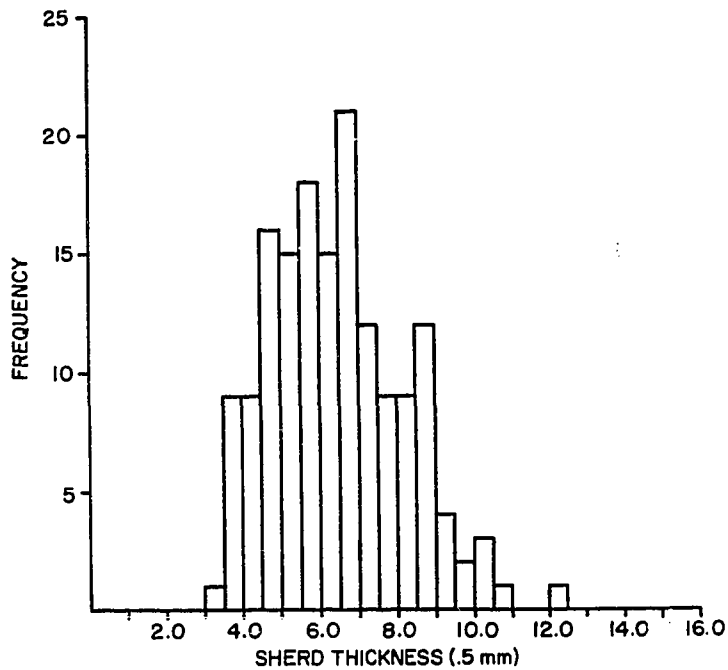
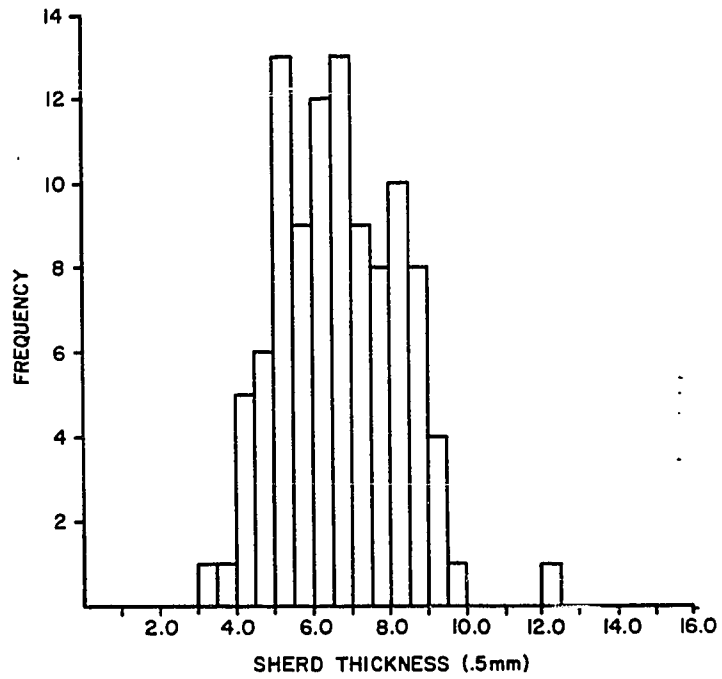


Figure 59: Histograms of sherd thickness for fine shell tempered classes from County Line: a) fine shell, fine sand, and fine grog; b) fine shell and fine grog.

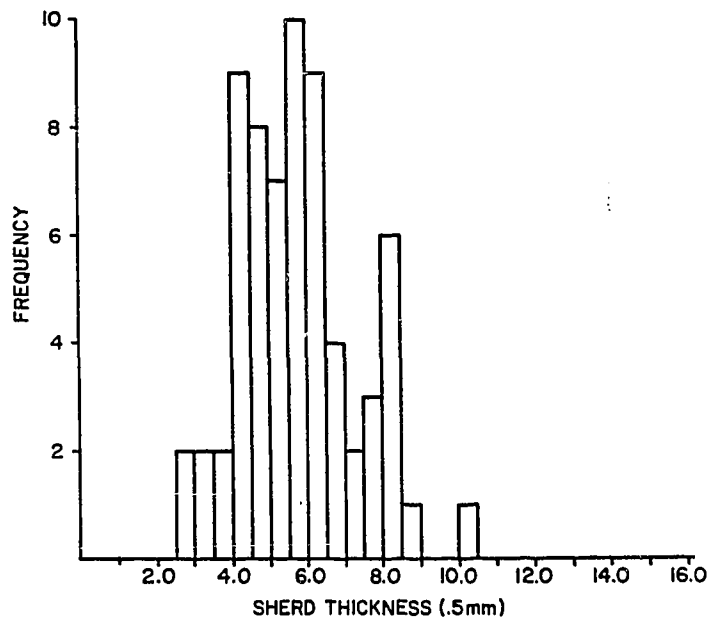
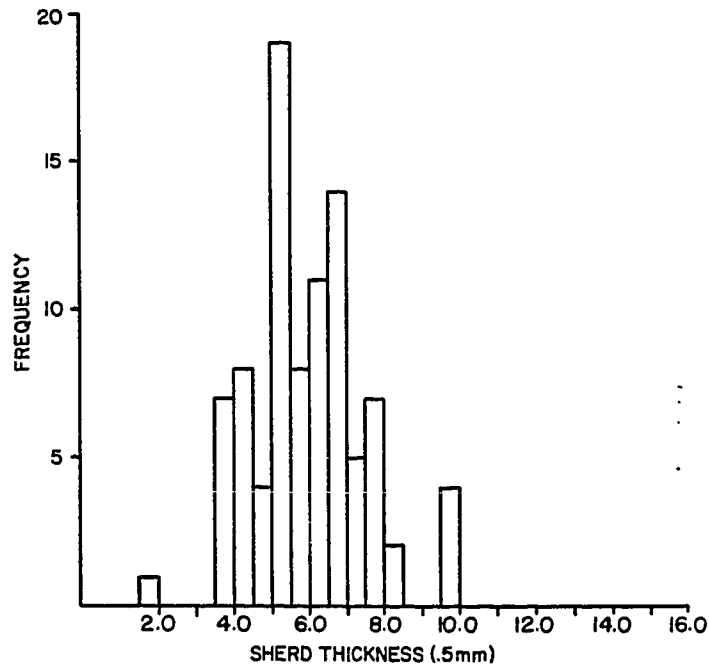


Figure 59 (continued): Histograms of sherd thickness for fine shell tempered classes from County Line: c) fine shell and fine grog; d) fine shell.

composition is random with respect to function, then there should be no significant differences between mean sherd thicknesses.

Different vessel forms, when reduced to sherds, will produce different frequency distributions of rim, neck and body sherds. On the other hand, similar vessel forms, regardless of size, will produce similar proportions of rim, neck and body sherds. If paste composition is random with respect to vessel form, then there should be no significant differences in the ratios of rim, neck, and body sherds across paste categories. Even though paste composition and fracture are closely related (cf. Dunnell and Feathers 1986) this will not effect the proportions of vessel parts represented. In other words, differential breakage across paste classes will effect the absolute numbers of sherds, but not the proportion of vessel parts.

The questions outlined above were addressed in several ways. Only the assemblage from County Line is large enough to explore the full range of variation expressed in the protocol. In this assemblage, paste classes are represented in sufficient number to examine the variation within fine and coarse shell tempered classes separately (Teltser 1987). The range of variation in this assemblage alone is apparent, with 10 of 18 possible classes represented (Table 26).

For the purpose of stylistic comparisons in Chapter Seven, I defined all finely crushed shell tempered categories as Bell Plain Paste and coarsely crushed shell tempered categories as Mississippi Plain Paste. In the following analysis, I will consider the variation within these two categories, which comprise the eight most abundant shell tempered classes represented. While differences between fine and coarsely crushed shell are noted, and discussed in terms of differentiation between the two paste classes. However, the focus of this analysis is on the variation within these categories since they are, by definition, different.

Table 26: Sherd frequencies, according to paste composition, for the County Line assemblage. The eight categories italicized are used in the analysis below.

<u>PASTE*</u>	<u>RIM</u>	<u>NECK</u>	<u>BODY</u>	<u>HANDLE</u>	<u>LOOP</u>	<u>TOTAL</u>	<u>PERCENT</u>
FS, SH,FG	3	9	59	0	0	71	3.4
SH,FG	11	13	113	0	1	138	6.7
FS, SH	19	84	494	2	4	603	29.3
SH	35	127	605	1	3	771	34.7
FS, FSH,FG	19	17	90	0	0	126	6.1
FSH, FG	23	12	140	0	1	176	8.5
FS, FSH	1	9	80	0	0	90	4.4
FSH	6	5	57	0	0	68	3.3
FS, FG	0	0	6	0	0	6	.3
FG	0	0	2	0	0	2	.1
FS	0	0	4	1	0	5	.2
SD, SH	0	0	1	0	0	1	.1
SD, FSH, FG	0	0	1	0	0	1	.0
SD, FG	2	0	1	0	0	3	.0
SD						390	15.91
TOTAL	119	276	1653	4	9	2451	

*SH=coarsely crushed shell, FSH=finely crushed shell; FS=fine sand; SD=coarse sand; FG=fine grog.

Vessel Elements

Comparisons of vessel parts across paste classes were made using chi-square tests (Tables 27 and 28). These analyses determine whether vessel forms are independent of paste composition. For these tests, a null hypothesis states that vessel part frequencies are independent of paste composition, or, that vessel part frequencies are the same across paste categories. If the null hypothesis is rejected (with a X^2 value that has a probability less than 0.05), then the results support an alternative hypothesis, that vessel part frequencies, and by implication vessel forms, are different across paste categories.

For the coarse shell categories, $X^2 = 11.61$ ($p=0.07$), indicating vessel parts are consistent across paste classes. For the fine shell categories, $X^2 = 17.19$ ($p=0.009$) indicating that the frequencies of vessel parts are not consistent across paste classes. These results make intuitive sense in that coarse shell is ordinarily associated with domestic wares while finely crushed shell temper is ordinarily associated with the more elaborate wares used for grave furniture.

Table 27: Observed frequencies of vessel parts across coarse shell tempered paste classes.

<u>Paste*</u>	<u>Rim</u>	<u>Neck</u>	<u>Body</u>
SH,FS,FG	3	9	59
SH, FG	11	13	113
SH,FS	19	84	494
SH	35	127	605

$$(X^2 = 11.61; p = .07; df = 6)$$

*SH=coarsely crushed shell, FS=fine sand; FG=fine grog.

Table 28: Observed frequencies of vessel parts across fine shell tempered paste classes (adjusted residuals in parentheses).

<u>Paste*</u>	<u>Rim</u>	<u>Neck</u>	<u>Body</u>
FSH,FS,FG	19 (1.88)	17 (1.87)	90 (-2.81)
FSH, FG	23 (1.34)	12 (-1.45)	140 (.002)
FSH,FS	1 (-3.23)	9 (0.23)	80 (2.36)
FSH	6 (-0.54)	5 (-0.62)	57 (0.86)

$$(X^2 = 17.18; p = .009; df = 6)$$

*FSH=finely crushed shell; FS=fine sand; FG=fine grog.

Adjusted residuals in Table 28 are read as standard normal deviates and identify categories responsible for a significant chi-square value (Everitt 1977). These data suggest that specific pastes are being used to manufacture specific vessel forms on a consistent basis. Clearly, the more variable vessel forms represented by the fine shell categories have important stylistic implications which have been noted in analysis of complete vessels (Phillips, Ford and Griffin 1951; Phillips 1970).

That coarse shell ceramics (domestic wares) are represented in less variable forms than fine shell ceramics may reflect functional differences between fine and coarse shell as paste constituents. In other words, paste composition may have functional implications merely with respect to form variability. Whether or not the character of that variability is stylistic or functional is unknown and unknowable with these data. Nevertheless, we must understand that variation before we can determine whether it is stylistic or functional. The following analyses suggest that other factors, such as cost of paste preparation may also be operative in the way in which fine and coarse shell behave.

Mean sherd thickness

Sherd thickness was examined among coarse and fine shell temper classes using t-tests in two sets of comparisons: 1) controlling for presence and absence of fine crushed grog; and 2) controlling for presence and absence of fine grained sand.

In the first comparison (Table 29), when grog is held constant, there are significant differences in coarse shell classes based on the presence and absence of fine sand, but no corresponding difference among the fine shell categories. In the second comparison (Table 30), when fine sand is held constant, there are significant differences between both pairs of fine shell categories and only one pair of coarse shell categories (with sand).

Experimental work in ceramic technology, particularly in regard to shell tempering, has indicated that shell temper provided an overall

lighter (presumably in reference to density) paste, enabling larger vessels to be constructed (Million 1980; Morse and Morse 1983). Experiments with ceramic replicates tempered with different quantities and sizes of crushed shell also indicate that coarse shell tempered sherds are stronger than sand tempered sherds. In this capacity, shell functions to form a composite, producing greater strength or resistance to fracture (Dunnell and Feathers 1986). Furthermore, shell temper produces an overall tougher ceramic, in that sherds tempered with this material are less likely to break catastrophically once a fracture is initiated. My results (Tables 29 and 30) are consistent with these claims but also suggest that while strength and toughness may be important, they may also interact with additional important factors.

Table 29: Comparison of sherd thickness for major paste classes controlling for presence of shell type and fine grog.

<u>PASTE</u>	<u>n</u>	<u>MEAN</u>	<u>S.D.</u>	<u>t</u>	<u>p-value</u>	<u>T¹</u>	<u>p-value</u>
FS,SH,FG	71	6.81	1.70	2.74	.007**	2.89	.004
SH,FG	136	6.17	1.52				
FS,SH	594	6.35	1.42	2.96	.003**	2.87	.004
SH	761	6.11	1.48				
FS,FSH,FG	123	6.64	1.50	1.02	.309	1.10	.273
FSH,FG	173	6.44	1.68				
FS,FSH	90	5.96	1.50	.74	.459	.76	.446
FSH	67	5.78	1.59				

*SH=coarsely crushed shell, FSH=finely crushed shell; FS=fine sand; FG=fine grog.

**significant at $\alpha=0.05$

¹Although analysis of variance would also be appropriate here, the questions pursued here are such that I wished to examine pairs of classes on the basis of paste composition. Statistics generated from an ANOVA testing for a priori contrasts are provided (T, and their respective probabilities). In no case does the procedure alter the conclusion.

Table 30: Comparison of sherd thickness for major paste classes controlling for presence of shell type and fine sand.

<u>PASTE*</u>	<u>n</u>	<u>MEAN</u>	<u>S.D.</u>	<u>t</u>	<u>p-value</u>	<u>T¹</u>	<u>p-value</u>
FS,SH,FG	71	6.81	1.70	2.16**	.032***	2.18	.032
FS,SH	604	6.35	1.42				
SH,FG	136	6.17	1.52	.43	.699	.42	.671
SH	761	6.11					
FS,FSH,FG	123	6.64	1.50	3.25	.001***	3.26	.001
FS,FSH	90	5.96	1.50				
FSH,FG	173	6.44	1.68	2.80	.006***	3.10	.002
FSH	67	5.78	1.59				

*SH=coarsely crushed shell, FSH=finely crushed shell; FS=fine sand; SD=coarse sand; FG=fine grog.

**separate variance estimate used, test for homogeneity of variance was significant.

***significant at $\alpha=0.05$

¹Although analysis of variance would also be appropriate here, the questions pursued here are such that I wished to examine pairs of classes on the basis of paste composition. Statistics generated from an ANOVA testing for *a priori* contrasts are provided (T, and their respective probabilities). In no case does the procedure alter the conclusion.

Within the coarsely crushed shell categories, there is a significant difference when grog is held constant while the presence or absence of sand is compared. The presence of sand in the coarse shell categories produces consistently thicker walled vessels. Fine shell categories do not show significant differences based on the presence or absence of sand. These results are consistent with the claim that fine shell does not provide the same advantages as coarse shell in strength and toughness (Dunnell and Feathers 1986: Table 5). That overall strength and toughness is not an important factor for the fine shell categories is also consistent with the ceremonial versus utilitarian distinction typically made between these two paste classes.

It is also interesting to note that there is no significant difference in mean sherd thickness when all fine shell ceramics are compared with all coarse shell ceramics ($t = -.6$; $p = .549$). This is probably a function of overall vessel size. If the ceremonial versus domestic distinction between these two paste classes is valid, then one would expect that larger vessels have thicker walls (presumably those with coarse shell being used for storage and cooking). The important point is that the functional significance of coarse shell temper should be seen in its ability to provide greater strength and toughness through thinner walls, but thinner relative to overall vessel size.

Summary

Comparing mean sherd thickness based on the presence or absence of fine grog indicates that variability in shell tempered ceramics is indeed complex and involves several competing factors. Grog has a structure more similar to sand than shell being round rather than plate-like. Although replication studies have not been conducted, one suspects that grog is also similar to sand in compromising strength and toughness. The results in Tables 29 and 30 support this in that three of the four tests comparing the presence or absence of grog show significant results. Furthermore, when those results are significant, classes with grog are thicker.

The advantage of grog temper is well known. It provides an excellent means of buffering against stress of thermal shock both in the manufacture and use of the vessel. This suggests that while the addition of grog may compromise strength and toughness through thicker walled vessels, the advantages it imparts to the ceramic are sufficiently great, so that the use of this medium became fixed among Malden Plain ceramics.

The advantages of sand temper are unclear. It is unlikely that the sand temper found in Barnes ceramics is solely a function of the clay source (Dunnell and Feathers 1986), although the finer grained sand in the Mississippian ceramics may be. Nevertheless, we must

assume that some means of purifying the raw material were known. If the presence of sand is a function of clay source, it is possible that the cost of purging this finer sand fraction from the paste was not balanced by the advantage to the manufacture or use of the vessel.

Lithic Analysis

As archaeologists begin to address functional questions on a more routine basis, a burgeoning interest in lithic industries has developed (e.g., Butler and May 1984; Vehick 1985). Yet, apart from the more specialized aspects of Mississippian lithic assemblages, little is known about the character of local lithic reduction strategies. This topic has been virtually ignored in Mississippian studies despite compelling reasons for pursuing it.

Lithic materials however, are relatively scarce in relation to ceramic materials. This is particularly true of temporally sensitive "diagnostic" formed tools and is well reflected by the fact that description of Mississippian lithic assemblages are usually overshadowed by ceramic descriptions. An added dimension to Mississippian lithic industries is added when one takes into account that the Central Mississippi Valley is a stone-poor environment. Certainly the procurement and utilization of lithic resources were heavily influenced by these factors.

Apart from the stylistic analysis of bifaces, several aspects of Mississippian lithic utilization have been topics of long standing interest including the microlith industry (Mason and Perino 1961; Morse 1974; Morse and Sierzchula 1980; Yerkes 1983), hoe production (Holmes 1919) and trade of non-local raw materials (cf. Butler and May 1983). These features, particularly the microlith industry, have taken on a peculiar role in Mississippian studies in that they are used to make specific evolutionary claims about the degree of cultural complexity among Mississippian populations (Morse 1974; Morse and Morse 1983; Yerkes 1983; Prentice 1985). While these claims are highly controversial and debates range from empirical to theoretical issues

(see Muller 1984; 1986b; Yerkes 1983; 1986; and Prentice 1983 for discussions), many such claims are made on the basis of detailed and time consuming analytic techniques (Yerkes 1983; Prentice 1985).

A problem with these studies and their approach are two-fold. On a theoretical level, using traits as indicators of socio-political complexity results in the same problems as those outline when attempting to use traits to define "Mississippian". In short, this approach is grounded in an essentialistic framework and employs typology at an inappropriate scale of analysis. This issue in regard to the archaeological study of social complexity is discussed in detail by Leonard and Jones (1987). On an empirical level, using only a relatively small aspect of an entire lithic assemblage (which is only a portion of a much larger assemblage) as an indicator of cultural complexity is unconvincing, no matter how valid, detailed, or time consuming the analytic methods. The results of more detailed studies can only be made in the context of a broader understanding of Mississippian lithic technology. Consequently, the analysis of lithic materials presented here focuses on technological aspects of the debitage assemblages. Identical protocols were followed in analyzing materials from the Cummins, Pelts, and County Line sites (Appendix B). Because the sample size from Cummins is so small, and because of a lack of temporal control over the materials from Pelts, this analysis is confined to the County Line materials.

Raw Materials

Most of the raw materials from the Cummins, Pelts, and County Line sites are local. The source of these materials is the gravel deposits located on Crowley's Ridge, located approximately five miles from County Line. Crowley's Ridge is a Tertiary remnant, composed of glacial outwash gravels of diverse origin and composition, including cherts, quartzites, and sandstones.

The most abundant non-local lithic materials are Mill Creek, Burlington cherts, from Illinois, and Dover cherts from Tennessee. Smaller quantities of other non-local materials such as Kaolin chert,

Pitkin chert, and igneous materials, probably from the Ozarks are also represented (Table 31). These materials are known to have been widely traded throughout the Central Mississippi Valley by Mississippian populations. In particular, Mill Creek and Dover cherts were extensively traded in the form of bifacially chipped hoes. These cherts are represented in the County Line assemblage, and many specimens display striations and gloss, characteristic of use-wear found on hoes (Table 32).

Table 31: Lithic Raw Materials from the County Line assemblage. Weights given to the nearest gram.

Material	Debitage		Cores		FCR	
	Count	Weight	Count	Weight	Count	Weight
Crowley's						
Ridge Cherts	1406	1443.0	79	956.0	85	842.0
Quartzite	27	69.0	3	265.0	29	542.0
Mill Creek	18	31.0				
Dover	10	10.0				
Burlington	7	15.0	1	16.0		
Kaolin	4	4.0				
Pitkin	2	.1				
Hematite	43	115.0				
Quartzite	6	262.0				

Table 32: Cherts of non-local origin from County Line.

Material	flakes	resharpening flakes	chunks	other
Burlington	2	0	3	2*
Mill Creek (9)	5	7	4	
Dover (1)	7	1	2	
Kaolin	4	0	0	
Pitkin	1	1	0	

*Madison triangular projectile point and exhausted core of Burlington chert. Number of "hoe chips" are in parentheses.

The wide distribution of bifacially chipped hoes in Mississippian assemblages clearly reflects the importance of these items. The high frequency of resharpening flakes (defined by platforms with former bifacial edges) with glossy use-wear, also reflects the extent to which these tools were heavily relied upon and recycled (Table 32). These non-local cherts, particularly Mill Creek, are extremely tough and difficult to work, and not at all superior to those from Crowley's Ridge for purposes other than manufacturing hoes. Their superiority is only a function of the size and shape of the nodules in which they occur. Nevertheless, the form in which these chert materials are recovered (exhausted cores, shatter, worked flakes, and bifaces) indicates that the raw materials were heavily recycled. The lack of immediately available lithic materials would dictate extensive recycling of exhausted or broken hoes for other purposes.

Technological Analysis

Most units commonly defined in technological analyses of lithic artifacts are created to describe stages in reduction sequences (e.g., Raab 1979; Jeffries 1982; Binford and Quimby 1963; White 1968). These typologies, here "stage typologies", begin by setting out a general model of lithic reduction (e.g., bipolar reduction, biface reduction, or core reduction) and use a variety of attributes, or combination of attributes, to group lithic debitage into categories corresponding to stages in the model. This approach is not followed here.

The problems in applying stage typologies for the analysis of lithic debitage have been identified and discussed by Sullivan and Rozen (1985). These authors argue that a lack of standardization in the number of categories, category labels, and their corresponding definitions render results incomparable from one analysis to another. These problems can be attributed to three factors. First, there are problems that arise from breaking a continuum into discrete stages. Second, stage typologies are based on different lithic reduction models that generate the categories. Finally, no single dimension or attribute is used to define or distinguish categories. Rather,

categories are defined by several attributes which may or may not co-occur and may or may not be present on all members assigned to a stage category. This is important because without necessary and sufficient criteria for membership into categories, stage typologies are not true classifications, but grouping devices based on the empirical contingencies of specific assemblages.

These problems are symptomatic of more far reaching theoretical problems inherent in stage typologies. They involve circular reasoning and they suppress technological variation. Because the reduction strategy is embedded within the stage typology, an *a priori* assumption is made that the reduction strategy is known. The source of this knowledge is usually obscure. Category definitions are often taken from a variety of standard sources on replication experiments (e.g., Crabtree 1966) or from experiments specific to a particular study (e.g., Raab et al. 1979; Kelterborn 1984). In other words, the reduction model is based largely on analogy with replication experiments that have been shown to produce the kinds of products (or by-products) as those observed in the archaeological record. This assumes a deterministic relationship between stage of production, techniques used, and the kind of products generated. The contingencies of raw materials, strategy, and techniques preclude such a relationship *a priori*. Furthermore, little attention is given to the problem of equifinality, as many studies show that a variety of reduction processes can produce the same products (J. Clark 1982; Newcomer 1971).

It is impossible to assign a given artifact to a technological stage with any certainty. The tendency to do so reflects a desire to reconstruct human behavior at an inappropriate scale (e.g., the scale of artifact rather than the scale of assemblage). The model is embedded within the categories, inferences are made at the scale of identification and consequently, there is ultimately no way to test the model. Given that the goals are to describe the lithic industry and elucidate the reduction process, the logic becomes circular.

Within such an analytic framework, there is no way to systematically compare different reduction strategies because they have

been grouped into categories using different criteria. Thus, stage typologies only serve to obscure technological variation. Analytic results can only measure differences between different "kinds" of technologies, rather than expressing technological variation.

It is peculiar that there is a wide consensus as to what variables of chipped stone artifacts are technologically relevant, but there are few examples where any are used to describe an entire assemblage on a systematic basis (cf. Amick 1985; Johnson 1986; Sullivan and Rozen 1985). Furthermore, the archaeological questions underlying the use of stage typologies (e.g., what portions of the reduction sequence were performed and where were they performed), are important ones for subsistence-settlement studies as well as for understanding lithic resource utilization.

In summary, there are serious problems in conventional technological analysis of lithic artifacts. These problems arise from an uncritical use of analogy embedded in the categories and the inability of these typologies to express technological variation. Consequently, given the little information regarding the nature of Mississippian chipped stone industries, it seems most parsimonious to employ a descriptive device that makes as few assumptions as possible regarding the nature of the reduction strategy.

The analysis presented here makes use of technologically relevant variables (or dimensions) and systematically applies them to the entire debitage assemblage (Table 33). No assumptions regarding stage of reduction or the reduction strategy are made. This analysis does not exhaust the full range of technological variation possible, but uses several dimensions that are usually considered relevant in the delineation of production stages (e.g., presence of cortex, platform type, platform lipping, number of flake scars, flake termination). These dimensions (Table 33) were applied to the entire debitage assemblage including flakes, broken flakes, and shatter or chunks.

Cores are defined by and distinguished from the debitage and otherwise unmodified lithic materials by the presence of negative flake scars and prepared striking platforms. Since the technological

attributes of cores differ from other kinds of debitage, additional measurements were recorded for the cores (Table 34), although they were easily incorporated into the general debitage analysis.

The analytic protocol for debitage (excluding cores) includes measurement of nine variables or dimensions (Table 33, see Appendix B). Kind of platform refers to the point of impact on a flake and includes not only the kind of platform observed, but also kinds of breakage in the event that a platform was absent. By definition, this dimension is not applicable to chunks and cores. Specific kinds of breakage are incorporated into this dimension so that patterns of breakage can be explored. This was done because breakage can occur in manufacture, during use, or after deposition and some authors suggest that these contexts produce specific kinds of breakage.

Platform preparation is measured by the presence of crushing on the platform and/or on the dorsal surface of a flake just below the platform. This dimension is not applicable to flakes without platforms, and by definition, to cores or chunks.

The presence of platform "lipping" is observed by examination of a flake in longitudinal cross section. This dimension is not applicable for flakes without platforms, and by definition, cores or chunks. The presence or absence of cortex is recorded for all debitage classes, as is the number of flake scars on the dorsal surface. By definition, the number of flake scars is not applicable to chunks. Termination is recorded for all debitage with a platform. It is not applicable to cores or chunks.

The presence of wear is recorded as the number of "tools" observed on each object, and extended to all debitage. Since a single object could have been used for more than one purpose, it is possible that more than one location or pattern of use-wear can be identified for a single object. Thus, tools are defined as distinct loci of use wear (cf. Campbell 1981; Dunnell and Beck 1979; Dunnell and Campbell 1977).

Table 33: Protocol for technological analysis of lithic debitage (See Appendix B).

-
-
- I. PLATFORM
 - 1. cortex
 - 2. one flake scar (single facet)
 - 3. more than one flake scar (multi-faceted)
 - 4. former biface edge
 - 5. fragmentary
 - 6. platform absent; hinge fracture
 - 7. absent with step fracture
 - 8. absent with lateral snap
 - 9. not applicable (cores and chunks)
 - II. PLATFORM PREPARATION (crushing)
 - 0 no crushing on platform
 - 1. crushing on platform
 - 9. not applicable
 - III. PLATFORM "LIPPING"
 - 0. no lipping of platform
 - 1. lipping present
 - 9. not applicable
 - IV. CORTEX
 - 0. cortex absent on dorsal surface
 - 1. cortex present on dorsal surface
 - V. NUMBER OF FLAKE SCARS (DORSAL SURFACE)
 - VI. TERMINATION (distal end)
 - 1. feather
 - 2. hinge
 - 3. step
 - 4. lateral snap
 - 9. not applicable
 - VII. NUMBER OF TOOLS
 - VIII. MATERIAL TYPE
 - 1. Crowley's Ridge Chert
 - 2. Crowley's Ridge Chert, almost quartzite
 - 3. Crowley's Ridge Quartzite
 - 4. Mill Creek Chert
 - 5. Dover Chert
 - 6. Burlington Chert
 - 7. Kaolin Chert
 - 8. Pitkin Chert
 - 9. sandstone
 - 10. indeterminate
 - IX. WEIGHT
-

Table 34: Protocol for analysis of cores.

-
-
- I. WEIGHT
 - II. SHAPE
 - 1. discoidal cores
 - 2. discoidal fragment/broken
 - 3. tabular
 - 4. tabular fragment/broken
 - 5. bipolar flake
 - 9. indeterminant
 - III. NUMBER OF FLAKE SCARS
 - IV. RAW MATERIAL (see Table 33).
 - V. LENGTH
-

Material type is identified for all debitage. Because of the variable age of the Crowley's Ridge gravels, they exhibit a wide range of variation and this is reflected in the assemblage. Consequently, three different categories of Crowley's Ridge chert were recognized.

Complete flakes, broken flakes, and chunks can be distinguished easily by the way they are coded. Only complete flakes are considered in the following analysis. Complete flakes are distinguished by the presence of a point of impact (modes 1 through 5 for dimension I), either a feather or hinge termination, and intact flake margin (mode 0 for lateral breakage). In the key, there is a distinction between step and snap termination. The former is ordinarily associated with breakage during manufacture while the latter is considered broken after manufacture. Pragmatically, there are problems in identifying the differences between them so both are treated as broken. While it would be ideal to determine the context of breakage, (manufacture, use, or post-deposition) only in a small number of cases where use-wear is truncated by breakage, is it possible to distinguish one from the other two. Since I wish to apply the same criteria to all objects independent of wear, a broader definition of "broken" was followed.

Table 35: Cores from the County Line assemblage.

Core Shape	Count	Percent
Tabular	14	16.47
Discoidal	30	35.29
Bipolar	8	9.41
Fragments	33	38.82

Middle Mississippi lithic technologies have rarely been described in technological terms and, consequently, there are no analyses upon which comparisons can be made. Most, but not all, of the cores from County Line are multi-faceted and generally spherical in shape (Table 35). This observation has led some authors to identify such reduction strategies as general core reduction as opposed to biface reduction. There is no evidence for a microlithic technology at Cummins or County Line.

Ordinarily it is assumed that most Mississippian lithic tools were chosen by expedience. Yerkes (1987) supports this on the basis of low correspondence between tool function and form. His analysis, however, was based primarily on morphology and stage typology rather than an analysis of specific technological variables. In light of the claims for specialized production within Mississippian technologies, the question arises as to whether lithic technology was specialized for the manufacture of specific kinds of flakes for use. If this were the case, one would expect the occurrence of wear to be higher among certain kinds of flakes defined by specific technological variables. Alternatively, if flakes were used opportunistically, then one would expect that flakes were chosen for use as tools primarily on the basis of adequate size and characteristics appropriate for the task at hand (e.g., edge angle, size or shape). This general expectation was tested statistically.

To assess whether weight would provide an adequate measure of flake size, I chose a sample of 102 complete flakes at random. For

each, I recorded maximum length, thickness and weight (see Appendix C). Using weight (WT) as the independent variable, and length (LT) and thickness (TH) as dependent variables, results of regression analyses indicated that thickness is more strongly correlated with weight than length (Table 36). In plotting these data and the residuals of both regressions, a log/log relationship between weight was indicated for both variables (Figures 60 and 61). After transforming the data accordingly, regression analyses indicated stronger correlations (Table 36). Here, $(\log_{10})LT$ is more strongly correlated with $(\log_{10})WT$ than $(\log_{10})TH$. Plots for both regressions show strong linear relationships (Figures 62 and 63). The residuals for $(\log_{10})TH$ on $(\log_{10})WT$ show no apparent trends while those for $(\log_{10})LT$ on $(\log_{10})WT$ shows a double outward bow. In such situations transformation of the data is suggested. Given that there is a strong linear relationship ($r^2=.92$) and that the primary purpose of this analysis is to show a relationship, these data were left to stand.

Table 36: Regression analyses for length and thickness on weight.

<u>Regression Equation</u>	<u>r^2</u>
LT = 14.1 + 3.69(WT)	.64
TH = 2.11 + 1.32(WT)	.80
LT = 101.32 * WT ^{2.88}	.92
TH = 100.61 * WT ^{0.43}	.89

Since length and thickness are so strongly correlated with weight, and some function of length and thickness effectively measures size, an analytic decision was made to use weight as a measure of flake size.

For the sake of comparison, a distinction was made between cortex, interior flakes, and thinning flakes. Cortex flakes include all flakes with any cortex on the dorsal surface (cortex on the

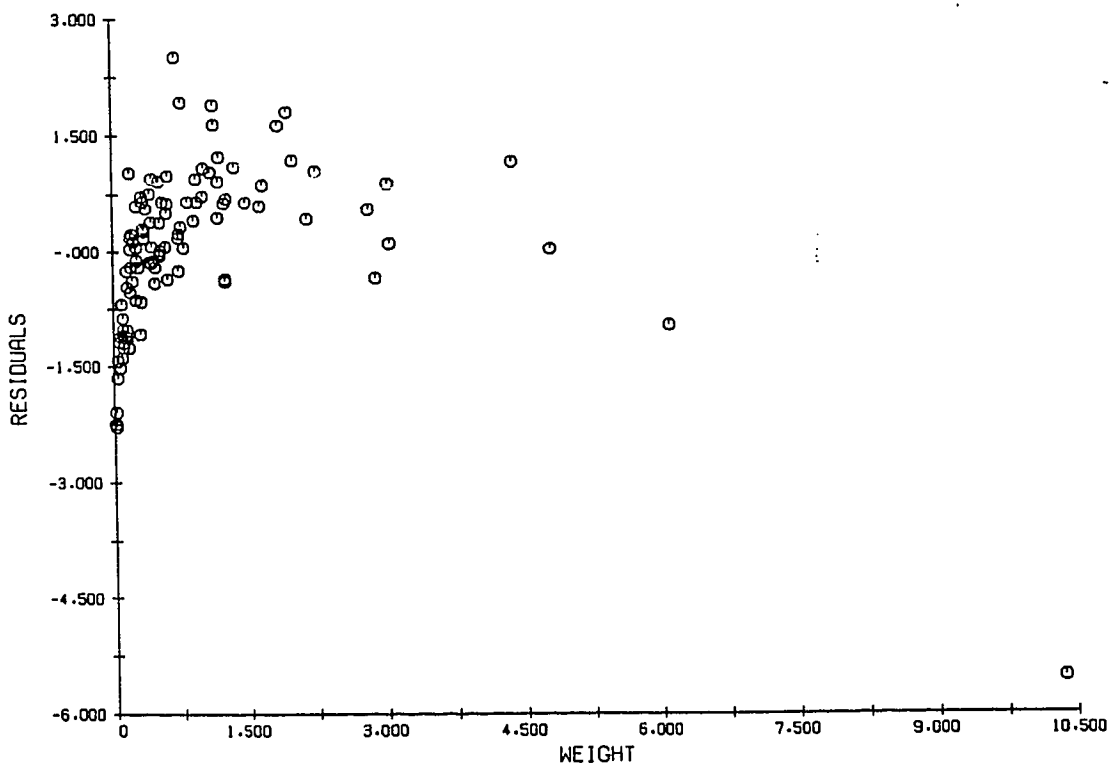
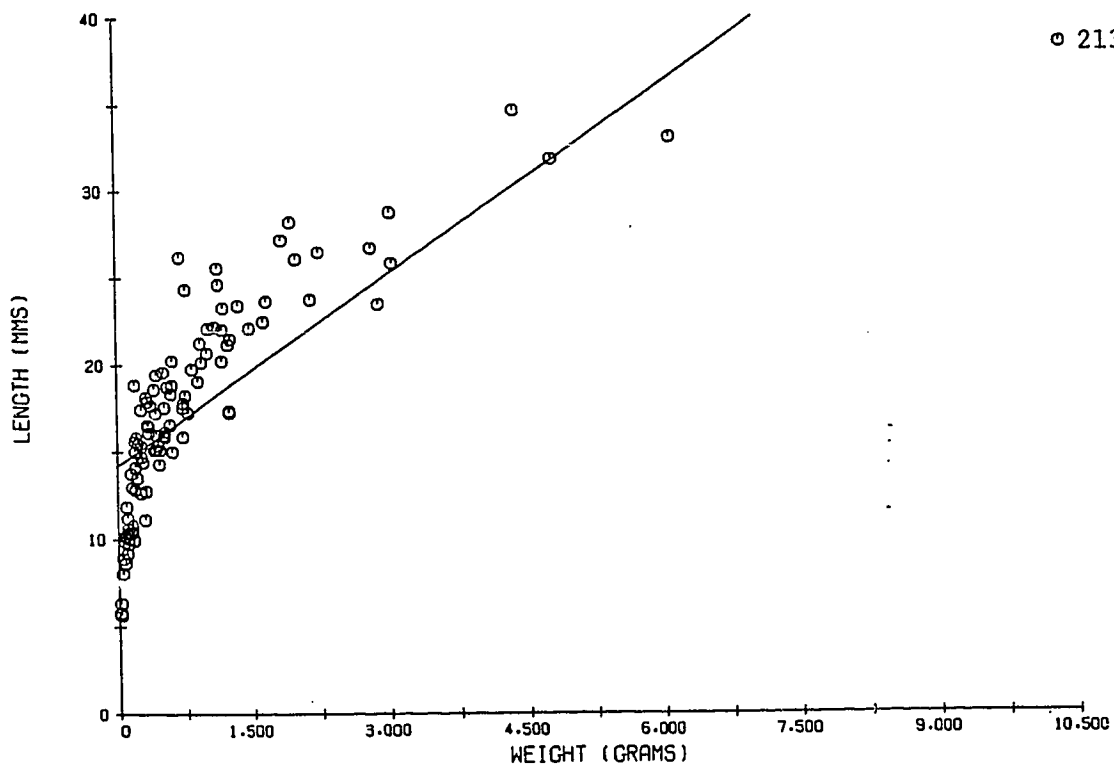


Figure 60: Relationship between flake length and weight (top); and plot of residuals from regression of flake length on flake weight (bottom).

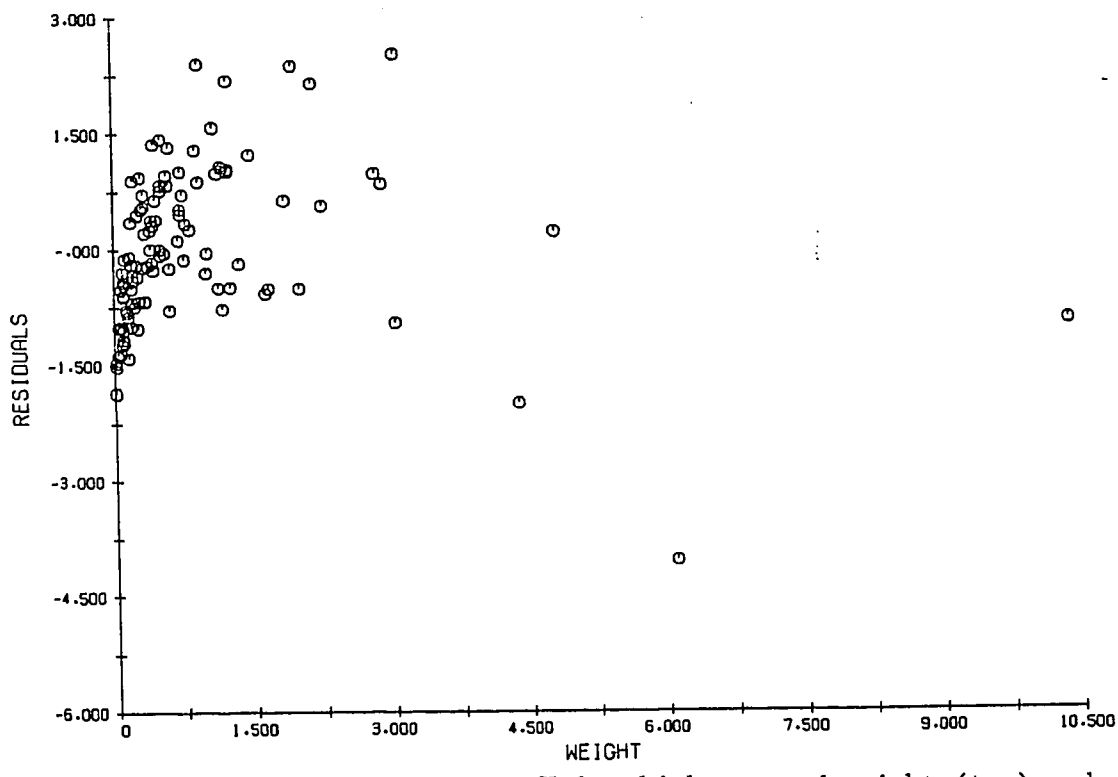
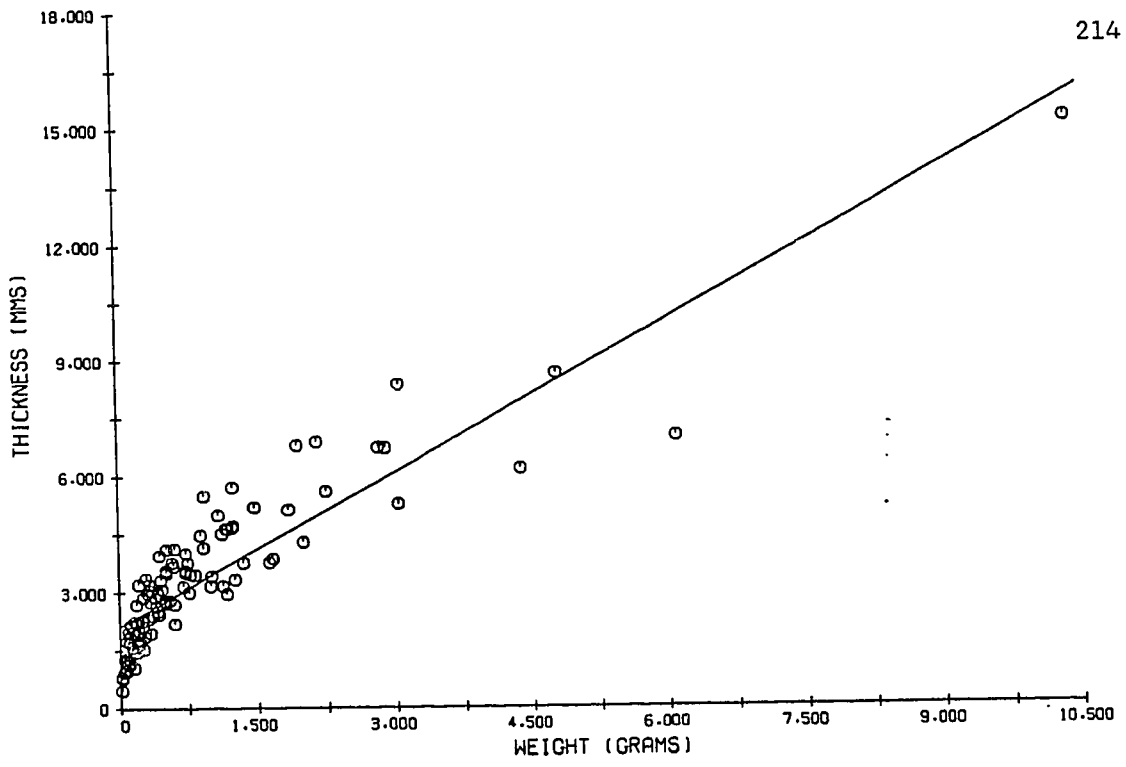


Figure 61: Relationship between flake thickness and weight (top) and plot of residuals from regression of flake thickness on flake weight (bottom).

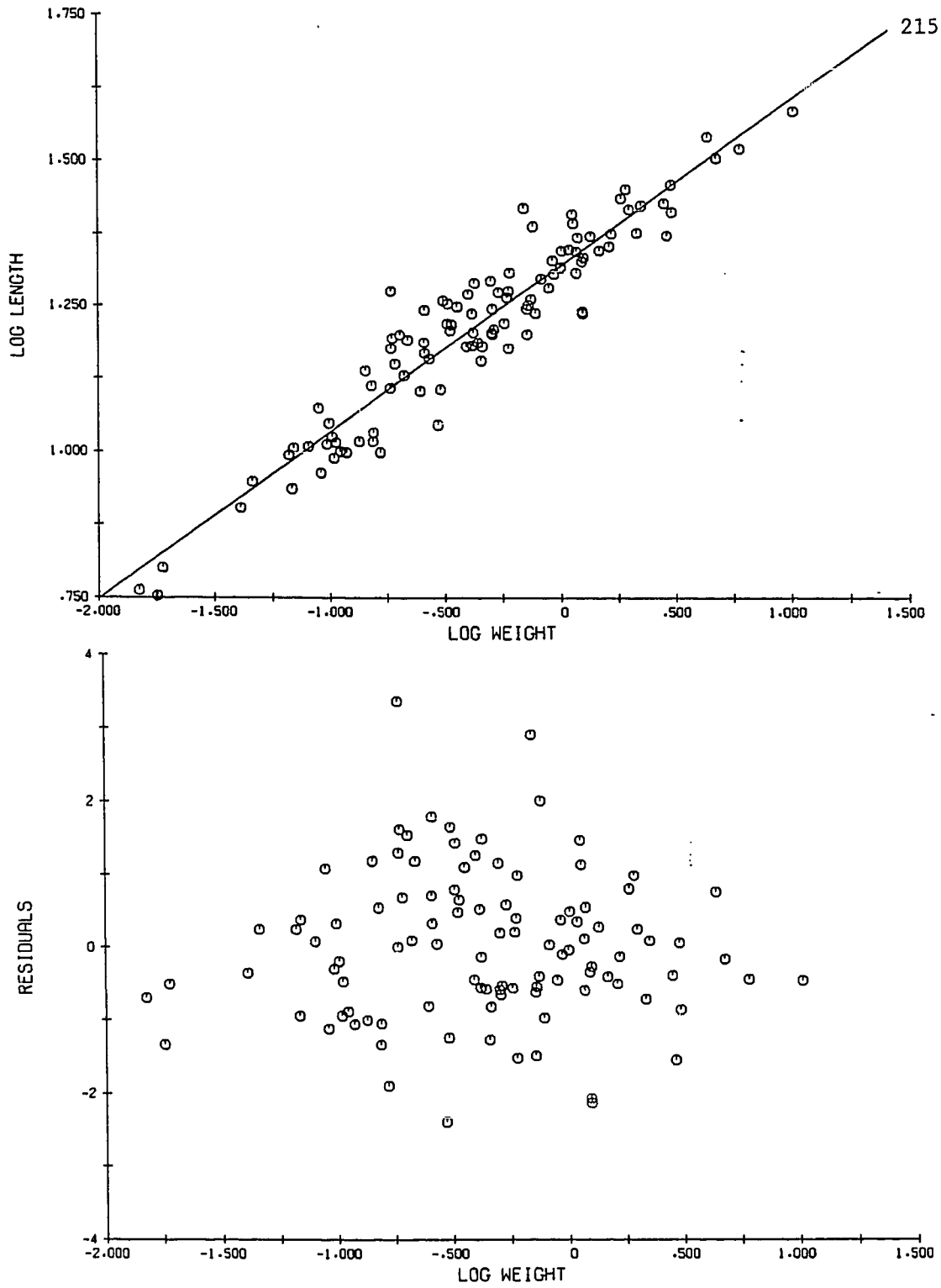


Figure 62: Relationship between \log_{10} length and \log_{10} weight (top) and plot of residuals from regression of \log_{10} length on \log_{10} weight (bottom).

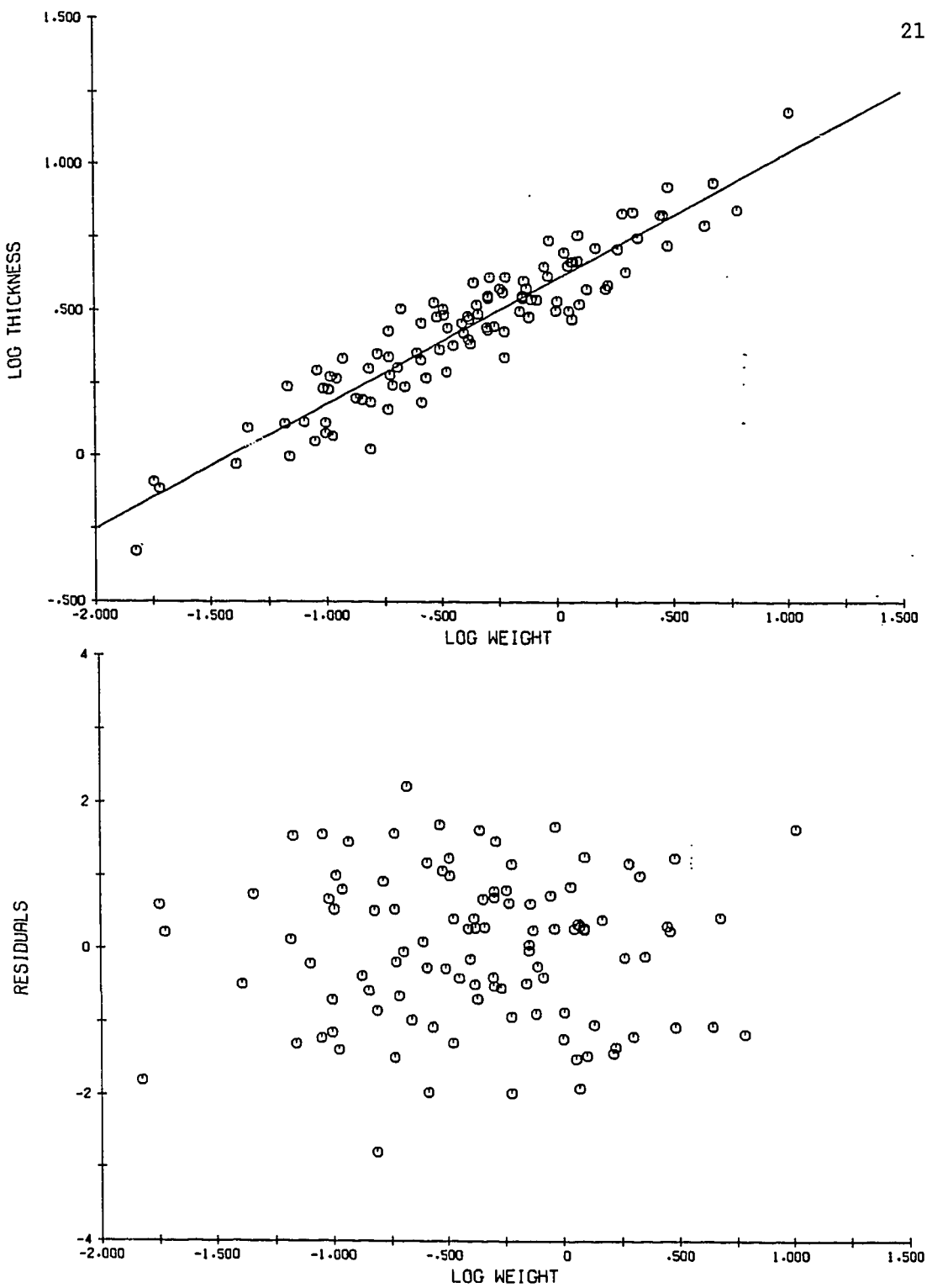


Figure 63: Relationship between \log_{10} thickness and \log_{10} weight (top) and plot of residuals from regression of \log_{10} thickness on \log_{10} weight (bottom).

platform or lateral margin did not apply). Interior flakes have no cortex on the dorsal surface. On a thinning flake the platform is a former bifacial edge and displays a distinctive "lipping" over the ventral surface of the flake. These categories are intended to reflect reduction stages in only a broad sense, rather than stages of a specific reduction strategy. A chi-square test using all complete flakes (Table 37) indicates there is no significant association between the occurrence of wear and these flake types ($X^2=3.15$; $p=.21$).

Table 37: Observed frequencies of flakes with wear across flake types for all complete flakes.

	no wear	with wear	TOTAL
cortex	160	79	239
interior	215	83	298
resharpening	33	9	42

(chi-square = 3.15(corrected); p = .21)

Using the same flake categories, an analysis of variance was used to compare mean flake weights for all complete flakes with wear. This test explores an alternative hypothesis: if flakes were being used opportunistically (i.e., chosen for their size and appropriate characteristics), then there would be no significant difference between mean size of flakes from one category to another. For the 170 complete flakes with wear, $F = 2.65$ ($p=0.07$), indicating that there is no significant difference of mean flake size across the three categories at the .05 level of significance, which supports the argument for opportunistic flake use.

To further explore the hypothesis that flake production was in some way specialized for use, the occurrence of wear on flakes was examined across specific technological variables (Tables 38 through 40). Using chi-square tests, neither platform preparation (Table 39) nor the presence of platform lipping (Table 40) are associated with the

occurrence of wear, while platform type shows statistically significant results ($X^2 = 10.23$; $p = .03$).

The adjusted residuals for the test for wear across platform type show significant values for only one category, fragmentary platforms. This information indicates that this platform type is under-represented with respect to wear, rather than over represented. In fact, when the table is partitioned and fragmentary platforms are omitted, the results are not significant ($X^2 = 2.96$; $p = .40$). Thus, insofar as platform

Table 38: Observed frequencies of flakes with wear across platform type for all complete flakes (adjusted residuals are in parentheses).

<u>WEAR</u>	<u>PLATFORM TYPE</u>					total
	cortex	simple	faceted	biface	fragment	
absent	96 (-1.43)	190 (-1.05)	50 (.40)	33 (1.20)	38 (2.68)	407
present	50 (1.43)	88 (1.05)	19 (-.40)	9 (-1.20)	5 (-2.68)	171
total	146	278	69	42	43	578

chi-square = 10.23; $p = .03$; $df = 4$

Table 39: Frequencies of flakes with wear across presence or absence of platform preparation.

<u>WEAR</u>	<u>PLATFORM PREPARATION</u>		
	absent	present	total
absent	340	67	408
present	136	35	171
total	478	102	578

chi-square = 1.07; $p = .3$ (corrected)

Table 40: Frequencies of flakes with wear across platform angle.

<u>WEAR</u>	<u>ACUTE PLATFORM ANGLE</u>		
	absent	present	total
absent	320	87	408
present	135	36	171
total	455	123	578

chi-square = 0.0; p = 1.0 (corrected)

type is concerned, it is not possible to conclude that particular kinds of striking platforms are highly associated with wear. This is important because platform characteristics are most often used as an indication of "reduction stage" and technique.

Nevertheless, a strong possibility remains that the association of wear with technological variables is more complex than the preceding analyses can accommodate, and that wear is associated with a combination of technological variables. Hence, wear across combinations of technological variables were examined (Tables 41 through 43). First the association of technological variables was considered across all flakes, then all flakes without wear, and finally, all flakes with wear. When results are significant for the entire assemblage, similar results among the sub-populations (with and without wear) are to be expected. This occurs in only one of the three cases considered. Interestingly, for two of the three combinations explored (platform preparation with acute platform angle and platform preparation with platform type), there are statistically significant results among all flakes as well as flakes without wear but no significant association among flakes with wear. These results are even less supportive to an argument favoring specialized flake manufacture.

Table 41: Results of chi-square tests for association of platform preparation with acute platform angle.

All Complete Flakes	$\chi^2 = 4.37$	$p = .0366$	**
Flakes without wear	$\chi^2 = 4.06$	$p = .0440$	**
Flakes with wear	$\chi^2 = 0.98$	$p = .3217$	not significant

Table 42: Results of chi-square tests for association of platform preparation with platform type.

All Complete Flakes	$\chi^2 = 29.34$	$p = .0000$	**
Flakes without wear	$\chi^2 = 24.00$	$p = .0001$	**
Flakes with wear	$\chi^2 = 7.20$	$p = .1257$	not significant

Table 43: Results of chi-square tests for association of acute platform angle with platform type.

All Complete Flakes	$\chi^2 = 199.95$	$p = .0$	**
Flakes without wear	$\chi^2 = 152.33$	$p = .0$	**
Flakes with wear	$\chi^2 = 56.08$	$p = .0$	**

Finally, to test the hypothesis that flakes are used opportunistically (i.e., selected primarily for size and other characteristics appropriate to the task at hand), chi-square tests for wear across weight classes were conducted. Here, weight is partitioned into five categories (Table 44). These results indicate a significant association of larger flake sizes with wear. Even though 55.6% of all flakes with wear are less than 1.0 gram, when the residuals are considered, it is clear that smaller flakes are under-represented for wear and larger flakes are over-represented for wear.

Table 44: Observed frequencies for flakes with wear across weight classes.

	WEIGHT (grams)				
	<1.0	1.0-1.99	2.0-2.99	3.0-3.99	<4.0
wear	339	36	13	5	14
no wear	95	43	13	7	13
total	435	79	26	12	27

(chi-square = 50.17535; p = .0000; df = 4)

Summary

The analysis of lithic debitage focuses on the association of technological attributes with the presence of use-wear. On the basis of this analysis, no evidence can be identified to support a specialized technology. While there is enormous variability within Mississippian lithic technology, this variability does not reflect specialized production of any kind. On this basis, it would be difficult to argue in favor of a specialized class of people to produce this kind of assemblage.

Chapter 9

SUMMARY AND CONCLUSIONS

The Mississippian archaeological record has always been recognized as one of immense variability. Enumeration and explanation of this variability has captured the attention of archaeologists since the earliest inception of a North American archaeology. Central to this research is the notion that the scientific explanation of variation in the archaeological record is the primary goal of archaeological research. This goal is best pursued in an evolutionary or historical framework. The culture historic frameworks which dominate our understanding of the archaeological record are insufficient to address evolutionary problems. The theoretical underpinnings of historical sciences have important implications for both the structure and content of interpretive frameworks necessary to describe the archaeological record. These implications are simply not met by current archaeological descriptions.

Evolutionary theory generates a model in which change is seen as the differential persistence of alternative traits through time. The key structural elements of this model are embodied by the notion of a materialist framework. In a materialist framework, "things" are continually changing and constantly emerging. The kinds of "things" that structure our observations in an essentialist framework are a function of time and space.

Variation is explained differently within essentialist and materialist frameworks. In an essentialist framework, the only variation of explanatory significance is that which determines differences between kinds of things. When "the type is real and variation is an illusion" (Mayr 1959), variation is seen as the result of interfering forces on the expression of a prototype, or merely noise. This view generates a methodology that searches for empirical units. In a materialist perspective, variation gives structure to the world, and all variation is relevant. Variation is placed in a causal role because it is what natural selection acts on. This framework generates a methodology where one documents empirical variation. What follows is

the necessity of understanding the full range of variation expressed. It is for this reason that I examined artifact classes (lithics, ceramics and settlements) which have been used to define Mississippian as an empirical entity in order to show that they are highly variable.

The problems that have been noted in defining Mississippian are symptomatic of an attempt to explain variation in the archaeological record from an essentialist perspective. The search for a Mississippian "Heartland" epitomizes this effort. By "nucleating the culture", as Willey and Phillips (1958) phrase it, variation can be assessed by comparison with a prototype and explained by expansion of a system or group of people where interfering factors affect the full expression of the natural prototype. It is important to see this as a research program logically deduced from an essentialist framework rather than a poorly conceived problem.

Continuing to rely on an essentialist framework (i.e., to view variation as a departure from a true "type") has implications for the structure of prehistory as we currently understand it. Archaeological units are perceived as empirical entities rather than theoretically informed units. Pottery types, projectile point types, or settlement types are no longer attributes of the archaeological record, but attributes of phases, periods, or stages. As such, variability within those types appears irrelevant. When homogeneity of kind is established at the expense of empirical variation, there are serious repercussions for the way "facts" are recorded and explained. The research presented here bears directly on these arguments.

Consider for example, pottery types as empirical units. This treatment assumes that a particular style or time marker appears at the same time in all places and has a uniform distribution throughout a region. This assumption denies the role of geographic effects on stylistic variation and that frequencies change across space and through time. Clearly, application of this assumption bears directly on chronological interpretation.

Although facts have no bearing on methodology *per se*, the evidence from County Line shows how erroneous conclusions can be drawn when this assumption is made. The County Line ceramic assemblage dates to at

least the late 15th century. It contains the time markers ordinarily associated with that time period, but not in abundance. These arguments are independent of, and should not be confused with the degree of precision afforded by a particular time marker when used for typological cross dating. In the context of this method, degree of chronological precision is an empirical issue. In light of the functional analysis presented in Chapter Eight, treating pottery types as empirical units completely masks the functional perspective of major changes in ceramic technology. These are important considerations if we are to understand how, why, and when ceramics change.

The same logic can be extended to the way Mississippian settlement pattern models have been used to infer systemic interactions among populations and by how piece-meal portions of a lithic industry are used as indicators of cultural complexity.

Chronological Sequences

Continuing to rely on an essentialist framework to describe the archaeological record has encouraged a research method whereby information from one local area extrapolated to others. It is for this reason that I take exception to the manner (as opposed to the validity of) in which the Vacant Quarter Hypothesis has been applied to the Malden Plain in the absence of sufficient evidence.

No aspect, whether it be a stylistic sequence or developmental trajectory, can be applied by extrapolation from one local area to another. A region cannot be assumed abandoned merely because it does not have the same ceramic sequence as those which were not; nor can a region be assumed abandoned merely because it followed a different evolutionary trajectory than other areas. The evidence from the County Line site presents a very compelling example of this argument.

The classic Mississippian time markers observed in the County Line ceramic assemblage, as well as the nucleated character of this settlement, are consistent with ceramic sequences and cultural trajectories for late Mississippi period developments in the Lower St. Francis drainage. Absolute age estimates for the ceramic assemblage

indicate that the Mississippian occupation extends from the early 14th through at least the early 16th Centuries. Extrapolation of the Vacant Quarter Hypothesis is clearly not appropriate.

As noted in Chapter Seven, the occupation at Langdon appears to have persisted even later than the occupation at County Line. Just how late that occupation persisted is unknown. Nevertheless, with secure evidence for a 15th occupation of the Malden Plain and compelling evidence for at least an early 16th century occupation, we can now put the Vacant Quarter Hypothesis to rest, at least for the Malden Plain.

Terminal dates for occupation of the Malden Plain do not address the major changes that occurred in the Memphis Subarea during the late Mississippi period. The character of that archaeological record does change in significant ways. It is likely that the Vacant Quarter Hypothesis as applied to the Northern Lower Valley does indeed mark these changes. As Lewis (1984) suggests, it is possible that the Vacant Quarter Hypothesis dates major archaeological changes during the mid-16th century following the DeSoto expedition and prior to French settlement of the region.

Settlement Variability

Mississippian settlement patterns are seen as hierarchical structures in which local populations integrated on a regional scale. This pattern was dominated by a single settlement usually orders of magnitude larger than others and characterized by a large population, mounds, and palisades. A major mound center was surrounded by settlements of smaller population size with fewer mounds; which were in turn surrounded by settlements of yet smaller population aggregates (i.e., hamlets and farmsteads). The regular spacing of higher order settlements in relation to lower order settlements are inferred to be a reflection of systemic relationships integrating local populations on social, economic, and political grounds.

Size of population aggregates, presence or number of mounds and hence, functional role in the hierarchy are tightly, if not absolutely, correlated. A considerable range of variation is recognized among

Mississippian settlements (both within and between regions). However, because Mississippian has been defined as a particular "kind" of system, the empirical patterns identified within a region represent variation only at the scale at which this kind of structure is manifest. Variation in scale is identified by the number of levels in the settlement hierarchy.

Mississippian settlement pattern models are limited descriptions in that they account neither for change through time nor for the full range of variation in Mississippian settlements. Most obviously, they do not account for the kind of settlement associated with the Cummins Mound. The association of Cummins Mound with the domestic debris surrounding it is still open to question. Even when they are assumed associated, the low density of the domestic debris does not fit the expectations generated by Mississippian settlement pattern models. Consequently, we must reconsider our ideas about hierarchical settlement structure to account for the known range of variation.

Several authors have noted that individual settlement configuration is greatly influenced by local environmental variables (Price 1978; Morse and Morse 1983), especially in areas characterized by braided stream surfaces. The braided stream topography of the Malden Plain limited the areas of land free from seasonal or permanent inundation. This would affect the degree to which large sedentary population aggregates could sustain themselves by an agriculture. The physiography of this region is conducive to a dispersed settlement pattern. This is clearly an important variable in the configuration of the Cummins site, which is located on a former channel bar deposit surrounded on two of three sides by former water courses.

To reorient our thinking about Mississippian settlement models, it is important to begin with the premise that variability gives structure to the patterns we observe. This is in contrast to the notion that local environmental factors determine the degree to which a prototypical arrangement of settlements is expressed.

The elements of Mississippian settlements that give structure to the patterns we observe include size of population aggregates, their spatial relation to one another, presence and number of mounds,

cemeteries, and other features. These elements are best examined independently. Unless it can be demonstrated that local communities were not economically independent, it must be assumed that adaptation occurs at the local scale (i.e., at the scale of occupation). Regional patterning will be the aim of local adaptations and will compromise to variable degrees any regional organization of occupations. This view is not necessarily incompatible with the regional character of Mississippian settlement systems. Rather, it allows the components of Mississippian settlement patterns to be viewed as elements in a more flexible systemic context. Ultimately, this perspective decouples population size and other settlement features (e.g., mounds or cemeteries) such that their association does not determine a kind of system. How these features are arranged (and in some cases associated) across the landscape merely reflects the variation with which "Mississippian" features are distributed.

Larger Issues

Central to this thesis is the recognition that an historical framework presents a fundamentally different view of the world than a synchronic one. Consequently, the scientific understanding of historical phenomena generates a specific methodology. Indeed, many have argued that Darwin's greatest contribution was establishing a scientific methodology for historical sciences (e.g., Gould 1986; Mayer 1959; Sober 1980).

Gould (1986) argues that Darwin's "extended treatise" on the methodology of historical sciences is composed of three principles, each predicated upon the kind of information available for making inferences. All of these principles use the results of history (i.e, observations on phenomena that exist in the contemporary world), to infer historical process and change. First, in the best possible case, large scale both the results and the processes that presumably produced those results are known. Here, a uniformitarian argument can be used to extrapolate the observed results. Second, when processes are unknown, it may be

possible to identify categories of results, observe relationships among them, and infer process. This a taxonomic approach where historical process provides an hypothesis to organize observations. Finally, when neither information on process nor results from a series of stages in a process are known, history must be inferred from a single object. Gould refers to this as the "Panda Principle":

This most common of historical dilemmas has a somewhat paradoxical solution. Darwin answers that we must look for imperfections and oddities, because any perfection in organic design or ecology obliterates the paths of history and might have been created as we find it. This principle of imperfection became Darwin's most common guide (if only because the fragmentary evidence of history often fails to provide better data in the preceding categories). . . .The panda principle is a basic method of all historical science, linguistics, and history itself, for example, not just a principle for evolutionary reasoning (Gould 1986:63).

In all three situations, the results of history are presented as phenomena in a space-like world. In such a world, only differences are observed. The goal of historical science is to explain those differences. The methodology provided by historical sciences allows us to invoke historical processes, or change.

Here, three sites with different settlement structure, different site features, and different artifact assemblages have been examined. They are separated in time, and their evolutionary relationships are unclear. These data are too meager to support a comprehensive explanation for the evolution of Mississippian populations on the Malden Plain. Yet evolutionary change proceeds at the small scale, where natural selection acts on empirical variation to produce the large scale results we strive to explain.

It is the oddities here which inform us the most. That neither the Pelts nor Cummins Mound sites conform to any predictions set by traditional hierarchical settlement models forces us to reconsider the manner in which these models were built. The wide range of variation in shell tempered ceramics, even at the scale of a single assemblage,

tells us that variability is a response to many complex and competing factors that must be compensated and in some cases perhaps, compromised.

Understanding the full range of functional variation in the archaeological record will allow us to arrange our observations in chronological sequence according to hypotheses regarding specific cultural processes. For in a time-like framework, contemporary differences are explained by change.

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APPENDIX A

CERAMIC ANALYSIS

Twelve dimensions were recorded for the sherd assemblages recovered from County Line, Cummins, and Pelts. Sherds were analyzed only when both surfaces were not eroded. No size limit was imposed. The raw data files are coded according to the key in Table 45.

Table 45: Key to the Ceramic Data.

Field 1: Site

1. County Line
2. Cummins (north)
3. Cummins (south)
4. Pelts

Field 2: X-Coordinate

Field 3: Y-Coordinate

Field 4: Paste Composition

1. coarse shell, fine sand, fine grog
2. coarse shell, fine grog
3. coarse shell, fine sand
4. coarse shell
5. fine shell, fine sand, fine grog
6. fine shell, fine grog
7. fine shell, fine sand
8. fine shell
9. fine sand, fine grog
10. fine clay
11. fine sand
12. coarse shell, coarse sand
13. fine shell, coarse sand, fine grog
14. coarse sand, fine grog
15. coarse grog
16. fine shell, coarse sand
17. fine sand, coarse grog
18. coarse sand, coarse grog

Field 5: Sherd Core (see Figure 64)

Field 6: Sherd Thickness (0.00 millimeters)

Field 7: Sherd Weight (grams)

Table 45 (continued): Key to the Ceramic Data.

Field 8: Sherd Type

1. rim
2. neck
3. body
4. strap handle
5. loop handle
6. effigy fragment
7. pipe fragment

Field 9: Exterior Surface Treatment

1. plain
2. smoothed
3. polished
4. cordmarked

Field 10: Interior Surface Treatment (same as Exterior)

Field 11: Exterior Slip

0. none
1. red
2. white
3. black
4. buff
5. grey

Field 12: Interior Slip (same as Interior)

Field 13: Lip Decoration

0. not applicable
1. absent
2. present

Field 14: Exterior Surface Decoration

1. none
2. incised
3. punctated
4. incised and punctated
5. grooved (for handles)

Field 15: Interior Surface Decoration (same as Exterior)

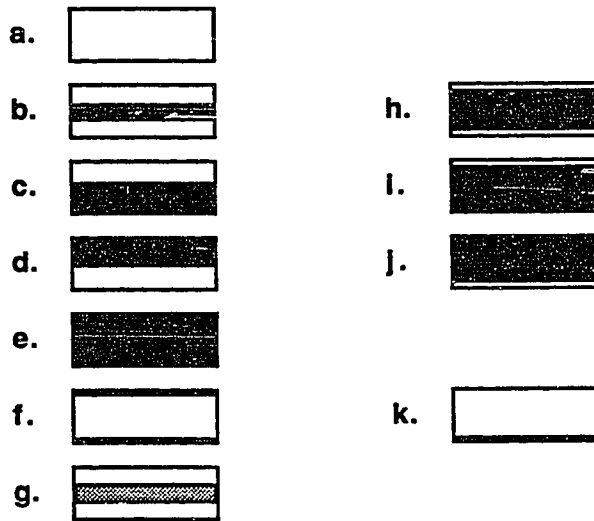
SHERD CROSS SECTION

Figure 64: Modes recorded for sherd firing core depicted as cross-sections of sherds.

1 504 480 2 22 5.10 1.2 2 1 1 0 0 0 1 1
1 504 492 4 1 4.93 1.0 3 1 1 0 0 0 1 1
1 504 496 5 4 4.30 0.3 3 1 1 0 0 0 1 1
1 504 500 5 4 5.36 2.0 1 2 2 0 0 1 1 1
1 512 480 1 5 8.81 0.6 3 1 1 0 0 0 1 1
1 512 488 9 99 7.23 4.8 3 1 1 0 0 0 1 1
1 512 488 4 2 7.25 1.3 3 1 1 0 0 0 1 1
1 512 492 7 1 3.91 0.5 3 1 1 0 0 0 1 1
1 512 492 4 22 5.77 0.3 3 1 1 0 0 0 1 1
1 520 484 3 2 5.50 1.3 3 1 1 0 0 0 1 1
1 520 500 3 5 4.52 0.3 2 1 1 0 0 0 1 1
1 520 500 8 65 6.67 1.2 3 1 1 0 0 0 1 1
1 520 508 1 2 7.27 3.5 3 1 1 0 0 0 1 1
1 520 508 4 22 5.72 0.9 3 1 1 0 0 0 1 1
1 520 512 3 66 8.68 2.7 1 2 2 0 0 1 1 1
1 520 518 3 2 5.65 0.5 3 1 1 0 0 0 1 1
1 520 518 6 66 8.18 3.0 3 2 2 0 0 0 1 1
1 520 520 3 66 5.38 1.5 1 1 1 0 0 1 1 1
1 520 520 4 22 7.13 9.3 1 1 1 0 0 1 1 1
1 520 524 1 1 10.07 2.0 2 1 1 0 0 0 1 1
1 520 524 8 4 4.63 0.7 3 1 1 0 0 0 1 1
1 520 524 4 4 5.42 0.5 1 1 1 0 0 1 1 1
1 520 528 5 5 5.55 2.7 3 2 2 0 0 0 1 1
1 520 528 4 4 4.80 0.3 3 1 1 0 0 0 1 1
1 520 540 10 2 6.45 1.0 3 1 1 0 0 0 1 1
1 520 544 3 2 6.90 2.0 3 1 1 0 0 0 1 1
1 520 544 4 22 7.88 2.1 2 1 1 0 0 0 1 1
1 520 548 5 6 12.08 8.5 2 2 1 0 0 0 1 1
1 520 548 8 1 4.17 1.6 3 1 1 0 0 0 1 1
1 520 552 8 22 4.20 0.9 3 1 1 0 0 0 1 1
1 520 552 4 1 6.61 0.9 3 1 2 0 0 0 1 1
1 520 552 4 22 7.22 1.2 3 1 1 0 0 0 1 1
1 520 552 4 55 8.10 0.8 3 1 1 0 0 0 1 1
1 520 552 4 66 9.69 8.8 3 1 1 0 0 0 1 1
1 520 552 4 22 7.88 3.8 2 1 1 0 0 0 1 1
1 520 552 4 66 10.75 7.7 2 1 1 0 0 0 1 1
1 520 556 6 5 5.67 3.5 3 2 2 0 0 0 1 1
1 520 556 4 55 6.01 1.2 2 1 1 0 0 0 1 1
1 520 572 3 99 5.97 1.3 3 1 1 0 0 0 1 1
1 520 580 4 5 4.50 0.1 2 1 1 5 0 0 1 1
1 520 584 6 4 5.07 0.6 3 2 2 0 0 0 1 1
1 520 596 3 5 4.41 0.4 3 1 1 0 0 0 1 1
1 528 496 7 5 3.70 0.1 3 1 1 0 0 0 1 1
1 528 496 4 4 4.14 0.6 3 1 1 0 0 0 1 1
1 528 500 2 2 6.41 1.4 3 1 1 0 0 0 1 1
1 528 508 7 22 3.51 0.5 2 1 1 0 0 0 1 1
1 528 508 3 22 6.36 1.0 3 1 1 0 0 0 1 1
1 528 508 4 22 5.48 0.3 3 1 1 0 0 0 1 1
1 528 508 4 22 6.38 0.9 3 1 1 0 0 0 1 1
1 528 512 4 99 7.09 2.9 3 1 1 0 0 0 1 1
1 528 512 4 2 4.60 1.0 3 2 2 0 0 0 1 1
1 528 512 4 22 8.82 16.6 3 1 1 0 0 0 1 1
1 528 512 4 4 9.03 8.3 1 1 1 0 0 1 1 1
1 528 516 3 2 7.12 0.7 3 1 1 0 0 0 1 1
1 528 516 3 4 7.30 1.7 3 1 1 0 0 0 1 1
1 528 516 1 2 7.70 5.3 3 1 1 0 0 0 1 1
1 528 520 9 4 5.52 0.6 3 1 1 0 0 0 1 1
1 528 520 6 4 6.95 2.7 3 2 2 0 0 0 1 1
1 528 520 4 55 7.45 7.3 3 1 1 0 0 0 1 1
1 528 520 4 2 5.21 0.6 3 1 1 0 0 0 1 1
1 528 520 4 2 4.30 0.2 3 1 1 0 0 0 1 1
1 528 524 3 2 5.66 1.2 3 1 1 0 0 0 1 1
1 528 524 6 5 4.15 0.5 3 1 1 0 0 0 1 1
1 528 524 4 2 7.25 4.4 3 1 1 0 0 0 1 1
1 528 524 4 22 6.69 0.7 3 1 1 0 0 0 1 1
1 528 524 4 2 6.33 1.9 3 1 1 0 0 0 1 1
1 528 528 3 2 7.52 2.4 3 1 1 0 0 0 1 1
1 528 528 4 22 5.71 0.3 3 1 1 0 0 0 1 1
1 528 528 4 5 4.24 0.4 3 1 1 0 0 0 1 1
1 528 532 3 22 9.44 1.9 3 1 1 0 0 0 1 1
1 528 536 11 4 0.00 5.1 4 1 1 0 0 0 1 1
1 528 536 1 66 4.60 0.6 3 1 1 0 0 0 1 1
1 528 536 6 4 4.37 0.6 3 1 1 0 0 0 1 1
1 528 536 4 4 5.73 0.8 3 1 1 0 0 0 1 1
1 528 536 4 5 8.05 2.8 3 1 1 0 0 0 1 1
1 528 536 4 1 3.42 0.5 3 2 1 0 0 0 1 1
1 528 536 4 2 5.46 0.2 3 1 1 0 0 0 1 1
1 528 536 2 99 0.00 5.0 5 0 0 0 0 0 1 1
1 528 540 3 5 5.58 1.3 3 1 1 0 0 0 1 1
1 528 544 7 5 6.30 2.7 3 1 1 0 0 0 1 1
1 528 544 3 22 5.52 0.3 3 1 1 0 0 0 1 1
1 528 544 1 4 5.90 0.7 3 1 1 0 0 0 1 1
1 528 544 6 55 6.00 1.3 3 1 1 0 0 0 1 1
1 528 544 6 22 6.17 0.9 1 1 1 0 0 2 1 1
1 528 544 4 55 4.50 0.4 3 1 1 0 0 0 1 1
1 536 480 6 1 4.20 0.3 3 1 1 0 0 0 1 1
1 536 480 4 2 9.91 4.1 3 1 1 0 0 0 1 1
1 536 484 3 2 5.31 1.0 3 1 1 0 0 0 1 1
1 536 500 3 5 6.24 1.7 3 1 1 0 0 0 1 1
1 536 500 4 5 4.94 0.9 3 1 1 0 0 0 1 1
1 536 500 4 1 7.00 1.5 3 1 1 0 0 0 1 1
1 536 504 5 1 7.25 0.4 3 1 1 0 0 0 1 1
1 536 504 3 4 4.31 0.5 3 1 1 0 0 0 1 1
1 536 504 6 22 6.06 2.3 1 1 1 0 0 2 1 1
1 536 508 3 4 5.47 1.6 3 1 1 0 0 0 1 1
1 536 508 3 4 7.98 3.6 3 1 1 0 0 0 1 1
1 536 508 3 2 8.83 2.9 3 1 1 0 0 0 1 1
1 536 512 3 2 8.22 4.6 3 1 1 0 0 0 1 1
1 536 512 3 4 5.78 1.0 3 1 1 0 0 0 1 1
1 536 512 4 5 5.98 1.7 3 1 1 0 0 0 1 1
1 536 512 4 22 5.41 2.9 3 1 1 0 0 0 1 1
1 536 516 11 3 4.66 0.9 3 1 1 0 0 0 1 1
1 536 516 4 2 10.03 4.8 3 1 1 0 0 0 1 1
1 536 520 7 22 5.35 1.0 3 1 1 0 0 0 1 1
1 536 524 5 22 6.55 2.3 1 1 1 0 0 1 1 1
1 536 524 3 4 6.75 1.1 1 1 1 0 0 1 1 1
1 536 524 6 4 6.30 1.4 3 1 1 0 0 0 1 1
1 536 524 4 22 9.18 2.7 3 1 1 0 0 0 1 1
1 536 524 4 1 5.38 0.7 3 1 1 0 0 0 1 1
1 536 532 5 55 6.48 0.5 3 1 1 0 0 0 1 1
1 536 532 3 2 9.12 1.6 3 1 1 0 0 0 1 1
1 536 532 3 2 6.04 0.7 3 1 1 0 0 0 1 1
1 536 532 4 22 6.69 2.1 2 2 2 0 0 0 1 1
1 536 536 3 22 7.23 2.2 3 1 1 0 0 0 1 1
1 536 536 3 55 4.77 0.6 3 1 1 0 0 0 1 1
1 536 536 3 66 6.36 0.8 3 1 1 0 0 0 1 1
1 536 536 1 66 7.35 2.8 3 1 1 0 0 0 1 1
1 536 536 4 22 3.15 0.1 3 1 1 0 0 0 1 1
1 536 540 5 4 5.18 1.0 3 2 2 0 0 0 1 1
1 536 540 5 4 7.69 3.0 3 2 2 0 0 0 1 1
1 536 540 3 4 6.24 0.7 3 1 1 0 0 0 1 1
1 536 540 3 2 6.44 1.3 2 1 1 0 0 0 1 1
1 536 540 4 22 6.46 1.7 3 1 1 0 0 0 1 1
1 536 540 4 5 5.71 0.5 3 1 1 0 0 0 1 1
1 536 544 3 6 6.13 1.1 3 1 1 0 0 0 1 1
1 536 544 3 22 7.61 2.2 3 1 1 0 0 0 1 1
1 536 544 4 2 5.22 1.0 3 1 1 0 0 0 1 1
1 536 544 4 22 9.73 4.0 3 1 1 0 0 0 1 1
1 536 548 7 1 5.10 1.9 3 1 1 0 0 0 1 1
1 536 548 5 4 8.37 2.1 3 1 1 0 0 0 1 1
1 536 548 3 22 5.82 0.9 3 1 1 0 0 0 1 1
1 536 548 3 2 9.29 3.7 3 1 1 0 0 0 1 1
1 536 548 3 2 5.01 0.7 3 1 1 0 0 0 1 1
1 536 548 3 22 8.94 0.6 3 1 1 0 0 0 1 1
1 536 548 3 22 6.47 0.8 3 1 1 0 0 0 1 1
1 536 548 4 4 6.20 1.6 3 1 1 0 0 0 1 1
1 544 496 3 3 5.09 0.7 3 1 1 0 0 0 1 1
1 544 496 4 5 3.64 0.4 3 1 1 0 0 0 1 1
1 544 496 4 1 5.17 0.8 3 1 1 0 0 0 1 1

1 544 496 4 22 4.80 0.4 3 1 1 0 0 0 1 1	1 544 548 3 3 4.73 0.0 3 1 1 0 0 0 1 1
1 544 500 5 4 5.99 3.2 2 2 2 0 1 0 1 1	1 544 548 8 55 4.24 0.8 3 1 1 0 0 0 1 1
1 544 500 5 2 4.77 2.2 3 1 1 0 0 0 1 1	1 544 548 8 1 7.70 1.8 3 1 1 0 0 0 1 1
1 544 500 3 22 7.07 1.2 3 1 1 0 0 0 1 1	1 544 548 8 6 4.73 0.3 1 1 1 0 0 0 1 1
1 544 500 6 5 8.73 1.4 3 1 1 0 0 0 1 1	1 544 548 6 22 7.85 1.9 2 1 1 0 0 0 1 1
1 544 504 3 99 5.58 0.7 3 1 1 0 0 0 1 1	1 544 548 4 55 4.83 0.7 2 1 2 3 0 0 1 1
1 544 504 4 7 5.87 0.8 3 1 1 0 0 0 1 1	1 544 548 4 4 4.71 0.9 3 1 1 0 0 0 1 1
1 544 508 3 2 4.04 1.0 3 1 1 0 0 0 1 1	1 544 548 4 5 4.07 0.5 3 1 1 0 0 0 1 1
1 544 508 1 22 8.04 2.4 3 1 1 0 0 0 1 1	1 544 548 4 5 4.72 0.8 3 1 1 0 0 0 1 1
1 544 508 4 4 5.39 0.8 3 1 1 0 0 0 1 1	1 544 552 4 2 6.75 2.2 3 1 1 0 0 0 1 1
1 544 508 4 2 5.91 0.5 3 1 1 0 0 0 1 1	1 544 552 4 22 6.66 2.1 2 1 1 0 0 0 1 1
1 544 512 4 2 5.38 0.4 3 1 1 0 0 0 1 1	1 544 552 4 2 9.80 1.6 1 1 1 0 0 0 1 1
1 544 512 4 22 5.94 1.2 2 1 1 0 0 0 1 1	1 544 552 4 5 5.40 2.0 2 1 1 0 0 0 1 1
1 544 516 6 68 5.24 0.3 1 1 1 0 1 1 1 1	1 544 556 5 4 8.68 1.3 3 1 1 0 0 0 1 1
1 544 516 4 55 4.47 0.4 3 1 1 0 0 0 1 1	1 544 556 8 22 6.36 3.3 1 1 1 0 0 1 1 1
1 544 516 4 2 4.28 0.9 3 1 1 0 0 0 1 1	1 544 556 6 55 6.76 3.4 3 1 1 0 0 0 1 1
1 544 520 8 22 4.06 0.4 3 1 1 0 0 0 1 1	1 544 556 4 2 7.44 1.1 3 1 1 0 0 0 1 1
1 544 520 4 2 3.47 0.8 3 1 1 0 0 0 1 1	1 544 556 4 3 5.47 1.0 3 1 1 0 0 0 1 1
1 544 520 4 99 7.06 0.6 3 1 1 0 0 0 1 1	1 544 556 4 5 5.16 0.3 3 1 1 0 0 0 1 1
1 544 520 4 55 5.54 1.8 2 1 1 0 0 0 2 1	1 544 556 4 99 6.75 1.7 3 1 1 0 0 0 1 1
1 544 520 4 55 5.82 1.3 2 1 1 0 0 0 1 1	1 544 556 4 5 8.43 3.0 3 1 1 0 0 0 1 1
1 544 524 6 4 7.51 4.4 3 1 1 0 0 0 1 1	1 544 556 4 1 5.62 0.5 3 1 1 0 0 0 1 1
1 544 524 6 2 8.38 3.6 2 1 1 0 0 0 1 1	1 544 556 2 4 3.13 0.3 3 1 1 0 0 0 1 1
1 544 524 4 5 6.50 1.2 3 1 1 0 0 0 1 1	1 544 560 8 5 5.15 0.9 3 1 1 0 0 0 1 1
1 544 524 4 2 5.67 1.2 3 1 1 0 0 0 1 1	1 544 560 6 55 5.94 0.7 3 1 1 0 0 0 1 1
1 544 524 4 2 6.05 0.4 3 1 1 0 0 0 1 1	1 544 560 4 5 5.86 0.4 3 1 1 0 0 0 1 1
1 544 524 2 2 9.23 1.3 3 1 1 0 0 0 1 1	1 544 560 4 1 4.88 0.7 3 1 1 0 0 0 1 1
1 544 528 5 22 3.85 0.5 3 1 1 0 0 0 1 1	1 544 560 4 22 5.56 1.3 3 1 1 0 0 0 1 1
1 544 528 8 2 5.93 1.4 3 1 1 0 0 0 1 1	1 544 560 2 6 5.79 1.7 3 1 1 0 0 0 1 1
1 544 528 8 5 2.55 0.0 3 1 1 0 0 0 1 1	1 544 564 10 99 9.72 1.1 3 1 1 0 0 0 1 1
1 544 528 6 6 5.63 0.8 3 1 1 0 0 0 1 1	1 544 564 5 99 5.15 1.3 3 1 1 0 0 0 1 1
1 544 528 6 4 7.33 0.8 2 1 1 0 0 0 1 1	1 544 564 6 55 4.93 1.4 3 1 1 0 0 0 2 1
1 544 528 6 4 7.89 0.8 3 1 1 0 0 0 1 1	1 544 564 4 22 6.19 1.0 3 1 1 0 0 0 1 1
1 544 528 4 5 6.29 0.8 3 1 1 0 0 0 1 1	1 544 564 2 4 5.37 1.1 3 1 1 0 0 0 1 1
1 544 528 4 2 5.64 0.6 3 1 1 0 0 0 1 1	1 544 564 4 2 8.13 4.0 2 1 1 0 0 0 1 1
1 544 528 4 2 2.89 0.1 3 1 1 0 0 0 1 1	1 544 576 3 5 6.68 1.1 2 1 1 0 0 0 1 1
1 544 528 4 5 4.09 0.3 3 1 1 0 0 0 1 1	1 544 576 8 1 3.86 0.4 3 1 1 0 0 0 1 1
1 544 528 4 68 5.59 1.7 3 1 1 0 0 0 1 1	1 544 576 4 5 4.21 0.2 3 1 1 0 0 0 1 1
1 544 528 4 2 7.41 0.6 3 1 1 0 0 0 1 1	1 544 580 4 2 5.45 0.4 3 1 1 0 0 0 1 1
1 544 528 2 55 4.05 0.6 3 1 1 0 0 0 1 1	1 544 588 4 2 7.77 0.7 3 1 1 0 0 0 1 1
1 544 532 6 4 0.00 0.3 1 1 1 0 0 0 1 1 1	1 544 588 2 99 8.65 3.5 3 1 1 0 0 0 1 1
1 544 532 6 2 7.38 1.0 1 2 2 0 0 1 1 1 1	1 544 592 4 5 4.97 0.8 3 1 1 0 0 0 1 1
1 544 532 4 1 6.20 0.6 3 1 1 0 0 0 1 1	1 544 612 4 22 4.56 0.5 3 1 1 0 0 0 1 1
1 544 532 4 5 5.15 0.5 3 1 1 0 0 0 1 1	1 552 480 3 2 0.00 0.5 3 1 1 0 0 0 1 1
1 544 532 4 2 8.79 5.8 2 1 1 0 0 0 1 1	1 552 488 3 5 7.43 3.5 2 1 1 0 0 0 1 1
1 544 532 2 4 4.16 0.4 3 1 1 0 0 0 1 1	1 552 488 4 5 4.55 0.2 3 1 1 0 0 0 1 1
1 544 536 7 4 3.57 0.7 3 1 1 0 0 0 1 1	1 552 492 3 22 6.97 2.3 3 1 1 0 0 0 1 1
1 544 536 6 6 4.89 0.3 3 1 1 0 0 0 1 1	1 552 496 6 4 4.67 0.6 3 1 1 0 0 0 1 1
1 544 536 6 2 4.96 0.6 3 1 1 0 0 0 1 1	1 552 496 4 4 5.54 0.6 3 1 2 0 0 0 1 1
1 544 536 4 2 4.91 0.3 3 1 1 0 0 0 1 1	1 552 500 6 22 6.52 6.3 3 1 1 0 0 0 1 1
1 544 536 4 2 3.75 0.4 3 1 1 0 0 0 1 1	1 552 500 4 1 5.58 0.3 3 1 1 0 0 0 1 1
1 544 536 4 5 4.38 1.1 3 1 1 0 0 0 1 1	1 552 500 4 2 8.64 1.4 3 1 1 0 0 0 1 1
1 544 540 3 4 7.99 2.0 3 1 1 0 0 0 1 1	1 552 504 5 5 6.80 0.9 3 1 1 0 0 0 1 1
1 544 540 8 55 7.19 0.8 1 1 1 0 0 0 1 1 1	1 552 504 6 55 5.31 0.5 3 1 1 0 0 0 1 1
1 544 540 6 4 6.26 0.4 3 1 1 0 0 0 1 1	1 552 504 4 1 5.16 0.4 3 1 1 0 0 0 1 1
1 544 540 4 2 7.48 1.6 3 1 1 0 0 0 1 1	1 552 504 4 4 4.06 0.4 3 1 1 0 0 0 1 1
1 544 540 4 2 5.68 0.2 3 1 1 0 0 0 1 1	1 552 504 4 5 7.11 1.6 3 1 1 0 0 0 1 1
1 544 540 4 2 6.99 0.9 3 1 1 0 0 0 1 1	1 552 504 4 2 6.20 0.8 3 1 1 0 0 0 1 1
1 544 540 4 6 11.32 4.6 3 1 1 0 0 0 1 1	1 552 504 4 6 4.22 0.9 3 1 1 0 0 0 1 1
1 544 540 2 5 5.97 0.5 3 1 1 0 0 0 1 1	1 552 508 7 22 6.70 0.9 3 1 1 0 0 0 1 1
1 544 544 5 4 6.87 1.4 3 1 1 0 0 0 1 1	1 552 508 3 8 7.11 1.2 3 1 1 0 0 0 1 1
1 544 544 8 3 5.69 0.4 3 1 1 0 0 0 1 1	1 552 508 3 2 7.43 2.9 3 1 1 0 0 0 1 1
1 544 544 6 22 5.19 0.4 2 1 1 0 0 0 3 1	1 552 508 6 4 7.55 0.6 3 1 1 0 0 0 1 1
1 544 544 6 55 6.23 0.9 3 1 1 0 0 0 1 1	1 552 508 6 4 4.38 0.8 3 1 1 0 0 0 1 1
1 544 544 4 2 7.97 3.4 3 1 2 0 0 0 1 1	1 552 508 6 4 0.00 3.5 5 1 1 0 0 0 5 1
1 544 544 4 5 4.07 0.3 3 1 1 0 0 0 1 1	1 552 508 6 5 3.92 0.3 3 1 1 0 0 0 1 1
1 544 544 4 22 6.38 0.6 3 1 1 0 0 0 1 1	1 552 508 4 2 4.51 0.3 3 1 1 0 0 0 1 1
1 544 544 4 55 5.57 0.5 3 1 1 0 0 0 1 1	1 552 508 4 55 6.47 6.9 3 1 1 0 0 0 1 1
1 544 544 4 3 5.09 0.6 3 1 1 0 0 0 1 1	1 552 508 4 22 7.31 1.7 2 1 1 0 0 0 3 1
1 544 544 2 22 7.73 5.1 3 1 1 0 0 0 1 1	1 552 508 4 3 7.50 1.6 2 1 1 0 0 0 1 1

1 552 512 3 4 10.23 8.5 3 1 1 0 0 0 1 1
1 552 512 3 8 7.82 4.1 2 1 1 0 0 0 1 1
1 552 512 3 4 6.84 1.4 3 1 1 0 0 0 1 1
1 552 512 8 4 4.82 0.7 3 1 1 0 0 0 1 1
1 552 512 6 22 6.67 0.5 3 1 1 0 0 0 1 1 castellation
1 552 512 6 22 5.80 1.9 1 2 2 1 0 1 1 1
1 552 512 4 4 7.29 0.5 3 1 1 0 0 0 1 1
1 552 512 4 2 5.77 1.2 3 1 1 0 0 0 1 1
1 552 512 4 5 7.11 0.9 3 1 1 0 0 0 1 1
1 552 512 4 22 6.47 2.8 3 1 1 0 0 0 1 1
1 552 512 4 5 5.89 1.0 3 1 1 0 0 0 1 1
1 552 512 4 2 4.93 0.3 3 1 1 0 0 0 1 1
1 552 512 4 4 5.88 1.8 3 1 1 0 0 0 1 1
1 552 512 4 22 5.79 0.9 3 1 1 0 0 0 1 1
1 552 512 4 2 4.74 0.8 2 1 1 0 0 0 1 1
1 552 516 6 1 9.63 4.2 1 2 2 0 0 1 1 1
1 552 516 4 2 8.37 2.0 3 1 1 0 0 0 1 1
1 552 520 7 55 5.35 0.5 3 1 1 0 0 0 1 1
1 552 520 7 55 5.16 1.0 3 1 1 0 0 0 1 1
1 552 520 5 4 3.48 0.5 3 1 1 0 0 0 1 1
1 552 520 3 6 3.58 0.2 3 1 1 0 0 0 1 1
1 552 520 3 2 6.36 1.8 3 1 1 0 0 0 1 1
1 552 520 3 1 8.60 1.1 3 1 1 0 0 0 1 1
1 552 520 4 5 5.49 0.2 3 1 1 0 0 0 1 1
1 552 520 4 5 5.51 1.0 3 1 1 0 0 0 1 1
1 552 524 7 4 6.50 0.9 3 1 1 0 0 0 1 1
1 552 524 7 8 6.94 1.4 3 1 1 0 0 0 1 1
1 552 524 6 55 5.89 1.0 2 1 1 0 0 0 1 1
1 552 524 4 1 8.84 2.0 3 1 1 0 0 0 1 1
1 552 524 4 22 7.04 3.3 3 1 1 0 0 0 1 1
1 552 528 1 1 7.80 2.2 3 1 1 0 0 0 1 1
1 552 532 5 2 6.92 3.0 3 1 1 0 0 0 1 1
1 552 532 3 5 5.30 1.4 3 1 1 0 0 0 1 1
1 552 532 3 66 5.85 5.8 3 1 1 0 0 0 1 1
1 552 532 6 2 7.82 3.3 3 1 1 0 0 0 1 1
1 552 532 6 5 7.99 1.8 3 1 1 0 0 0 1 1
1 552 532 4 5 3.06 0.1 3 1 1 0 0 0 1 1
1 552 536 7 4 1.95 0.1 3 1 1 0 0 0 1 1
1 552 536 3 1 6.38 0.5 3 1 1 0 0 0 1 1
1 552 540 8 4 5.07 1.7 3 2 2 0 0 0 1 1
1 552 540 6 3 4.73 0.4 3 1 1 0 0 0 1 1
1 552 540 6 7 4.73 0.4 3 1 1 0 0 0 1 1
1 552 544 5 4 6.11 0.9 3 1 1 0 0 0 1 1
1 552 544 3 2 7.67 1.1 3 1 1 0 0 0 1 1
1 552 544 3 22 7.75 4.5 3 1 1 0 0 0 1 1
1 552 544 3 5 0.00 11.7 4 1 1 0 0 0 1 1
1 552 544 4 5 4.09 0.3 3 1 1 0 0 0 1 1
1 552 544 2 22 8.75 3.2 3 1 1 0 0 0 1 1
1 552 548 5 22 5.44 2.0 1 1 1 0 0 1 1 1
1 552 548 3 22 6.54 5.1 3 1 1 0 0 0 1 1
1 552 548 3 2 8.71 3.5 3 1 1 0 0 0 1 1
1 552 548 8 22 4.11 0.8 3 1 1 0 0 0 1 1
1 552 548 4 55 4.87 0.8 3 1 1 0 0 0 1 1
1 552 548 4 22 6.57 1.9 3 1 1 0 0 0 1 1
1 552 548 4 6 7.01 1.9 2 1 1 0 0 0 1 1
1 552 548 2 55 6.88 2.4 3 1 1 0 0 0 1 1
1 560 480 6 4 4.98 0.6 3 1 1 0 0 0 1 1
1 560 484 7 22 4.23 1.2 3 2 2 0 0 0 1 1
1 560 488 4 5 4.71 0.7 3 1 1 0 0 0 1 1
1 560 492 3 4 6.47 1.4 3 1 1 0 0 0 1 1
1 560 492 3 22 0.00 0.7 5 1 1 0 0 0 1 1
1 560 500 7 4 6.95 3.1 3 1 1 0 0 0 1 1
1 560 500 3 5 7.02 2.0 3 1 1 0 0 0 1 1
1 560 500 4 2 6.10 1.0 3 1 1 0 0 0 1 1
1 560 504 3 22 5.72 2.8 3 1 1 0 0 0 1 1
1 560 504 4 2 8.40 3.0 3 1 1 0 0 0 1 1
1 560 508 7 4 6.34 0.7 3 1 1 0 0 0 1 1
1 560 508 3 2 7.90 3.4 3 2 2 0 0 0 1 1
1 560 508 3 5 9.37 6.0 3 1 1 0 0 0 1 1
1 560 512 5 55 7.17 3.3 1 2 2 0 0 1 1 1

1 560 512 4 1 4.72 1.9 3 1 1 0 0 0 1 1
1 560 512 4 4 5.82 1.1 3 1 1 0 0 0 1 1
1 560 516 7 5 7.85 4.2 3 1 1 0 0 0 1 1
1 560 516 3 22 0.00 0.8 5 1 1 0 0 0 1 1
1 560 516 6 4 6.67 1.2 1 1 1 0 0 2 1 1
1 560 516 6 4 5.33 1.7 3 2 2 0 0 0 1 1
1 560 516 4 5 4.45 0.4 3 1 1 0 0 0 1 1
1 560 516 4 2 5.99 2.3 3 1 1 0 0 0 1 1
1 560 516 4 6 5.33 0.8 3 1 1 0 0 0 1 1
1 560 516 4 2 5.29 1.1 3 1 1 0 0 0 1 1
1 560 516 4 4 5.08 1.8 3 1 1 0 0 0 1 1
1 560 516 4 2 7.90 2.0 3 1 1 0 0 0 1 1
1 560 516 4 2 6.14 3.0 2 1 1 0 0 0 1 1
1 560 520 3 2 6.00 0.8 3 1 1 0 0 0 1 1
1 560 520 3 4 8.59 2.1 3 1 1 0 0 0 1 1
1 560 520 4 4 5.19 0.7 2 1 1 0 0 0 1 1
1 560 520 4 22 5.78 6.2 3 1 1 0 0 0 1 1
1 560 520 4 2 6.13 1.1 3 1 1 0 0 0 1 1
1 560 520 4 5 5.78 2.4 3 1 1 0 0 0 1 1
1 560 520 4 1 8.37 5.5 2 1 1 0 0 0 1 1
1 560 524 7 22 7.81 1.4 3 1 1 0 0 0 1 1
1 560 524 5 4 4.90 0.2 3 1 1 0 0 0 1 1
1 560 524 5 55 5.96 0.3 3 1 1 0 0 0 1 1
1 560 524 3 1 5.97 1.3 3 1 1 0 0 0 1 1
1 560 524 8 4 5.42 0.3 3 1 1 0 0 0 1 1
1 560 524 4 4 3.43 0.2 2 1 1 0 0 0 1 1
1 560 528 5 4 7.13 0.8 3 1 1 0 0 0 1 1
1 560 532 11 55 5.48 1.0 3 1 1 0 0 0 1 1
1 560 532 3 5 6.44 3.5 3 1 1 0 0 0 1 1
1 560 532 3 22 6.39 1.8 3 1 1 0 0 0 1 1
1 560 536 5 55 8.01 4.0 2 1 1 0 0 0 1 1
1 560 536 3 22 7.52 0.8 3 1 1 0 0 0 1 1
1 560 536 4 55 6.08 0.8 3 1 1 0 0 0 1 1
1 560 536 4 2 7.96 4.4 3 1 1 0 0 0 1 1
1 560 536 4 4 6.82 0.8 3 1 1 0 0 0 1 1
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 2 0 0 3 3 5.35 0.00 3 1 1 0 0 0 1 1
 2 0 0 3 1 5.39 0.00 3 1 1 0 0 0 1 1
 2 0 0 7 1 7.55 0.00 2 1 1 0 0 0 1 1
 2 0 0 3 2 6.80 0.00 3 1 1 0 0 0 1 1
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 2 0 0 4 55 6.93 0.00 3 1 1 0 0 0 1 1
 2 0 0 3 8 6.25 0.00 3 1 1 0 0 0 1 1
 2 0 0 7 1 3.05 0.00 3 1 1 0 0 0 1 1
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 2 0 0 3 2 5.27 0.00 3 1 1 0 0 0 1 1
 2 0 0 4 4 5.97 0.00 3 1 2 0 0 0 1 1
 2 0 0 3 22 8.31 0.00 1 1 0 0 0 1 1
 2 0 0 7 55 4.44 0.00 3 1 1 0 0 0 1 1
 2 0 0 7 5 5.93 0.00 1 1 1 0 0 0 1 1
 2 0 0 3 22 8.35 0.00 3 1 1 0 0 0 1 1
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 2 0 0 3 8 7.80 0.00 3 1 1 0 0 0 1 1
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 2 0 0 3 1 6.60 0.00 3 1 1 0 0 0 1 1
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3 100 0 4 5 5.66 0.95 3 1 1 0 0 0 1 1
3 100 0 8 55 5.92 0.99 3 1 1 0 0 0 1 1
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3 144 0 3 1 4.90 0.65 3 1 1 0 0 0 1 1
3 152 0 4 1 4.56 0.31 3 1 1 0 0 0 1 1
3 172 0 4 55 4.04 0.58 3 1 1 0 0 0 1 1
3 172 0 3 22 5.63 1.42 3 1 1 0 0 0 1 1
3 176 0 3 22 5.74 0.52 3 1 1 0 0 0 1 1
3 176 0 3 2 8.26 0.86 3 1 1 0 0 0 1 1
3 180 0 3 5 6.09 1.19 3 1 1 0 0 0 1 1
3 180 0 4 2 6.27 1.32 3 1 1 0 0 0 1 1
3 184 0 4 55 6.39 0.70 2 1 1 0 0 0 1 1
3 188 0 3 22 7.08 5.55 2 1 1 0 0 0 1 1
3 188 0 3 8 4.42 1.64 3 1 1 0 0 0 1 1
3 188 0 3 2 9.33 2.32 2 1 1 0 0 0 1 1
3 188 0 4 2 4.39 0.37 3 1 1 0 0 0 1 1
3 192 0 4 22 5.25 0.64 3 2 2 0 1 0 1 1
3 192 0 4 1 4.43 0.38 3 1 1 0 0 0 1 1
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3 196 0 4 2 5.69 0.64 1 1 1 0 0 0 1 1
3 196 0 3 22 4.60 1.14 3 1 1 0 0 0 1 1
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3 200 0 5 2 6.93 2.14 3 1 1 0 0 0 1 1
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3 204 0 4 5 5.05 0.47 3 1 1 0 0 0 1 1
3 204 0 4 55 4.09 0.45 3 2 2 0 0 0 1 1
3 208 0 3 4 4.19 0.38 3 1 1 0 0 0 1 1
3 208 0 3 2 5.25 1.17 3 1 1 0 0 0 1 1
3 208 0 4 2 4.12 0.54 3 1 1 0 0 0 1 1
3 212 0 3 2 3.85 0.84 3 1 1 0 0 0 1 1
3 216 0 3 2 7.27 3.61 2 2 2 0 0 0 1 1
3 216 0 3 1 5.60 0.96 3 1 1 0 0 0 1 1
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3 220 0 4 5 3.74 0.33 3 1 1 0 0 0 1 1
3 220 0 3 68 4.72 0.67 3 1 1 0 0 0 1 1
3 224 0 3 55 7.63 3.27 2 1 1 0 0 0 1 1
3 228 0 3 1 4.90 0.54 3 1 1 0 0 0 1 1
3 228 0 3 55 4.63 0.68 3 1 1 0 0 0 1 1
3 232 0 4 2 6.87 0.69 3 1 1 0 0 0 1 1
3 232 0 4 3 5.60 0.35 3 1 1 0 0 0 1 1
3 248 0 4 22 6.93 0.94 3 1 1 0 0 0 1 1

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4 240 180 4 0 0.00 0.57 3 1 1 0 0 0 1 1	4 240 192 4 6 0.00 1.78 3 1 1 0 1 0 1 1
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4 240 184 8 5 0.00 4.42 3 1 1 0 0 0 1 1	4 240 192 4 1 0.00 2.40 2 1 1 0 0 0 1 1
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4 240 184 4 2 0.00 0.93 3 1 1 0 0 0 1 1	4 240 192 4 5 0.00 1.94 2 1 1 0 1 0 1 1
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4 240 184 4 4 0.00 1.48 2 1 1 0 0 0 1 1	4 240 198 18 5 0.00 3.47 3 1 1 0 0 0 1 1
4 240 184 2 2 0.00 2.69 2 1 1 0 0 0 1 1	4 240 198 10 1 0.00 0.52 2 1 1 0 0 0 1 1
4 240 184 7 2 0.00 3.34 2 1 1 0 0 0 1 1	4 240 198 3 5 0.00 3.81 2 1 1 0 0 0 1 1
4 240 184 8 22 0.00 0.70 2 1 1 0 0 0 1 1	4 240 198 3 22 0.00 1.52 3 1 1 0 0 0 1 1
4 240 184 6 2 0.00 0.52 2 2 2 0 0 0 1 1	4 240 198 3 1 0.00 0.65 3 1 1 0 1 0 1 1
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4 240 184 4 2 0.00 0.42 3 1 1 0 1 0 1 1	4 240 198 4 2 0.00 2.50 2 1 1 0 0 0 1 1
4 240 184 8 5 0.00 0.20 2 1 1 0 0 0 1 1	4 240 198 4 22 0.00 3.42 3 1 1 0 0 0 1 1
4 240 184 4 7 0.00 1.59 3 1 1 0 1 0 1 1	4 240 198 4 3 0.00 2.29 3 1 1 0 0 0 1 1
4 240 184 4 7 0.00 1.13 3 1 1 0 1 0 1 1	4 240 198 4 2 0.00 2.47 3 1 1 0 0 0 1 1
4 240 184 3 4 0.00 0.85 3 1 1 0 1 0 1 1	4 240 198 4 2 0.00 4.66 2 1 1 0 0 0 1 1
4 240 184 4 2 0.00 0.49 3 1 1 0 0 0 1 1	4 240 198 4 2 0.00 3.77 3 1 1 0 0 0 1 1
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4 240 188 1 0 0.00 0.00 3 1 1 0 0 0 1 1	4 240 198 4 5 0.00 4.01 3 1 1 1 0 0 1 1
4 240 188 4 0 0.00 0.93 3 1 1 0 0 0 1 1	4 240 198 4 1 0.00 3.65 2 1 1 0 1 0 1 1
4 240 188 4 2 0.00 0.36 3 1 1 0 0 0 1 1	4 240 198 3 22 0.00 1.38 3 1 1 0 0 0 1 1
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4 240 188 4 1 0.00 0.58 2 1 1 0 0 0 1 1	4 240 198 4 22 0.00 0.92 3 1 1 0 0 0 1 1
4 240 188 4 4 0.00 1.34 3 1 1 0 0 0 1 1	4 240 198 4 2 0.00 1.78 3 2 1 0 1 0 1 1
4 240 188 4 2 0.00 1.69 2 1 1 0 0 0 1 1	4 240 198 3 5 0.00 0.49 3 1 1 0 0 0 1 1
4 240 188 3 2 0.00 2.21 3 1 1 0 0 0 1 1	4 240 198 4 1 0.00 1.94 3 1 1 0 0 0 1 1
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4 240 192 3 2 0.00 2.29 3 1 1 0 0 0 1 1	4 240 198 2 1 0.00 6.15 2 1 1 0 0 0 1 1
4 240 192 3 2 0.00 4.59 2 1 1 0 0 0 1 1	4 240 198 4 1 0.00 0.66 2 1 1 0 1 0 1 1
4 240 192 4 1 0.00 3.73 1 1 1 0 1 1 1 1	4 240 198 4 2 0.00 1.13 3 1 1 0 0 0 1 1
4 240 192 3 5 0.00 4.92 3 2 2 0 0 0 1 1	4 240 198 8 5 0.00 1.94 3 2 2 1 0 0 1 1
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4 240 192 4 5 0.00 6.57 3 1 1 0 1 0 1 1	4 240 200 4 4 0.00 0.28 3 1 1 0 1 0 1 1
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4 240 192 3 55 0.00 2.31 3 1 1 0 0 0 1 1	4 240 200 4 1 0.00 0.41 3 1 1 0 0 0 1 1
4 240 192 2 5 0.00 0.47 3 1 1 0 0 0 1 1	4 240 200 4 6 0.00 0.62 3 1 1 0 1 0 1 1
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4 244 168 4 7 0.00 2.74 3 1 1 0 0 0 1 1
4 244 168 2 1 0.00 0.65 3 1 1 0 0 0 1 1
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4	244	192	4	2	0.00	0.24	2	1	1	0	0	0	1	1
4	244	192	4	2	0.00	0.30	1	1	1	0	0	1	1	1
4	244	192	3	7	0.00	0.31	3	1	1	0	1	0	1	1
4	244	192	2	2	0.00	0.83	3	1	1	0	0	0	1	1
4	244	192	4	2	0.00	0.65	3	1	1	0	0	0	1	1
4	244	192	4	2	0.00	0.59	2	1	1	0	1	0	1	1
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4	244	192	4	5	0.00	0.60	3	1	1	0	0	0	1	1
4	244	192	4	1	0.00	0.57	3	1	1	0	0	0	1	1
4	244	192	3	1	0.00	1.31	3	1	1	0	0	0	1	1
4	244	192	4	1	0.00	0.90	3	2	2	0	0	0	1	1
4	244	192	4	6	0.00	0.81	3	1	1	0	1	0	1	1
4	244	192	4	55	0.00	1.02	3	1	1	0	0	0	1	1
4	244	192	3	4	0.00	0.81	3	1	1	0	0	0	1	1
4	244	192	4	4	0.00	0.87	2	2	2	0	0	0	1	1
4	244	192	3	1	0.00	0.47	3	1	1	0	0	0	1	1
4	244	192	4	7	0.00	0.98	3	1	2	0	0	0	1	1
4	244	192	4	1	0.00	1.17	2	1	1	0	0	0	1	1
4	244	192	4	5	0.00	1.05	3	1	1	0	0	0	1	1
4	244	192	4	1	0.00	1.86	3	1	1	0	1	0	1	1
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4	244	192	3	5	0.00	2.22	3	1	1	0	0	0	1	1
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4	244	192	4	1	0.00	1.61	3	1	1	0	0	0	1	1
4	244	192	4	1	0.00	1.91	2	1	1	3	3	0	1	1
4	244	192	3	1	0.00	1.94	3	1	1	0	0	0	1	1
4	244	192	4	3	0.00	1.93	3	1	1	0	0	0	1	1
4	244	192	4	4	0.00	2.03	3	1	1	0	0	0	1	1
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4	244	192	4	5	0.00	2.53	3	1	1	0	1	0	1	1
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4	244	192	4	2	0.00	3.33	2	1	1	0	0	0	1	1
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4	244	192	3	6	0.00	5.51	3	4	1	0	0	0	1	1
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4	244	192	16	1	0.00	0.98	3	4	1	0	0	0	1	1
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4	244	196	4	2	0.00	1.09	3	1	1	0	0	0	1	1
4	244	196	2	5	0.00	0.55	3	1	1	0	0	0	1	1
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4	244	196	3	2	0.00	0.46	3	1	1	0	0	0	1	1
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4	244	196	4	1	0.00	3.27	3	2	1	0	0	0	1	1
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4	244	196	4	5	0.00	6.61	3	1	1	0	0	0	1	1
4	244	196	3	1	0.00	6.13	3	2	1	0	0	0	1	1
4	244	196	4	2	0.00	5.32	3	1	1	0	0	0	1	1
4	244	196	4	7	0.00	1.57	3	1	1	0	1	0	1	1
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4	244	196	4	2	0.00	1.72	3	1	1	0	0	0	1	1
4	244	196	4	1	0.00	2.96	3	1	1	0	0	0	1	1
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4	244	196	4	4	0.00	3.65	3	1	1	1	0	0	1	1
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4	244	200	4	1	0.00	3.20	3	1	2	0	0	0	1	1
4	2													

4 244 200 4 1 0.00 1.57 3 1 1 1 1 0 1 1	4 248 176 4 0 0.00 1.01 3 1 1 0 0 0 1 1
4 244 200 4 4 0.00 0.85 3 1 1 1 1 0 1 1	4 248 176 4 0 0.00 1.53 3 1 1 0 0 0 1 1
4 244 200 4 5 0.00 0.82 3 1 1 0 1 0 1 1	4 248 176 4 0 0.00 0.70 3 1 1 0 0 0 1 1
4 244 200 4 1 0.00 3.85 3 1 1 0 1 0 1 1	4 248 176 4 0 0.00 1.25 3 1 1 0 0 0 1 1
4 244 200 4 5 0.00 2.03 3 1 1 0 1 0 1 1	4 248 176 4 0 0.00 1.07 3 1 1 0 1 0 1 1
4 244 200 4 5 0.00 3.47 3 1 1 0 1 0 1 1	4 248 176 4 0 0.00 0.75 1 1 1 0 0 1 1 1
4 244 200 4 3 0.00 0.41 3 1 1 0 1 0 1 1	4 248 176 3 0 0.00 2.28 3 1 1 0 0 0 1 1
4 244 200 4 2 0.00 1.32 3 1 1 1 0 0 1 1	4 248 176 3 0 0.00 0.62 3 1 1 0 0 0 1 1
4 244 200 3 7 0.00 4.01 3 1 1 0 1 0 1 1	4 248 176 3 0 0.00 1.23 3 1 1 0 0 0 1 1
4 244 200 3 2 0.00 1.02 3 1 1 0 0 0 1 1	4 248 176 4 2 0.00 0.40 3 2 2 5 0 0 1 1
4 244 200 3 2 0.00 4.06 3 1 1 0 0 0 1 1	4 248 184 4 0 0.00 0.59 3 1 1 0 1 0 1 1
4 244 200 3 1 0.00 2.03 3 1 1 0 0 0 1 1	4 248 184 4 0 0.00 1.57 3 1 1 0 1 0 1 1
4 244 200 3 3 0.00 0.53 3 1 1 0 0 0 1 1	4 248 184 4 0 0.00 0.74 3 1 1 0 1 0 1 1
4 244 200 6 4 0.00 4.44 3 1 1 0 0 0 1 1	4 248 184 4 0 0.00 1.29 3 1 1 1 0 0 1 1
4 244 200 4 2 0.00 0.22 3 1 1 0 0 0 1 1	4 248 184 4 0 0.00 0.79 3 1 1 0 0 0 1 1
4 244 200 4 1 0.00 0.26 3 1 1 0 0 0 1 1	4 248 184 4 0 0.00 2.12 3 1 1 0 0 0 1 1
4 244 200 4 1 0.00 0.34 3 1 1 0 0 0 1 1	4 248 184 4 0 0.00 0.64 3 1 1 0 0 0 1 1
4 244 200 4 5 0.00 1.42 3 1 1 0 0 0 1 1	4 248 184 4 0 0.00 1.44 3 1 1 0 0 0 1 1
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4 244 200 4 4 0.00 1.70 3 1 1 0 0 0 1 1	4 248 184 4 0 0.00 3.05 3 1 1 0 0 0 1 1
4 244 200 4 1 0.00 1.10 3 1 1 0 0 0 1 1	4 248 184 4 0 0.00 2.84 3 1 1 0 0 0 1 1
4 244 200 4 5 0.00 1.53 3 1 1 0 0 0 1 1	4 248 184 4 0 0.00 0.93 3 1 1 0 0 0 1 1
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4 244 200 4 1 0.00 3.10 3 1 1 0 0 0 1 1	4 248 184 3 0 0.00 4.59 3 1 1 0 0 0 1 1
4 244 200 4 5 0.00 1.82 3 1 1 0 0 0 1 1	4 248 184 3 0 0.00 3.13 2 1 1 0 0 0 1 1
4 244 200 4 2 0.00 1.60 3 1 1 0 0 0 1 1	4 248 184 3 0 0.00 0.54 3 1 1 0 0 0 1 1
4 244 200 4 2 0.00 1.30 3 1 1 0 0 0 1 1	4 248 184 3 0 0.00 1.02 3 1 1 0 1 0 1 1
4 244 200 4 2 0.00 0.24 3 1 1 0 0 0 1 1	4 248 184 3 0 0.00 0.94 3 1 1 0 1 0 1 1
4 244 200 4 2 0.00 0.20 3 1 1 0 0 0 1 1	4 248 184 4 2 0.00 1.70 3 1 1 0 1 0 1 1
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4 244 200 4 2 0.00 1.20 3 1 1 0 0 0 1 1	4 248 184 4 22 0.00 1.62 3 2 2 0 1 0 1 1
4 244 200 4 1 0.00 0.60 3 1 1 0 0 0 1 1	4 248 184 4 5 0.00 0.87 3 1 1 0 0 0 1 1
4 244 200 4 1 0.00 1.05 3 1 1 0 0 0 1 1	4 248 184 4 2 0.00 1.18 3 1 1 0 0 0 1 1
4 244 200 4 5 0.00 1.46 3 1 1 0 0 0 1 1	4 248 192 4 0 0.00 0.27 3 1 1 0 0 0 1 1
4 244 200 4 2 0.00 1.60 3 1 1 0 0 0 1 1	4 248 192 4 0 0.00 0.56 3 1 1 0 0 0 1 1
4 244 200 4 3 0.00 1.24 3 1 1 0 0 0 1 1	4 248 192 4 0 0.00 0.46 3 1 1 0 0 0 1 1
4 244 200 4 2 0.00 0.47 3 2 2 0 3 0 1 1	4 248 192 4 0 0.00 0.27 3 1 1 0 0 0 1 1
4 244 200 4 55 0.00 1.69 3 2 2 0 3 0 1 1	4 248 192 4 0 0.00 0.29 3 1 1 0 0 0 1 1
4 244 200 4 1 0.00 1.31 3 1 1 0 1 0 1 1	4 248 192 4 0 0.00 0.49 3 1 1 0 0 0 1 1
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4 244 200 4 3 0.00 1.06 3 1 2 0 0 0 1 1	4 248 192 4 0 0.00 1.37 3 1 1 0 0 0 1 1
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4 248 168 4 0 0.00 0.22 2 1 1 0 1 0 1 1	4 248 192 4 0 0.00 0.73 3 1 1 0 0 0 1 1
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4 248 168 3 0 0.00 1.29 3 1 1 0 0 0 1 1	4 248 192 4 0 0.00 1.32 3 1 1 0 0 0 1 1
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4 248 176 4 0 0.00 0.57 2 1 1 0 0 0 1 1	4 248 192 4 0 0.00 2.58 2 1 1 0 0 0 1 1
4 248 176 3 0 0.00 2.09 2 1 1 0 0 0 1 1	4 248 192 4 0 0.00 1.52 3 1 1 0 0 0 1 1
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4 248 176 4 0 0.00 0.63 3 1 1 0 0 0 1 1	4 248 192 4 0 0.00 2.30 3 1 1 0 0 0 1 1

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4 248 200 4 0 0.00 1.23 3 1 2 0 0 0 1 1
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4 248 200 8 0 0.00 0.79 3 1 1 0 0 0 1 1

4 248 200 4 1 0.00 3.38 3 1 1 0 1 0 1 1
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4 248 200 4 1 0.00 0.51 3 1 1 0 1 0 1 1
4 248 200 8 2 0.00 4.02 3 1 1 0 1 0 1 1
4 248 200 8 2 0.00 1.80 3 1 1 0 1 0 1 1
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4 248 200 8 2 0.00 3.17 3 1 1 0 1 0 1 1
4 248 200 4 1 0.00 0.99 3 1 1 0 1 0 1 1
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4 248 200 7 2 0.00 4.55 3 1 1 1 0 0 1 1
4 248 200 8 2 0.00 2.99 3 1 1 0 1 0 1 1
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4 248 200 4 1 0.00 5.87 2 1 1 0 1 0 1 1
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4 248 200 4 2 0.00 3.59 2 1 1 0 1 0 1 1
4 248 200 4 1 0.00 1.04 2 1 1 0 1 0 1 1
4 248 200 4 1 0.00 1.65 2 1 1 0 1 0 1 1
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4 248 200 4 1 0.00 2.41 2 1 1 0 0 0 1 1
4 248 200 4 2 0.00 3.25 2 1 1 0 0 0 1 1
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4 248 200 3 5 0.00 2.65 3 1 1 0 0 0 1 1
4 248 200 3 1 0.00 2.82 3 1 1 0 0 0 1 1
4 248 200 3 1 0.00 1.00 3 1 1 0 0 0 1 1
4 248 200 3 4 0.00 2.48 3 1 2 0 0 0 1 1

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4	248	200	3	1	0.00	0.62	3	1	1	0	0	0	1	1
4	248	200	3	2	0.00	1.20	3	1	1	0	0	0	1	1
4	248	200	3	1	0.00	0.86	3	1	1	0	0	0	1	1
4	248	200	4	1	0.00	2.26	3	1	1	0	0	0	1	1
4	248	200	7	2	0.00	1.78	3	1	1	0	0	0	1	1
4	248	200	7	2	0.00	1.18	3	1	1	0	0	0	1	1
4	248	200	3	2	0.00	2.40	3	1	1	0	0	0	1	1
4	248	200	4	5	0.00	1.47	3	1	1	0	0	0	1	1
4	248	200	7	3	0.00	1.66	3	1	2	0	0	0	1	1
4	248	200	3	3	0.00	1.21	3	1	1	0	0	0	1	1
4	248	200	4	1	0.00	0.39	2	1	1	0	1	0	1	1
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4	248	200	3	1	0.00	0.64	3	2	2	0	0	0	1	1
4	248	200	7	1	0.00	0.89	2	1	2	0	0	0	1	1
4	248	200	3	5	0.00	0.53	2	1	1	0	0	0	1	1
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4	248	200	4	5	0.00	1.12	2	1	2	0	1	0	1	1
4	248	200	3	2	0.00	0.65	3	1	1	0	0	0	1	1
4	248	200	3	3	0.00	1.06	3	1	1	0	0	0	1	1
4	248	200	2	2	0.00	1.09	3	1	1	0	0	0	1	1
4	248	200	3	5	0.00	1.05	2	1	1	0	0	0	1	1
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4	248	200	3	5	0.00	4.93	3	1	1	0	1	0	1	1
4	248	200	3	1	0.00	13.39	2	2	2	0	0	0	1	1
4	248	200	4	1	0.00	1.73	2	1	1	0	0	0	1	1
4	248	200	4	2	0.00	1.01	2	1	1	0	1	0	1	1
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4	248	200	7	5	0.00	2.50	2	1	1	0	0	0	1	1
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4	248	200	4	1	0.00	1.97	3	1	1	0	1	0	1	1
4	248	200	3	1	0.00	1.23	2	1	1	0	0	0	1	1
4	248	200	8	1	0.00	0.76	3	1	1	0	0	0	1	1
4	248	200	7	6	0.00	2.83	2	2	2	0	0	0	1	1
4	248	200	8	4	0.00	1.34	2	1	1	0	0	0	1	1
4	248	200	4	1	0.00	9.16	1	1	1	0	1	1	1	1
4	248	200	8	4	0.00	4.23	3	2	2	0	0	0	1	1
4	248	200	8	6	0.00	1.54	3	2	1	0	0	0	1	1
4	248	200	3	4	0.00	6.75	3	3	1	0	0	0	1	1
4	248	200	8	6	0.00	2.40	3	2	1	0	1	0	1	1
4	248	200	8	2	0.00	2.46	2	2	1	0	0	0	1	1
4	248	200	4	2	0.00	3.18	1	1	1	0	0	1	1	1
4	248	200	3	2	0.00	10.92	1	1	1	0	1	1	1	1
4	248	200	4	5	0.00	3.06	3	1	1	1	0	0	1	1
4	248	200	4	5	0.00	6.89	3	2	1	0	0	0	1	1
4	248	200	4	1	0.00	1.53	3	1	1	0	3	0	1	1
4	252	180	4	0	0.00	0.71	2	1	1	0	1	0	1	1
4	252	180	4	0	0.00	1.95	2	1	1	0	0	0	1	1
4	252	180	3	1	0.00	0.97	3	1	1	0	0	0	1	1
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4	252	172	5	5	0.00	1.59	2	1	1	0	0	0	1	1
4	252	172	3	3	0.00	2.35	3	1	1	0	0	0	1	1
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4	252	172	5	1	0.00	3.91	2	1	1	0	0	0	1	1
4	252	172	3	3	0.00	0.88	2	1	1	0	0	0	1	1
4	252	172	4	5	0.00	0.25	3	1	1	0	0	0	1	1
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4	252	172	3	7	0.00	4.88	3	1	1	0	0	0	1	1
4	252	172	4	22	0.00	0.86	2	1	1	0	0	0	1	1
4	252	172	3	1	0.00	1.51	3	1	1	0	0	0	1	1
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4	252	180	7	2	0.00	1.79	2	1	1	0	0	0	1	1
4	252	180	3	1	0.00	6.61	3	1	1	0	0	0	1	1
4	252	180	7	5	0.00	0.78	2	1	1	0	0	0	1	1
4	252	180	7	4	0.00	1.34	2	1	1	0	0	0	1	1
4	252	180	7	5	0.00	0.69	3	1	1	0	0	0	1	1
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4	252	180	3	2	0.00	1.97	3	1	1	0	0	0	1	1
4	252	180	7	4	0.00	3.52	2	1	2	0	0	0	1	1
4	252	180	8	4	0.00	1.91	3	1	2	0	0	0	1	1
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4	252	180	3	2	0.00	1.37	3	1	1	0	1	0	1	1
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4	252	180	3	2	0.00	0.91	3	2	2	0	0	0	1	1
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4	252	180	8	2	0.00	0.77	3	1	2	0	0	0	1	1
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4	252	180	4	2	0.00	2.72	2	1	1	0	0	0	1	1
4	252	180	2	1	0.00	0.62	3	1	1	0	0	0	1	1
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4	252	180	4	2	0.00	0.82	1	2	2	0	0	1	1	1
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4	252	180	4	1	0.00	1.17	3	1	1	0	0	0	1	1
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4	252	180	3	3	0.00	1.40	3	1	1	0	0	0	1	1
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4	252	180	3	3	0.00	0.68	3	1	2	0	0	0	1	1
4	252	180	3	1	0.00	1.31	3	1	1	0	0	0	1	1
4	252	180	3	5	0.00	0.56	3	1	2	0	0	0	1	1
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4	252	180	3	1	0.00	5.25	3	1	1	0	0	0	1	1
4	252	180	3	2	0.00	1.45	3	1	1	0	0	0	1	1
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4	252													

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4 256 196 8 5 0.00 2.80 2 1 1 0 1 0 1 1
4 256 196 4 1 0.00 2.60 2 1 1 0 0 0 1 1
4 256 196 3 2 0.00 10.03 1 1 1 0 1 1 1 1
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4 256 180 3 1 0.00 0.59 1 1 1 0 0 1 1 1
4 256 180 3 22 0.00 0.23 3 1 1 0 1 0 1 1
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4 256 180 4 3 0.00 0.39 3 1 1 0 0 0 1 1
4 256 180 3 2 0.00 0.52 3 1 1 0 0 0 1 1
4 256 180 3 2 0.00 0.49 2 1 1 0 0 0 1 1
4 256 180 3 7 0.00 0.75 3 1 1 0 0 0 1 1
4 256 180 7 2 0.00 1.41 3 1 1 0 0 0 1 1
4 256 180 7 22 0.00 1.72 3 1 1 0 0 0 1 1
4 256 180 4 5 0.00 2.88 2 1 1 0 0 0 1 1
4 256 180 4 2 0.00 1.79 1 1 1 0 0 1 1 1
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4 256 176 3 2 0.00 1.09 3 1 1 1 0 0 1 1
4 256 176 4 5 0.00 0.36 3 1 1 0 0 0 1 1
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4 256 176 3 2 0.00 0.87 3 1 1 0 0 0 1 1
4 256 176 4 2 0.00 1.08 2 1 1 1 1 0 1 1
4 256 176 3 6 0.00 0.97 3 1 1 0 0 0 1 1
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4 256 176 3 2 0.00 1.17 2 1 1 0 0 0 1 1
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4 256 184 3 1 0.00 0.73 3 1 1 0 0 0 1 1
4 256 184 4 1 0.00 0.98 3 1 1 0 1 0 1 1

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4	256	184	4	1	0.00	0.64	3	1	1	0	0	0	1	1
4	256	184	4	1	0.00	1.72	3	1	1	0	0	0	1	1
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4	256	184	4	1	0.00	0.54	3	1	1	0	0	0	1	1
4	256	184	4	1	0.00	0.76	2	1	1	1	0	0	1	1
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4	256	184	1	2	0.00	1.27	3	1	1	0	0	0	1	1
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 4 272 192 4 5 0.00 0.63 3 2 2 0 0 0 1 1
 4 272 192 3 2 0.00 0.93 3 1 1 0 0 0 1 1

4 272 192 5 2 0.00 0.78 2 1 1 0 0 0 1 1	4 272 200 4 2 0.00 0.68 2 1 1 0 0 0 1 1
4 272 192 3 2 0.00 0.81 3 1 1 0 0 0 1 1	4 272 200 6 4 0.00 1.10 3 1 1 0 0 0 1 1
4 272 192 4 5 0.00 0.92 3 1 1 0 0 0 1 1	4 272 200 4 1 0.00 1.52 3 1 1 0 0 0 1 1
4 272 192 4 2 0.00 0.91 3 2 1 0 0 0 1 1	4 272 200 7 4 0.00 0.96 3 1 1 0 0 0 1 1
4 272 192 3 5 0.00 1.10 2 1 1 0 0 0 1 1	4 272 200 3 2 0.00 1.29 3 1 1 0 0 0 1 1
4 272 192 3 5 0.00 0.93 3 1 1 0 0 0 1 1	4 272 200 4 2 0.00 1.12 3 1 1 0 1 0 1 1
4 272 192 3 4 0.00 1.00 3 1 1 0 0 0 1 1	4 272 200 3 5 0.00 1.18 3 1 1 0 1 0 1 1
4 272 192 3 5 0.00 1.76 2 1 1 0 0 0 1 1	4 272 200 4 1 0.00 1.14 3 1 1 0 0 0 1 1
4 272 192 7 2 0.00 1.43 2 1 1 0 0 0 1 1	4 272 200 7 2 0.00 1.58 2 2 2 0 0 0 1 1
4 272 192 4 7 0.00 1.41 2 1 1 0 0 0 1 1	4 272 200 3 2 0.00 1.31 2 1 1 0 0 0 1 1
4 272 192 4 2 0.00 1.53 3 1 1 0 1 0 1 1	4 272 200 4 1 0.00 1.67 2 1 1 0 0 0 1 1
4 272 192 3 3 0.00 1.45 3 1 1 0 0 0 1 1	4 272 200 3 5 0.00 1.21 3 1 1 0 0 0 1 1
4 272 192 3 5 0.00 1.22 3 1 1 0 0 0 1 1	4 272 200 4 5 0.00 1.30 3 1 1 0 0 0 1 1
4 272 192 3 4 0.00 1.54 3 1 1 0 0 0 1 1	4 272 200 3 5 0.00 1.03 2 1 1 0 0 0 1 1
4 272 192 4 5 0.66 2.31 3 1 1 0 0 0 1 1	4 272 200 3 3 0.00 1.30 3 1 1 0 0 0 1 1
4 272 192 2 2 0.00 1.58 3 1 1 0 0 0 1 1	4 272 200 3 7 0.00 1.55 3 1 1 0 0 0 1 1
4 272 192 3 5 0.00 2.25 3 1 1 0 0 0 1 1	4 272 200 3 5 0.00 1.12 3 1 1 0 0 0 1 1
4 272 192 3 5 0.99 1.52 3 1 1 0 0 0 1 1	4 272 200 7 4 0.00 0.88 3 1 1 0 0 0 1 1
4 272 192 4 2 0.00 1.04 2 1 1 0 1 0 1 1	4 272 200 3 1 0.00 2.02 3 1 1 0 0 0 1 1
4 272 192 4 2 0.00 1.45 2 1 1 0 1 0 1 1	4 272 200 3 2 0.00 1.21 3 1 1 0 0 0 1 1
4 272 192 3 2 0.00 1.30 3 1 1 0 0 0 1 1	4 272 200 2 55 0.00 2.05 2 1 1 0 0 0 1 1
4 272 192 4 5 0.00 1.96 3 1 1 0 0 0 1 1	4 272 200 4 2 0.00 1.97 3 1 1 0 0 0 1 1
4 272 192 4 7 0.00 1.59 3 1 1 0 0 0 1 1	4 272 200 4 5 0.00 1.89 2 1 1 0 0 0 1 1
4 272 192 4 2 0.00 1.36 3 2 2 0 0 0 1 1	4 272 200 3 4 0.00 1.98 3 1 1 0 0 0 1 1
4 272 192 4 7 0.00 2.71 3 1 1 0 0 0 1 1	4 272 200 3 2 0.00 2.26 3 1 1 0 0 0 1 1
4 272 192 12 1 0.00 3.06 3 1 1 0 0 0 1 1	4 272 200 3 2 0.00 0.00 3 1 1 0 3 0 1 1
4 272 192 3 4 0.00 3.03 3 1 1 0 0 0 1 1	4 272 200 7 7 0.00 1.90 3 1 1 0 0 0 1 1
4 272 192 4 7 0.00 3.97 3 1 1 0 0 0 1 1	4 272 200 4 5 0.00 2.44 2 1 1 0 0 0 1 1
4 272 192 4 4 0.00 2.87 2 1 1 0 0 0 1 1	4 272 200 3 7 0.00 2.32 2 1 1 0 0 0 1 1
4 272 192 8 55 0.00 4.22 3 2 2 0 0 0 1 1	4 272 200 4 55 0.00 1.96 3 2 2 0 0 0 1 1
4 272 192 3 2 0.99 4.87 3 1 1 0 0 0 1 1	4 272 200 3 7 0.00 3.14 3 1 1 0 0 0 1 1
4 272 192 4 5 0.00 6.37 3 1 1 0 0 0 1 1	4 272 200 4 4 0.00 1.38 1 1 1 0 0 0 1 1
4 272 192 5 1 0.00 2.56 3 1 1 0 0 0 1 1	4 272 200 4 7 0.00 1.83 3 1 1 0 0 0 1 1
4 272 192 3 2 0.00 1.07 1 1 1 0 0 0 1 1	4 272 200 4 3 0.00 2.52 2 2 1 0 0 0 1 1
4 272 192 6 4 0.00 0.46 1 1 1 0 0 0 1 1	4 272 200 3 4 0.00 3.15 3 1 2 0 3 0 1 1
4 272 200 4 1 0.00 0.16 3 1 1 0 0 0 1 1	4 272 200 3 2 0.00 3.08 2 1 1 0 0 0 1 1
4 272 200 3 2 0.00 0.21 3 1 1 0 1 0 1 1	4 272 200 4 1 0.00 3.55 2 1 1 0 0 0 1 1
4 272 200 4 4 0.00 0.20 3 2 2 0 0 0 1 1	4 272 200 3 2 0.00 4.13 2 2 2 0 0 0 1 1
4 272 200 3 3 0.00 0.23 3 1 1 0 0 0 1 1	4 272 200 4 2 0.00 5.72 3 1 1 0 0 0 1 1
4 272 200 3 55 0.00 0.30 3 1 1 0 0 0 1 1	4 272 200 12 2 0.00 5.96 2 1 1 0 0 0 1 1
4 272 200 4 1 0.00 0.23 3 2 2 0 0 0 1 1	4 272 200 4 4 0.66 5.25 3 1 2 0 3 0 1 1
4 272 200 4 55 0.00 0.41 2 1 1 0 1 0 1 1	4 272 200 3 2 0.00 12.43 3 4 1 0 1 0 1 1
4 272 200 4 2 0.00 0.36 3 1 1 0 0 0 1 1	4 272 200 4 4 0.00 10.99 3 2 1 1 1 0 1 1
4 272 200 4 1 0.00 0.45 3 1 1 0 0 0 1 1	4 272 200 4 2 0.00 2.40 1 2 2 0 1 1 1 1
4 272 200 4 55 0.00 0.38 3 1 1 0 0 0 1 1	4 272 200 3 5 0.00 2.22 1 1 1 0 0 0 1 1
4 272 200 3 1 0.00 0.39 3 1 1 0 0 0 1 1	4 272 200 4 1 0.00 0.17 3 1 1 0 0 0 1 1
4 272 200 3 2 0.00 0.56 3 1 1 0 0 0 1 1	4 272 200 4 1 0.00 0.23 3 1 1 0 0 0 1 1
4 272 200 4 4 0.00 0.28 3 2 2 0 3 0 1 1	4 272 200 3 5 0.00 0.30 3 1 1 0 0 0 1 1
4 272 200 4 1 0.00 0.55 3 1 1 0 0 0 1 1	4 272 200 3 5 0.00 0.43 3 1 2 0 0 0 1 1
4 272 200 4 2 0.00 0.61 3 1 1 0 0 0 1 1	4 272 200 3 2 0.00 0.34 3 1 2 0 0 0 1 1
4 272 200 3 5 0.00 0.45 3 1 1 0 0 0 1 1	4 272 200 3 5 0.00 0.46 3 1 1 0 3 0 1 1
4 272 200 3 2 0.00 0.74 2 1 1 0 0 0 1 1	4 272 200 3 3 0.00 0.48 3 1 1 0 1 0 1 1
4 272 200 4 2 0.00 0.91 3 1 1 1 0 0 1 1	4 272 200 4 1 0.00 0.49 2 1 1 0 0 0 1 1
4 272 200 4 1 0.00 0.63 3 1 1 0 0 0 1 1	4 272 200 3 7 0.00 0.37 3 1 1 0 0 0 1 1
4 272 200 4 4 0.00 0.59 3 1 1 0 0 0 1 1	4 272 200 3 1 0.00 0.52 2 1 1 0 0 0 1 1
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4 272 200 6 22 0.00 0.76 3 2 2 0 0 0 1 1	4 272 200 4 1 0.00 0.41 2 1 1 0 1 0 1 1
4 272 200 3 6 0.00 0.59 3 1 1 0 0 0 1 1	4 272 200 3 2 0.00 0.52 2 1 1 0 1 0 1 1
4 272 200 4 22 0.00 0.60 2 1 1 0 0 0 1 1	4 272 200 3 5 0.00 0.43 3 1 1 0 0 0 1 1
4 272 200 4 3 0.00 0.79 2 1 2 0 0 0 1 1	4 272 200 3 5 0.00 0.59 3 1 1 0 0 0 1 1
4 272 200 4 22 0.00 0.42 3 1 1 1 0 0 1 1	4 272 200 4 2 0.00 0.65 3 1 1 0 0 0 1 1
4 272 200 4 2 0.00 0.53 3 1 1 0 1 0 1 1	4 272 200 3 2 0.00 0.00 3 1 1 1 0 0 1 1
4 272 200 4 5 0.00 0.99 3 1 1 0 0 0 1 1	4 272 200 3 3 0.00 0.60 3 1 1 0 0 0 1 1
4 272 200 3 7 0.00 0.70 3 1 1 0 0 0 1 1	4 272 200 3 22 0.00 1.34 3 1 1 0 0 0 1 1
4 272 200 3 7 0.00 0.90 3 1 1 0 0 0 1 1	4 272 200 3 2 0.00 0.86 3 1 1 0 0 0 1 1
4 272 200 3 4 0.00 0.76 3 1 1 0 0 0 1 1	4 272 200 3 55 0.00 0.76 3 1 1 0 0 0 1 1
4 272 200 3 4 0.00 0.73 3 1 1 0 0 0 1 1	4 272 200 4 1 0.00 1.30 3 1 2 0 0 0 1 1
4 272 200 4 1 0.00 1.05 2 1 1 0 0 0 1 1	4 272 200 4 5 0.00 0.91 3 1 1 0 0 0 1 1
4 272 200 4 4 0.00 0.80 3 1 1 0 0 0 1 1	4 272 200 4 55 0.00 1.53 3 1 1 0 0 0 1 1
4 272 200 4 1 0.00 0.57 3 1 1 0 0 0 1 1	4 272 200 3 1 0.00 1.35 3 1 1 0 0 0 1 1

4 272 208 3 22 0.00 1.48 3 1 1 1 0 0 1 1	4 272 224 3 5 0.00 5.96 3 1 2 0 0 0 1 1
4 272 208 3 2 0.00 1.08 3 1 1 0 0 0 1 1	4 272 224 4 5 0.00 3.10 3 1 2 0 0 0 1 1
4 272 208 4 3 0.00 1.05 3 1 1 0 0 0 1 1	4 272 224 3 4 0.00 3.28 2 1 1 0 0 0 1 1
4 272 208 4 7 0.00 0.99 3 1 1 1 1 0 1 1	4 272 224 8 2 0.00 0.00 3 1 1 0 0 0 1 1
4 272 208 3 1 0.00 1.31 3 1 1 0 9 0 1 1	4 272 224 4 4 0.00 0.17 1 1 1 0 0 1 1 1
4 272 208 4 5 0.00 1.28 2 1 1 0 0 0 1 1	4 272 224 7 22 0.00 12.39 1 1 1 1 1 1 1 1
4 272 208 3 22 0.00 0.88 3 1 1 3 3 0 1 1	4 272 232 4 1 0.00 0.14 3 1 1 0 3 0 1 1
4 272 208 4 5 0.00 1.44 2 2 1 0 1 0 1 1	4 272 232 16 3 0.00 0.20 3 4 1 0 0 0 1 1
4 272 208 4 1 0.00 1.58 1 1 1 1 1 1 1 1	4 272 232 4 2 0.00 0.29 3 1 1 0 0 0 1 1
4 272 208 3 5 0.00 1.09 3 1 1 0 0 0 1 1	4 272 232 4 2 0.00 0.14 3 1 1 1 0 0 1 1
4 272 208 3 1 0.00 1.47 3 2 1 0 0 0 1 1	4 272 232 4 5 0.00 0.30 3 1 1 0 0 0 1 1
4 272 208 3 2 0.00 2.22 3 1 2 0 0 0 1 1	4 272 232 4 1 0.00 0.52 1 1 1 1 1 1 1 1
4 272 208 4 2 0.00 2.35 3 1 1 0 1 0 1 1	4 272 232 3 7 0.00 0.25 1 1 1 0 0 1 1 1
4 272 208 4 4 0.00 3.09 3 1 1 1 1 0 1 1	4 272 232 4 2 0.00 0.49 3 1 1 0 0 0 1 1
4 272 208 3 7 0.00 2.60 3 1 1 0 1 0 1 1	4 272 232 3 3 0.00 0.40 3 1 1 1 0 0 1 1
4 272 208 3 3 0.00 3.31 2 1 1 0 0 0 1 1	4 272 232 4 1 0.00 0.33 2 1 1 0 0 0 1 1
4 272 208 4 5 0.00 4.00 3 1 1 0 0 0 1 1	4 272 232 7 4 0.00 0.35 3 1 1 0 0 0 1 1
4 272 208 3 2 0.00 3.43 3 1 1 1 1 0 1 1	4 272 232 3 3 0.00 0.34 3 1 1 0 0 0 1 1
4 272 208 3 2 0.00 4.14 3 4 1 0 1 0 1 1	4 272 232 3 3 0.00 0.58 3 1 1 0 0 0 1 1
4 272 208 8 4 0.00 0.47 1 2 2 0 0 1 1 1	4 272 232 4 3 0.00 0.51 3 1 1 0 0 0 1 1
4 272 208 4 1 0.00 1.12 6 2 2 0 0 0 1 1	4 272 232 3 3 0.00 0.27 3 1 1 0 0 0 1 1
4 272 216 5 2 0.00 0.41 3 1 1 0 0 0 1 1	4 272 232 4 1 0.00 0.20 3 1 1 0 0 0 1 1
4 272 216 4 5 0.00 0.63 2 2 2 0 0 0 1 1	4 272 232 3 1 0.00 0.27 3 1 1 0 0 0 1 1
4 272 216 7 4 0.00 0.46 3 1 1 0 0 0 1 1	4 272 232 3 5 0.00 0.43 2 1 1 0 0 0 1 1
4 272 216 4 2 0.00 0.35 3 1 1 0 0 0 1 1	4 272 232 4 2 0.00 0.41 3 1 1 0 0 0 1 1
4 272 216 4 5 0.00 0.48 3 1 1 0 0 0 1 1	4 272 232 4 1 0.00 0.26 3 1 1 0 0 0 1 1
4 272 216 3 1 0.00 0.91 1 1 1 0 0 1 1 1	4 272 232 7 22 0.00 0.40 3 1 1 0 0 0 1 1
4 272 216 3 1 0.00 0.93 3 1 1 0 0 0 1 1	4 272 232 4 2 0.00 0.33 3 2 2 0 1 0 1 1
4 272 216 3 1 0.00 0.62 3 1 1 0 0 0 1 1	4 272 232 4 1 0.00 0.27 2 1 1 1 0 0 1 1
4 272 216 3 4 0.00 1.13 3 1 1 0 0 0 1 1	4 272 232 3 5 0.00 0.43 3 1 1 0 0 0 1 1
4 272 216 3 5 0.00 1.59 3 1 1 0 0 0 1 1	4 272 232 3 1 0.00 0.35 3 1 1 0 0 0 1 1
4 272 216 4 1 0.00 1.27 3 1 1 0 0 0 1 1	4 272 232 4 1 0.00 0.40 2 1 1 0 0 0 1 1
4 272 216 4 5 0.00 1.24 3 1 1 0 0 0 1 1	4 272 232 2 4 0.00 0.47 3 1 1 0 0 0 1 1
4 272 216 4 3 0.00 1.89 2 1 1 0 0 0 1 1	4 272 232 3 2 0.00 0.46 3 1 1 0 0 0 1 1
4 272 216 4 22 0.00 1.46 2 1 1 0 0 0 1 1	4 272 232 4 2 0.00 0.50 3 1 1 0 0 0 1 1
4 272 216 4 22 0.00 2.54 2 2 2 0 0 0 1 1	4 272 232 4 1 0.00 0.34 3 1 1 0 0 0 1 1
4 272 216 3 5 0.00 2.78 3 1 1 0 0 0 1 1	4 272 232 7 5 0.00 0.52 3 1 1 0 0 0 1 1
4 272 216 3 5 0.00 3.32 3 1 1 0 0 0 1 1	4 272 232 7 5 0.00 0.52 3 1 1 0 0 0 1 1
4 272 216 4 2 0.00 2.73 2 1 1 0 1 0 1 1	4 272 232 3 1 0.00 0.56 3 1 1 0 0 0 1 1
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4 272 216 3 5 0.00 1.00 3 1 1 0 0 0 1 1	4 272 232 3 3 0.00 0.58 3 1 1 0 0 0 1 1
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4 272 224 4 5 0.00 0.26 3 1 1 0 1 0 1 1	4 272 232 3 2 0.00 0.96 2 1 1 0 0 0 1 1
4 272 224 4 1 0.00 0.24 2 1 1 0 1 0 1 1	4 272 232 4 5 0.00 0.86 3 1 1 0 0 0 1 1
4 272 224 7 55 0.00 0.35 3 1 1 0 0 0 1 1	4 272 232 3 5 0.00 0.84 3 1 1 0 1 0 1 1
4 272 224 4 7 0.00 0.32 3 1 1 0 1 0 1 1	4 272 232 3 2 0.00 1.03 2 1 1 0 0 0 1 1
4 272 224 3 2 0.00 0.42 3 1 1 0 0 0 1 1	4 272 232 6 4 0.00 0.92 3 1 2 0 0 0 1 1
4 272 224 4 4 0.00 0.46 3 1 1 0 0 0 1 1	4 272 232 7 6 0.00 0.73 3 1 1 3 0 0 1 1
4 272 224 3 2 0.00 0.48 3 1 1 0 1 0 1 1	4 272 232 3 7 0.00 0.92 2 1 1 0 0 0 1 1
4 272 224 4 5 0.00 0.45 3 1 1 0 0 0 1 1	4 272 232 4 2 0.00 0.59 2 1 1 0 0 0 1 1
4 272 224 4 1 0.00 0.54 3 1 1 0 0 0 1 1	4 272 232 3 5 0.00 0.96 3 1 2 0 0 0 1 1
4 272 224 3 55 0.00 0.36 3 1 1 0 0 0 1 1	4 272 232 3 4 0.00 2.49 3 1 1 1 0 0 1 1
4 272 224 4 3 0.00 0.32 2 1 1 0 0 0 1 1	4 272 232 4 2 0.00 1.88 3 1 1 0 0 0 1 1
4 272 224 3 3 0.00 0.74 3 1 1 0 0 0 1 1	4 272 232 3 5 0.00 1.24 3 1 1 0 0 0 1 1
4 272 224 8 4 0.00 6.74 3 1 1 0 0 0 1 1	4 272 232 3 3 0.00 1.90 2 1 1 0 0 0 1 1
4 272 224 4 2 0.00 1.33 3 1 1 0 3 0 1 1	4 272 232 3 2 0.00 1.24 3 1 1 0 0 0 1 1
4 272 224 4 22 0.00 1.05 3 1 1 0 0 0 1 1	4 272 232 4 2 0.00 1.71 3 1 1 0 0 0 1 1
4 272 224 3 1 0.00 0.96 3 1 1 0 0 0 1 1	4 272 232 6 2 0.00 1.99 3 1 1 0 0 0 1 1
4 272 224 4 4 0.00 1.07 3 1 1 0 0 0 1 1	4 272 232 3 5 0.00 1.87 3 1 1 0 0 0 1 1
4 272 224 5 55 0.00 0.69 3 1 1 0 1 0 1 1	4 272 232 4 1 0.00 2.26 2 1 1 1 0 0 1 1
4 272 224 4 1 0.00 1.46 3 4 1 0 0 0 1 1	4 272 232 4 2 0.00 2.12 3 1 1 1 0 0 1 1
4 272 224 4 22 0.00 1.20 3 1 1 0 0 0 1 1	4 272 232 3 2 0.00 5.34 3 1 1 0 0 0 1 1
4 272 224 4 7 0.00 0.93 3 1 1 0 0 0 1 1	4 272 232 4 2 0.00 10.48 3 2 2 0 1 0 1 1
4 272 224 3 5 0.00 1.13 3 1 1 0 0 0 1 1	4 272 232 3 4 0.00 9.56 3 1 2 0 0 0 1 1
4 272 224 4 7 0.00 0.81 3 1 1 0 0 0 1 1	4 272 232 3 2 0.00 3.01 1 1 1 0 0 1 1 1
4 272 224 4 2 0.00 1.39 3 1 1 0 0 0 1 1	4 272 232 4 2 0.00 2.40 1 2 2 0 0 1 1 1
4 272 224 6 4 0.00 1.16 2 1 1 0 0 0 1 1	4 272 232 4 1 0.00 1.23 1 2 1 0 0 1 1 1
4 272 224 4 2 0.00 1.29 3 1 1 0 0 0 1 1	4 272 232 4 1 0.00 0.38 1 1 2 0 3 1 1 1
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4 288 184 7 5 0.00 0.77 3 1 1 0 0 0 1 1	4 292 156 3 6 0.00 2.49 3 1 1 0 0 0 1 1
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4 288 184 3 2 0.00 4.57 3 1 1 0 0 0 1 1	4 292 184 4 5 0.00 0.61 3 1 1 0 0 0 1 1
4 288 184 3 5 0.00 1.59 3 1 2 0 0 0 1 1	4 292 184 2 5 0.00 0.39 3 1 1 0 0 0 1 1
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4 288 192 4 5 0.00 0.30 3 1 1 0 0 0 1 1	4 292 184 3 4 0.00 0.82 3 1 1 0 0 0 1 1
4 288 192 4 1 0.00 0.34 3 1 1 0 0 0 1 1	4 292 184 5 5 0.00 0.91 3 1 1 0 0 0 1 1
4 288 192 4 5 0.00 0.60 3 1 2 0 0 0 1 1	4 292 184 9 55 0.00 1.52 3 1 1 0 0 0 1 1
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4 288 192 3 2 0.00 2.33 3 1 1 0 1 0 1 1	4 292 180 4 2 0.00 0.93 2 2 2 0 0 0 1 1
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4 292 252 4 22 0.00 0.52 2 1 1 0 0 0 1 1	4 292 268 4 2 0.00 0.42 3 1 1 0 0 0 1 1
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4 292 252 12 2 0.00 1.96 2 1 1 0 0 0 1 1	4 292 268 4 1 0.00 0.45 3 1 1 0 0 0 1 1
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4 292 256 3 4 0.00 0.47 3 1 1 0 0 0 1 1	4 292 268 3 2 0.00 0.49 3 1 1 0 0 0 1 1
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4 292 260 4 2 0.00 0.27 3 1 1 0 0 0 1 1	4 292 268 3 5 0.00 1.92 3 1 1 0 0 0 1 1
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4 292 260 4 2 0.00 0.63 3 1 1 0 0 0 1 1	4 292 272 9 5 0.00 0.38 2 1 1 0 0 0 1 1
4 292 260 4 1 0.00 0.43 3 1 1 0 0 0 1 1	4 292 272 3 5 0.00 0.41 3 1 1 0 0 0 1 1
4 292 260 3 2 0.00 1.07 3 1 1 0 0 0 1 1	4 292 272 4 5 0.00 0.46 3 1 1 0 0 0 1 1
4 292 260 3 2 0.00 0.52 3 1 1 0 0 0 1 1	4 292 272 12 7 0.00 0.43 3 1 1 0 0 0 1 1
4 292 260 4 55 0.00 0.69 3 1 1 0 0 0 1 1	4 292 272 4 1 0.00 0.46 3 1 1 0 0 0 1 1
4 292 260 3 2 0.00 1.53 3 1 1 0 0 0 1 1	4 292 272 3 4 0.00 0.51 3 1 1 0 0 0 1 1
4 292 260 3 4 0.00 1.98 2 1 1 0 0 0 1 1	4 292 272 4 4 0.00 0.63 3 1 1 0 0 0 1 1
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4 292 264 4 5 0.00 0.76 3 1 2 0 0 0 1 1	4 292 276 2 3 0.00 0.46 3 2 2 0 0 0 1 1
4 292 264 3 55 0.00 0.78 3 1 2 0 0 0 1 1	4 292 276 6 4 0.00 0.32 3 1 1 0 0 0 1 1
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4 220 188 4 4 0.00 1.41 3 1 1 0 0 0 1 1
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4 220 188 4 2 0.00 2.21 3 1 1 0 0 0 1 1
4 220 188 2 4 0.00 2.33 3 1 1 0 0 0 1 1
4 220 188 4 22 0.00 5.00 2 1 1 0 0 0 1 1
4 220 192 3 7 0.00 3.12 3 1 1 0 0 0 1 1
4 220 192 4 55 0.00 0.90 2 1 1 0 0 0 1 1
4 220 192 4 1 0.00 0.40 3 1 1 0 0 0 1 1
4 220 192 1 2 0.00 4.35 2 1 1 0 0 0 1 1
4 220 196 4 4 0.00 1.06 2 1 1 0 0 0 1 1
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4	216	172	3	2	0.00	1.05	2	1	1	0	0	0	1	1
4	216	172	4	1	0.00	0.99	3	1	1	0	0	0	1	1
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4	216	176	8	0	0.00	0.65	3	1	1	0	0	0	1	1
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4	216	176	6	0	0.00	0.65	3	1	1	0	0	0	1	1
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4	216	176	8	0	0.00	0.44	3	1	1	0	0	0	1	1
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4	216	176	7	0	0.00	0.35	3	1	1	0	0	0	1	1
4	216	180	16	0	0.00	2.43	3	1	1	0	0	0	1	1
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4	216	180	10	0	0.00	0.47	3	1	1	0	0	0	1	1
4	216	180	8	0	0.00	0.71	3	1	1	0	0	0	1	1
4	216	180	4	0	0.00	0.86	2	1	1	0	0	0	1	1
4	216	180	4	0	0.00	0.82	3	1	1	0	1	0	1	1
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4	216	180	4	0	0.00	1.92	1	1	1	0	0	1	1	1
4	216	180	3	0	0.00	0.89	3	1	1	0	0	0	1	1
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4	216	184	4	0	0.00	0.46	3	1	1	0	0	0	1	1
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4	216	184	4	0	0.00	1.87	1	1	1	0	1	1	1	1
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4	216	184	16	0	0.00	1.24	3	4	1	0	0	0	1	1
4	216	188	4	0	0.00	0.31	3	1	1	0	0	0	1	1
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4	216	188	1	0	0.00	0.81	3	1	1	0	0	0	1	1
4	216	188	4	0	0.00	0.88	3	1	1	0	0	0	1	1
4	216	188	7	0	0.00	0.71	3	1	1	0	0	0	1	1
4	216	188	3	0	0.00	0.43	3	1	1	0	1	0	1	1
4	216	188	3	0	0.00	0.62	3	1	1	1	0	0	1	1
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4	216	188	3	0	0.00	1.10	3	1	1	1	0	0	1	1
4	216	188	2	0	0.00	1.63	3	1	1	0	0	0	1	1
4	216	188	4	0	0.00	9.05	1	1	1	0	0	1	1	1
4	216	192	3	0	0.00	1.23	3	1	1	0	0	0	1	1
4	216	192	3	0	0.00	1.41	3	1	1	0	1	0	1	1
4	216	192	4	0	0.00	0.24	3	1	1	0	0	0	1	1
4	216	192	4	0	0.00	1.22	3	1	1	0	0	0	1	1
4	216	192	3	0	0.00	0.80	3	1	1	0	0	0	1	1
4	216	192	4	0	0.00	0.48	3	1	1	3	0	0	1	1
4	216	192	4	0	0.00	0.54	3	1	1	0	0	0	1	1
4	216	192	4	0	0.00	0.80	3	1	2	0	0	0	1	1
4	216	192	2	0	0.00	0.89	3	1	2	0	0	0	1	1
4	216	192	4	0	0.00	0.38	3	1	1	0	0	0	1	1
4	216	192	4	0	0.00	1.29	3	1	1	0	0	0	1	1
4	216	192	4	0	0.00	2.65	3	1	1	0	0	0	1	1
4	216	192	4	0	0.00	1.95	3	1	2	0	0	0	1	1
4	216	192	4	0	0.00	0.61	3	1	1	1	1	0	1	1
4	216	192	3	5	0.00	6.30	2	1	2	0	3	0	1	1
4	216	196	4	0	0.00	0.38	3	1	1	0	0	0	1	1
4	216	196	4	0	0.00	0.48	2	1	1	0	0	0	1	1
4	216	196	4	0	0.00	0.95	3	1	1	1	0	0	1	1
4	216	196	4	0	0.00	5.67	3	1	1	1	0	0	1	1
4	216	196	4	0	0.00	0.56	3	1	1	0	0	0	1	1
4	216	196	4	0	0.00	7.94	3	1	1	1	0	0	1	1
4	216	200	4	0	0.00	0.28	3	1	1	0	1	0	1	1
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4	216	200	4	0	0.00	1.01	2	1	1	0	0	0	1	1
4	216	200	4	0	0.00	0.46	3	1	1	0	3	0	1	1
4	216	200	3	0	0.00	1.33	3	1	1	0	0	0	1	1
4	216	200	4	0	0.00	1.85	3	1	1	0	0	0	1	1
4	220	156	16	0	0.00	2.70	3	4	1	0	0	0	1	1
4	220	160	16	0	0.00	1.37	3	1	1	0	0	0	1	1
4	220	160	4	0	0.00	1.39	3	1	1	0	0	0	1	1
4	220	160	4	0	0.00	0.98	2	1	1	0	0	0	1	1
4	220	160	4	0	0.00	0.49	3	1	1	0	0	0	1	1
4	220	160	4	2	0.00	0.32	3	1	1	0	0	0	1	1
4	220	164	2	0	0.00	0.58	3	1	1	0	0	0	1	1
4	220	164	4	0	0.00	1.04	2	1	1	0	0	0	1	1
4	220	164	4	0	0.00	0.62	3	1	1	0	0	0	1	1
4	220	164	4	0	0.00	0.84	3	1	1	0	0	0	1	1
4	220	164	4	0	0.00	0.86	3	1	1	0	0	0	1	1
4	220	164	4	0	0.00	1.02	2	1	1	1	1	0	1	1
4	220	164	4	0	0.00	2.28	2	1	1	0	0	0	1	1
4	220	164	7	0	0.00	2.14	3	1	1	0	0	0	1	1
4	220	168	4	0	0.00	0.30	3	2	1	0	0	0	1	1
4	220	168	6	0	0.00	0.37	3	1	1	0	0	0	1	1
4	220	168	3	0	0.00	1.22	3	1	1	0	0	0	1	1
4	220	168	4	0	0.00	0.55	3	1	1	0	0	0	1	1
4	220	168	4	0	0.00	0.98	3	1	1	0	0	0	1	1
4	220	172	4	1	0.00	3.05	3	1	1	0	0	0	1	1
4	220	172	4	2	0.00	2.12	3	1	1	0	0	0	1	1
4	220	172	4											

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4 292 304 4 2 0.00 1.61 3 1 1 0 1 0 1 1	4 292 312 3 2 0.00 0.38 3 1 1 0 0 0 1 1
4 292 304 4 2 0.00 1.33 3 1 1 0 1 0 1 1	4 292 312 4 5 0.00 0.28 3 1 1 0 0 0 1 1
4 292 304 3 7 0.00 4.78 3 1 1 0 1 0 1 1	4 292 312 4 1 0.00 0.39 3 1 2 0 0 0 1 1
4 292 304 3 4 0.00 4.19 3 1 1 0 0 0 1 1	4 292 312 4 5 0.00 0.32 3 1 1 0 0 0 1 1
4 292 304 3 4 0.00 4.73 3 1 1 0 3 0 1 1	4 292 312 4 5 0.00 0.31 2 1 1 0 0 0 1 1
4 292 304 3 2 0.00 50.11 2 1 1 0 0 0 1 1	4 292 312 3 5 0.00 0.42 3 1 1 0 0 0 1 1
4 292 304 7 4 0.00 0.53 1 1 1 0 0 1 1 1	4 292 312 4 8 0.00 0.44 3 1 1 0 0 0 1 1
4 292 304 4 4 0.00 0.39 1 1 1 0 0 1 1 1	4 292 312 4 5 0.00 0.33 2 1 1 0 0 0 1 1
4 292 308 4 2 0.00 0.17 3 1 1 0 0 0 1 1	4 292 312 4 1 0.00 0.39 3 1 1 0 0 0 1 1
4 292 308 4 5 0.00 0.14 3 1 1 0 0 0 1 1	4 292 312 3 7 0.00 0.38 3 1 1 0 0 0 1 1
4 292 308 4 2 0.00 0.21 3 1 1 0 0 0 1 1	4 292 312 3 5 0.00 0.50 3 1 1 0 0 0 1 1
4 292 308 3 1 0.00 0.13 3 1 1 0 0 0 1 1	4 292 312 3 2 0.00 0.52 3 1 1 0 1 0 1 1
4 292 308 4 2 0.00 0.28 3 1 1 0 0 0 1 1	4 292 312 4 5 0.00 0.39 3 1 1 1 0 0 1 1
4 292 308 3 55 0.00 0.32 2 1 1 0 0 0 1 1	4 292 312 3 5 0.00 0.49 3 1 1 0 0 0 1 1
4 292 308 3 4 0.00 0.38 3 1 1 0 0 0 1 1	4 292 312 4 22 0.00 0.59 3 1 1 0 0 0 1 1
4 292 308 3 2 0.00 0.31 3 1 1 0 0 0 1 1	4 292 312 4 5 0.00 0.44 3 1 1 0 0 0 1 1
4 292 308 4 4 0.00 0.40 3 1 1 0 0 0 1 1	4 292 312 4 4 0.00 0.59 3 1 1 0 0 0 1 1
4 292 308 3 55 0.00 0.36 3 1 2 0 0 0 1 1	4 292 312 12 4 0.00 0.68 3 1 1 0 0 0 1 1
4 292 308 3 5 0.00 0.39 3 1 1 0 0 0 1 1	4 292 312 4 5 0.00 0.82 2 1 1 0 0 0 1 1
4 292 308 3 4 0.00 0.42 3 1 1 0 0 0 1 1	4 292 312 3 5 0.00 0.67 3 1 1 0 1 0 1 1
4 292 308 4 8 0.00 0.34 3 1 1 0 0 0 1 1	4 292 312 3 4 0.00 0.84 3 1 1 0 0 0 1 1
4 292 308 4 3 0.00 0.28 3 1 2 0 0 0 1 1	4 292 312 3 4 0.00 0.76 3 1 1 1 0 0 1 1
4 292 308 4 5 0.00 0.30 3 1 1 0 0 0 1 1	4 292 312 3 4 0.00 0.94 3 1 1 0 0 0 1 1
4 292 308 4 5 0.00 0.39 2 1 1 0 0 0 1 1	4 292 312 4 2 0.00 0.70 1 1 1 1 1 1 1
4 292 308 4 1 0.00 0.38 3 2 1 0 0 0 1 1	4 292 312 2 2 0.00 0.80 3 1 1 0 0 0 1 1
4 292 308 2 4 0.00 0.57 3 1 2 0 0 0 1 1	4 292 312 3 5 0.00 1.39 3 1 1 0 0 0 1 1
4 292 308 3 2 0.00 0.52 3 1 1 0 0 0 1 1	4 292 312 7 4 0.00 1.14 3 1 1 0 0 0 1 1
4 292 308 4 5 0.00 0.53 3 1 1 0 0 0 1 1	4 292 312 2 2 0.00 0.92 3 1 1 0 0 0 1 1
4 292 308 4 5 0.00 0.62 2 1 1 0 0 0 1 1	4 292 312 3 2 0.00 0.90 2 1 1 0 0 0 1 1
4 292 308 3 5 0.00 0.74 3 1 1 0 0 0 1 1	4 292 312 4 2 0.00 0.64 2 1 1 0 0 0 1 1
4 292 308 3 5 0.00 0.55 2 1 1 0 0 0 1 1	4 292 312 3 5 0.00 1.34 3 1 1 0 0 0 1 1
4 292 308 3 4 0.00 0.54 3 1 1 0 0 0 1 1	4 292 312 6 4 0.00 1.28 3 1 1 0 0 0 1 1
4 292 308 3 2 0.00 0.47 3 1 1 0 0 0 1 1	4 292 312 7 5 0.00 1.42 3 1 1 0 0 0 1 1
4 292 308 8 4 0.00 0.36 3 1 1 0 0 0 1 1	4 292 312 4 2 0.00 1.81 3 1 1 0 1 0 1 1
4 292 308 10 1 0.00 0.72 3 1 1 0 0 0 1 1	4 292 312 4 1 0.00 2.01 3 1 1 0 0 0 1 1
4 292 308 3 55 0.00 0.88 2 1 1 0 1 0 1 1	4 292 312 3 5 0.00 1.81 3 1 1 0 0 0 1 1
4 292 308 4 5 0.00 1.01 3 1 2 0 0 0 1 1	4 292 312 12 2 0.00 1.50 3 1 1 0 5 0 1 1
4 292 308 4 2 0.00 0.98 3 1 2 0 0 0 1 1	4 292 312 3 8 0.00 1.79 3 1 1 0 0 0 1 1
4 292 308 4 5 0.00 0.96 3 1 1 0 0 0 1 1	4 292 312 12 7 0.00 2.56 3 1 1 0 0 0 1 1
4 292 308 4 22 0.00 1.26 3 1 1 0 0 0 1 1	4 292 312 3 5 0.00 2.59 1 1 1 0 0 1 1 1
4 292 308 1 2 0.00 1.19 3 1 1 0 0 0 1 1	4 292 312 4 4 0.00 2.33 3 1 2 0 0 0 1 1
4 292 308 3 4 0.00 0.89 3 1 1 0 0 0 1 1	4 292 312 4 4 0.00 2.54 3 1 2 0 0 0 1 1
4 292 308 12 6 0.00 1.13 3 1 1 0 0 0 1 1	4 292 312 3 2 0.00 2.21 3 1 1 0 0 0 1 1
4 292 308 4 1 0.00 1.43 3 1 1 0 0 0 1 1	4 292 312 3 2 0.00 2.50 3 1 1 0 3 0 1 1
4 292 308 4 2 0.00 1.57 3 1 1 0 0 0 1 1	4 292 312 3 2 0.00 3.03 3 1 1 0 0 0 1 1
4 292 308 4 2 0.00 1.16 2 1 1 0 0 0 1 1	4 292 316 3 1 0.00 0.17 3 1 1 0 0 0 1 1
4 292 308 4 5 0.00 1.47 2 1 1 0 0 0 1 1	4 292 316 4 5 0.00 0.23 3 1 1 0 1 0 1 1
4 292 308 3 2 0.00 1.54 2 1 1 0 0 0 1 1	4 292 316 4 2 0.00 0.26 3 1 1 0 0 0 1 1
4 292 308 4 4 0.00 1.26 3 1 1 0 0 0 1 1	4 292 316 4 1 0.00 0.19 3 1 1 0 1 0 1 1
4 292 308 3 1 0.00 1.26 3 1 1 0 0 0 1 1	4 292 316 4 1 0.00 0.27 3 1 1 0 5 0 1 1
4 292 308 3 55 0.00 1.87 3 1 1 0 0 0 1 1	4 292 316 2 5 0.00 0.41 3 1 2 0 0 0 1 1
4 292 308 4 68 0.00 2.65 3 1 1 0 1 0 1 1	4 292 316 3 4 0.00 0.29 3 1 1 0 1 0 1 1
4 292 308 3 8 0.00 1.90 3 1 1 0 0 0 1 1	4 292 316 3 1 0.00 0.47 2 1 1 0 0 0 1 1
4 292 308 4 5 0.00 1.50 2 1 1 0 0 0 1 1	4 292 316 4 1 0.00 0.42 3 1 1 0 1 0 1 1
4 292 308 3 5 0.00 1.61 3 1 1 0 0 0 1 1	4 292 316 3 4 0.00 0.70 3 1 1 0 0 0 1 1
4 292 308 4 2 0.00 2.44 3 1 1 0 0 0 1 1	4 292 316 4 4 0.00 0.35 3 1 1 0 0 0 1 1
4 292 308 3 2 0.00 2.93 2 1 1 0 0 0 1 1	4 292 316 3 2 0.00 0.58 2 1 1 0 0 0 1 1
4 292 308 4 5 0.00 2.85 2 1 1 0 0 0 1 1	4 292 316 4 2 0.00 0.65 3 1 1 0 0 0 1 1
4 292 308 3 5 0.00 3.21 3 1 1 0 0 0 1 1	4 292 316 4 2 0.00 0.52 3 1 1 0 0 0 1 1
4 292 308 3 1 0.00 3.70 3 1 1 0 0 0 1 1	4 292 316 4 1 0.00 0.54 2 1 1 0 0 0 1 1

4 292 316 3 1 0.00 0.91 3 2 2 0 0 0 1 1
4 292 316 4 4 0.00 0.70 3 1 1 0 0 0 1 1
4 292 316 3 5 0.00 0.71 2 1 1 0 0 0 1 1
4 292 316 3 5 0.00 1.01 3 1 1 0 0 0 1 1
4 292 316 3 1 0.00 1.13 3 1 1 0 0 0 1 1
4 292 316 3 55 0.00 0.87 3 1 1 0 0 0 1 1
4 292 316 3 5 0.00 0.80 3 1 1 0 0 0 1 1
4 292 316 3 7 0.00 1.16 3 1 1 0 0 0 1 1
4 292 316 4 7 0.00 1.23 3 1 1 0 0 0 1 1
4 292 316 1 0 0.00 0.80 3 1 1 0 0 0 1 1
4 292 316 3 5 0.00 1.25 3 1 1 0 0 0 1 1
4 292 316 3 5 0.00 1.30 3 1 1 0 0 0 1 1
4 292 316 4 1 0.00 0.79 3 2 1 0 0 0 1 1
4 292 316 4 5 0.00 1.34 2 1 1 0 1 0 1 1
4 292 316 4 2 0.00 0.97 2 1 1 0 0 0 1 1
4 292 316 1 5 0.00 1.62 3 1 1 0 0 0 1 1
4 292 316 3 1 0.00 1.98 3 1 1 0 0 0 1 1
4 292 316 3 7 0.00 1.47 3 1 1 0 0 0 1 1
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4 292 316 3 2 0.00 6.31 2 1 1 0 1 0 1 1
4 292 320 4 3 0.00 6.25 3 1 1 0 0 0 1 1
4 292 320 4 2 0.00 0.23 3 1 1 0 0 0 1 1
4 292 320 4 22 0.00 0.27 3 1 1 0 6 0 1 1
4 292 320 4 2 0.00 0.27 3 1 1 0 0 0 1 1
4 292 320 3 2 0.00 0.31 3 1 1 0 0 0 1 1
4 292 320 4 4 0.00 0.29 3 1 1 0 0 0 1 1
4 292 320 3 2 0.00 0.33 3 1 1 0 0 0 1 1
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4 292 320 6 4 0.00 0.52 3 1 1 0 0 0 1 1
4 292 320 4 2 0.00 0.42 2 1 1 0 0 0 1 1
4 292 320 4 2 0.00 0.34 3 1 2 0 0 0 1 1
4 292 320 4 5 0.00 0.42 2 1 1 0 0 0 1 1
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4 292 320 3 1 0.00 0.49 3 1 1 0 0 0 1 1
4 292 320 3 2 0.00 0.76 3 1 1 0 0 0 1 1
4 292 320 4 2 0.00 0.86 2 1 1 0 0 0 1 1
4 292 320 3 7 0.00 0.80 3 1 2 0 0 0 1 1
4 292 320 3 7 0.00 1.16 3 1 1 0 0 0 1 1
4 292 320 3 7 0.00 1.07 3 1 1 0 0 0 1 1
4 292 320 3 4 0.00 1.02 3 1 1 0 1 0 1 1
4 292 320 3 7 0.00 1.76 3 1 1 0 0 0 1 1
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4 292 320 3 2 0.00 1.82 2 1 1 0 1 0 1 1
4 292 320 3 5 0.00 1.58 2 1 1 0 0 0 1 1
4 292 320 4 5 0.00 2.24 3 1 1 0 0 0 1 1
4 292 320 1 4 0.00 3.05 3 1 1 0 0 0 1 1
4 292 320 2 2 0.00 4.86 3 1 1 0 0 0 1 1
4 292 324 3 4 0.00 0.23 3 1 1 0 0 0 1 1
4 292 324 3 2 0.00 0.24 3 1 1 0 0 0 1 1
4 292 324 3 2 0.00 0.23 3 1 1 0 0 0 1 1
4 292 324 4 2 0.00 0.16 2 1 1 0 0 0 1 1
4 292 324 3 2 0.00 0.17 3 1 1 0 1 0 1 1
4 292 324 4 2 0.00 0.31 3 1 1 0 0 0 1 1
4 292 324 4 2 0.00 0.18 2 1 1 0 0 0 1 1
4 292 324 4 2 0.00 0.25 3 1 1 0 0 0 1 1
4 292 324 4 2 0.00 0.20 3 1 1 0 0 0 1 1
4 292 324 4 2 0.00 0.28 2 1 1 0 0 0 1 1
4 292 324 4 2 0.00 0.29 3 1 1 0 0 0 1 1
4 292 324 4 1 0.00 0.35 3 1 1 0 0 0 1 1
4 292 324 2 2 0.00 0.32 3 1 1 0 0 0 1 1
4 292 324 4 2 0.00 0.34 3 1 1 0 0 0 1 1
4 292 324 3 5 0.00 0.54 3 1 2 0 0 0 1 1
4 292 324 3 3 0.00 0.53 3 1 1 0 0 0 1 1
4 292 324 3 5 0.00 0.42 3 1 1 0 0 0 1 1
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4 292 324 4 5 0.00 0.45 3 1 1 0 0 0 1 1
4 292 324 4 1 0.00 0.37 3 1 1 0 0 0 1 1
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4 292 324 1 7 0.00 0.70 3 1 1 0 0 0 1 1

4 292 324 3 2 0.00 0.89 3 1 1 0 0 0 1 1
4 292 324 3 5 0.00 0.79 3 1 2 0 0 0 1 1
4 292 324 3 1 0.00 1.32 3 1 1 0 0 0 1 1
4 292 324 3 1 0.00 0.79 3 1 1 0 0 0 1 1
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4 292 324 4 1 0.00 1.37 3 1 1 0 0 0 1 1
4 292 324 3 5 0.00 1.77 3 1 1 0 0 0 1 1
4 292 324 3 2 0.00 1.55 3 1 1 0 0 0 1 1
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4 292 324 3 4 0.00 1.01 1 1 1 0 0 1 1 1
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4 292 328 4 3 0.00 0.29 3 1 1 0 0 0 1 1
4 292 328 4 2 0.00 0.27 3 1 1 0 0 0 1 1
4 292 328 3 7 0.00 0.38 3 1 1 0 0 0 1 1
4 292 328 4 1 0.00 0.27 3 1 1 0 0 0 1 1
4 292 328 4 1 0.00 0.37 3 1 1 0 0 0 1 1
4 292 328 4 2 0.00 0.38 3 1 1 0 0 0 1 1
4 292 328 7 22 0.00 0.34 2 1 1 0 0 0 1 1
4 292 328 7 5 0.00 0.41 3 1 1 0 0 0 1 1
4 292 328 3 1 0.00 0.38 3 1 1 0 0 0 1 1
4 292 328 3 3 0.00 0.70 3 1 1 0 0 0 1 1
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4 292 328 3 2 0.00 0.77 3 1 1 0 0 0 1 1
4 292 328 3 1 0.00 0.81 3 1 1 0 0 0 1 1
4 292 328 3 2 0.00 0.87 3 1 1 0 0 0 1 1
4 292 328 4 5 0.00 1.26 3 1 1 0 0 0 1 1
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4 292 328 4 5 0.00 3.49 3 1 1 0 1 0 1 1
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4 292 332 7 4 0.00 0.31 3 1 1 0 0 0 1 1
4 292 332 4 5 0.00 0.55 3 1 1 0 1 0 1 1
4 292 332 4 2 0.00 0.47 3 1 1 0 0 0 1 1
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4 292 332 3 5 0.00 0.59 3 1 1 0 0 0 1 1
4 292 332 4 1 0.00 0.87 3 1 1 0 0 0 1 1
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4 292 332 4 2 0.00 1.09 3 1 1 0 1 0 1 1
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4 292 336 3 5 0.00 0.45 2 1 1 0 0 0 1 1
4 292 336 4 2 0.00 0.71 3 1 1 0 0 0 1 1
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4 292 336 3 2 0.00 1.18 3 1 1 0 0 0 1 1
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4 292 340 3 2 0.00 0.41 3 1 1 0 0 0 1 1
4 292 340 4 2 0.00 0.68 2 1 1 0 0 0 1 1
4 292 340 3 3 0.00 1.18 3 1 1 0 0 0 1 1
4 292 340 3 2 0.00 1.80 3 1 1 0 0 0 1 1
4 292 344 4 2 0.00 0.73 3 1 1 0 0 0 1 1
4 292 344 3 2 0.00 1.26 3 1 1 0 0 0 1 1
4 292 344 4 3 0.00 1.16 2 1 1 0 0 0 1 1

APPENDIX B

LITHIC ANALYSIS

Nine dimensions were measured for all debitage. The raw data files are coded according to the modes identified in Table 46. Several of the technological dimensions require specification as follows:

CORTEX ON DORSAL SURFACE: For flakes, this applies to the presence of cortex on the dorsal surface only (platform or lateral margins do not apply). For chunks and cores, this dimension applies the presence of cortex anywhere.

PLATFORM TYPE: This dimension refers to the point of impact. By definition, this dimension was not applicable to chunks or all types.

Cortex refers to platforms that are cortex. Simple platforms are those with only one flake scar. Faceted platforms have more than one flake scar. Former bifaces refer to those platforms where the point of impact is composed of a former biface. Fragmentary platforms are too narrow to determine any other characteristics but the flake has a bulb of force.

The remaining modes in this dimension measure breakage when the platform was absent. These modes included hinge, step, and snap fractures.

PLATFORM PREPARATION: Although there is variation in platform preparation, this dimension records only the presence or absence of "crushing", either on the platform or dorsal surface of the flake just below the platform. Crushing appears as small step fractures or abrasion marks.

PLATFORM "LIP": This dimension refers to the presence (or absence) of platform "lipping". It is observed in longitudinal cross section of the flake. It is characteristic of an acute platform angle and is most often described in association with bifacial thinning flakes (and one implies the other) but it is also associated with other platform types.

NUMBER OF FLAKE SCARS ON DORSAL SURFACE: This dimension is coded as an integer value referring to the number of flake scars observed on the dorsal surface. A value of nine refers to a

number greater than or equal to nine. By definition, this dimension is not applicable to chunks of any kind.

FLAKE TERMINATION: This dimension describes the distal end for flakes. It is by definition not applicable to chunks.

PRESENCE OF WEAR: This dimension is coded for the number of tools observed on each object.

Table 46: Key to the debitage data.

Field 1: Site

1. County Line
2. Cummins (north)
3. Cummins (south)

Field 2: X-Coordinate

Field 3: Y-Coordinate

Field 4: Weight (grams)

Field 5: Cortex on Dorsal Surface

0. absent
1. present

Field 6: Platform type (point of impact)

1. cortex
2. simple
3. faceted
4. former biface
5. fragmentary
6. absent, hinge fracture
7. absent, step fracture
8. absent, snap fracture
9. not applicable

Field 7: Platform Preparation

0. absent
1. present
9. not applicable (for chunks or flakes with missing platforms)

Table 46 (continued): Key for the debitage data.

Field 8: Platform "Lipping"

0. absent
1. present
9. not applicable (for chunks or flakes with missing platforms)

Field 9: Number of Flake Scars on Dorsal Surface

Field 10: Flake Termination

1. feather
2. hinge
3. step
4. snap
9. not applicable (for chunks of any type)

Field 11: Presence of Wear

Field 12: Raw Material Type

1. Crowley's Ridge Chert
 2. Crowley's Ridge Chert/Quartzite
 3. Crowley's Ridge Quartzite
 4. Mill Creek Chert
 5. Dover Chert
 6. Burlington Chert
 7. Kaolin Chert
 8. Pitkin Chert
 9. indeterminate
 10. sandstone
-

1 544 696 0.0188 0 3 1 0 1 2 0 1
 1 504 484 1.9810 1 2 0 0 1 1 1 1
 1 512 484 11.0000 0 0 0 0 0 0 0 1
 1 512 488 0.4000 0 0 0 0 0 0 0 1
 1 512 496 0.5000 0 0 0 0 0 0 0 1
 1 520 480 0.5259 1 1 0 0 1 1 0 1
 1 520 484 0.0383 0 6 9 9 4 3 0 1
 1 520 516 0.5000 0 0 0 0 0 0 1 1
 1 520 516 1.1308 0 2 0 0 4 3 1 1
 1 520 524 2.5000 0 0 0 0 0 0 0 1
 1 520 528 21.3000 0 0 0 0 0 0 0 3
 1 520 532 4.5000 0 0 0 0 0 0 0 1
 1 520 536 0.0589 0 6 9 9 4 1 1 1
 1 520 536 0.1840 1 2 0 0 3 1 0 1
 1 520 536 2.2000 0 0 0 0 0 0 0 3
 1 520 540 0.0825 0 7 9 9 2 1 0 1
 1 520 540 24.2000 0 0 0 0 0 0 0 1
 1 520 544 0.8000 0 0 0 0 0 0 0 1
 1 520 544 0.8000 0 0 0 0 0 0 0 1
 1 520 548 0.3557 1 2 0 0 0 2 0 1
 1 520 552 2.2000 0 0 0 0 0 0 1 1
 1 520 556 3.2448 1 1 0 0 0 4 1 1
 1 520 560 3.3000 0 0 0 0 0 0 0 1
 1 520 564 0.3000 0 0 0 0 0 0 0 1
 1 520 564 0.3000 0 0 0 0 0 0 0 1
 1 520 596 0.2000 0 0 0 0 0 0 0 1
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 1 528 508 0.1771 0 1 0 1 3 3 1 1
 1 528 508 0.1807 0 3 0 1 3 3 0 1
 1 528 508 0.2000 0 0 0 0 0 0 0 1
 1 528 512 0.1600 0 0 0 0 0 0 0 1
 1 528 516 20.3000 0 0 0 0 0 0 0 1
 1 528 520 0.5000 0 0 0 0 0 0 0 1
 1 528 520 0.5000 0 0 0 0 0 0 0 1
 1 528 520 2.5838 1 5 0 0 4 1 0 1
 1 528 524 0.1000 0 0 0 0 0 0 0 1
 1 528 524 0.2315 1 6 9 9 0 2 0 1
 1 528 524 1.1822 0 2 0 0 2 1 0 7
 1 528 528 4.4647 1 1 0 0 3 1 0 1
 1 528 532 0.3000 0 0 0 0 0 0 0 1
 1 528 532 1.9000 0 0 0 0 0 0 0 2
 1 528 536 0.4160 1 8 9 9 2 2 0 1
 1 528 536 0.6000 0 0 0 0 0 0 0 1
 1 528 536 1.0678 0 2 1 0 3 2 0 1
 1 528 536 3.8000 0 0 0 0 0 0 0 1
 1 528 540 0.2030 1 7 9 9 2 1 0 1
 1 528 540 0.6184 1 8 9 9 3 2 0 1
 1 536 504 0.0000 0 0 0 0 0 0 0 1
 1 536 516 0.4299 0 2 0 0 1 1 0 1
 1 536 516 0.6626 1 2 1 0 4 1 1 1
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 1 536 524 0.9000 0 0 0 0 0 0 0 1
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 1 536 532 0.4000 0 0 0 0 0 0 0 1
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 1 536 536 2.0567 1 2 0 0 3 1 0 1
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 1 536 540 0.0805 0 1 0 0 1 3 0 1
 1 536 540 0.1000 0 0 0 0 0 0 0 1
 1 536 540 1.0000 0 0 0 0 0 0 1 1
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 1 536 548 0.2000 0 0 0 0 0 0 0 1
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 1 536 548 1.5578 0 1 0 1 4 3 1 1

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 1 544 504 0.1633 1 1 0 0 1 1 0 1
 1 544 504 0.3250 0 2 0 0 4 1 0 1
 1 544 504 1.0000 0 0 0 0 0 0 0 1
 1 544 508 0.9000 0 0 0 0 0 0 0 1
 1 544 512 0.5000 0 0 0 0 0 0 0 1
 1 544 512 1.9000 0 0 0 0 0 0 0 1
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 1 544 516 0.8000 0 0 0 0 0 0 0 1
 1 544 516 0.9000 0 0 0 0 0 0 0 1
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 1 544 520 0.2817 1 2 1 0 1 1 0 1
 1 544 520 0.3156 0 2 0 0 3 3 0 1
 1 544 520 0.8360 0 2 0 0 2 1 0 3
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 1 544 520 1.8000 0 0 0 0 0 0 0 1
 1 544 520 3.0000 0 0 0 0 0 0 1 6
 1 544 524 0.2000 0 0 0 0 0 0 0 1
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 1 544 528 0.4000 0 0 0 0 0 0 1 1
 1 544 528 4.9000 0 0 0 0 0 0 0 1
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 1 544 532 0.2346 0 3 0 0 4 3 0 1
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 1 544 532 8.2000 0 0 0 0 0 0 0 1
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 1 544 532 17.1148 1 1 0 0 0 1 1 1
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 1 544 536 0.1000 0 0 0 0 0 0 0 1
 1 544 536 0.2000 0 0 0 0 0 0 0 1
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 1 544 540 0.1048 1 2 0 0 0 1 0 1
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 1 544 540 0.6846 0 3 0 0 4 1 0 1
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 1 544 540 1.6320 1 2 0 0 0 1 1 1
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 1 544 540 10.7000 0 0 0 0 0 0 1 1
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 1 544 544 0.1000 0 0 0 0 0 0 0 1
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 1 544 544 0.3056 1 6 9 9 1 2 0 1
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 1 544 544 3.2000 0 0 0 0 0 0 0 1
 1 544 548 0.0000 0 0 0 0 0 0 0 1
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 1 544 548 0.0389 0 5 0 0 4 1 0 1

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2 892	144	1	0.078	0	3	1	0	5	1	1	1
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2 936	144	1	12.508	0	1	0	0	6	1	0	1
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2 992	144	1	0.194	0	5	1	0	6	1	0	1
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2 932	152	0	0.178	0	9	9	9	99	9	0	1
2 932	152	2	0.427	1	1	0	0	3	4	0	1
2 936	152	1	32.700	0	1	0	0	12	1	0	1
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2 916	160	0	4.619	0	9	9	9	99	9	0	1
2 920	160	0	0.014	0	9	9	9	99	9	0	1
2 928	160	0	0.323	0	9	9	9	99	9	0	1
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2 920	168	4	0.019	0	9	9	9	99	9	0	1
2 924	168	1	1.087	0	1	1	0	3	2	0	1
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2 936	168	1	0.000	0	3	1	0	1	2	0	6
2 904	176	1	0.627	1	2	0	0	1	1	2	1
2 936	184	2	0.362	0	2	0	0	2	3	0	1
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2 948	184	3	1.181	1	9	9	9	99	9	0	1
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2 964	192	5	20.936	1	9	9	9	99	9	0	1
2 912	192	0	0.124	0	9	9	9	99	9	0	1
2 924	192	1	0.272	0	2	0	0	5	2	2	1
2 936	192	1	1.986	1	1	0	0	3	2	3	1
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2 940	192	5	12.830	5	9	9	9	99	9	0	1
2 956	192	0	0.000	0	9	9	9	99	9	0	1
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2 968	192	5	2.597	0	9	9	9	99	9	0	1
2 972	192	6	0.924	0	9	9	9	99	9	0	1
2 976	192	2	0.148	0	3	1	0	4	4	0	1
2 992	192	1	1.523	0	1	0	1	4	2	2	1
2 844	192	7	54.190	1	9	9	9	99	9	1	1
2 860	192	5	25.960	1	9	9	9	99	9	0	1
2 868	192	0	0.234	0	9	9	9	99	9	0	1
2 872	192	5	12.509	1	9	9	9	99	9	0	1
2 880	192	2	0.874	1	3	0	0	2	4	0	1
2 892	192	2	0.315	0	5	0	0	3	4	0	1
3 100	0	5	29.751	1	9	9	9	99	9	0	1
3 184	0	0	0.105	0	9	9	9	99	9	0	1
3 192	0	0	0.585	0	9	9	9	99	9	0	1
3 196	0	0	9.220	0	9	9	9	99	9	0	2
3 224	0	0	0.375	0	9	9	9	99	9	0	3

APPENDIX C

DEBITAGE MEASUREMENTS

In the sample of 102 flakes weight was measured to 0.001 grams. Length and thickness were measured to 0.01 millimeters five times each. In the regression analyses discussed in Chapter Eight, mean length and mean thickness were used. The order in which these variables are listed for each flake is listed in Table 47.

Table 47: Key to Debitage Measurements.

Field 1:	<u>X Coordinate</u>
Field 2:	<u>Y Coordinate</u>
Field 3:	<u>Weight</u>
Field 4:	<u>Length (1)</u>
Field 5:	<u>Thickness (1)</u>
Field 6:	<u>Length (2)</u>
Field 7:	<u>Thickness (2)</u>
Field 8:	<u>Length (3)</u>
Field 9:	<u>Thickness (3)</u>
Field 10:	<u>Length (4)</u>
Field 11:	<u>Thickness (4)</u>
Field 12:	<u>Length (5)</u>
Field 13:	<u>Thickness (5)</u>

520 536 0.184 12.82 1.45 12.83 1.45 12.80 1.44 12.82 1.45 12.85 1.45
536 532 0.394 15.10 2.90 15.10 2.87 15.10 2.85 15.10 2.85 15.08 2.89
544 504 0.325 16.56 3.20 16.59 3.20 16.56 3.20 16.55 3.22 16.55 3.20
544 536 0.271 14.36 1.90 14.40 1.80 14.40 1.90 14.40 1.86 14.40 1.85
544 540 1.632 22.49 3.74 22.49 3.75 22.50 3.77 22.50 3.75 22.50 3.76
544 540 1.125 25.56 4.50 25.57 4.50 25.56 4.51 25.55 4.50 25.56 4.50
544 544 2.152 23.76 6.85 23.74 6.90 23.75 6.84 23.74 6.90 23.76 6.88
544 548 0.259 14.73 2.87 14.71 2.88 14.68 2.85 14.70 2.90 14.67 2.87
544 548 0.080 10.21 1.30 10.20 1.35 10.21 1.30 10.20 1.29 10.19 1.34
544 568 0.791 17.25 3.44 17.25 3.45 17.24 3.48 17.24 3.47 17.25 3.44
544 580 0.748 18.23 3.74 18.22 3.79 18.21 3.75 18.21 3.75 18.22 3.76
544 588 0.257 15.30 2.14 15.34 2.13 15.35 2.13 15.34 2.15 15.35 2.13
552 536 0.168 9.95 2.25 9.94 2.24 9.97 2.24 9.97 2.25 9.96 2.26
560 512 0.019 6.32 0.75 6.30 0.80 6.33 0.76 6.32 0.76 6.31 0.79
560 536 4.383 34.63 6.17 34.64 6.15 34.64 6.20 34.62 6.19 34.63 6.21
568 504 1.001 20.80 3.18 20.80 3.19 20.19 3.13 20.80 3.10 20.80 3.20
568 508 1.838 27.19 5.10 27.17 5.17 27.16 5.16 27.18 5.10 27.18 5.07
568 516 0.108 10.36 1.10 10.34 1.20 10.34 1.17 10.35 1.20 10.35 1.20
568 524 0.455 14.28 3.28 14.29 3.34 14.26 3.32 14.28 3.32 14.27 3.31
568 528 1.246 17.25 5.70 17.26 5.74 17.26 5.72 17.24 5.72 17.26 5.72
568 528 0.508 15.95 2.70 15.95 2.72 15.94 2.70 15.94 2.74 15.95 2.75
568 532 0.102 10.55 1.68 10.60 1.65 10.59 1.72 10.59 1.70 10.55 1.72
568 538 0.069 10.14 0.99 10.14 0.98 10.13 1.00 10.13 0.99 10.11 1.00
568 540 0.111 9.95 1.84 10.00 1.86 10.00 1.83 10.00 1.85 9.99 1.86
568 540 0.519 16.17 3.90 16.17 4.91 16.16 3.89 16.17 3.90 16.16 3.90
568 548 0.163 15.00 2.19 14.99 2.20 15.00 2.19 15.00 2.19 15.00 2.20
568 548 0.186 18.03 2.70 18.84 2.64 18.84 2.64 18.81 2.70 18.84 2.75
568 548 0.599 15.00 2.19 14.99 2.20 15.00 2.19 15.00 2.19 15.00 2.20
568 548 0.599 18.83 2.70 18.84 2.64 18.84 2.64 18.81 2.70 18.84 2.75
568 552 0.510 17.55 3.50 17.54 3.59 17.55 3.55 17.56 3.56 17.55 3.55
568 552 0.510 15.65 3.47 15.65 3.48 16.66 3.51 15.66 3.50 15.66 3.49
568 552 0.719 17.55 3.50 17.54 3.59 17.55 3.55 17.56 3.56 17.55 3.55
568 552 0.719 15.65 3.47 15.65 3.48 16.66 3.51 15.66 3.50 15.66 3.49
568 568 0.335 16.11 1.94 16.12 1.95 16.10 1.94 16.11 1.95 16.11 1.95
568 576 1.236 21.17 4.70 21.20 4.65 21.20 4.61 21.20 4.65 21.20 4.74
568 576 1.089 22.20 4.90 22.21 5.00 22.20 5.03 22.19 5.00 22.20 4.95
568 588 0.219 15.51 1.74 15.50 1.75 15.50 1.72 15.50 1.72 15.50 1.74
576 548 0.418 17.23 2.98 17.21 3.00 17.24 3.05 17.21 3.04 17.21 3.02
584 480 1.135 24.65 3.18 24.65 3.15 24.64 3.15 24.65 3.15 24.66 3.15
584 492 0.118 9.97 2.16 9.97 2.17 9.95 2.16 9.95 2.16 9.95 2.17
584 500 0.089 11.85 1.10 11.82 1.13 11.85 1.12 11.84 1.14 11.83 1.13
584 512 0.193 14.10 1.74 14.10 1.78 14.10 1.75 14.10 1.75 14.10 1.77
584 512 0.419 15.16 2.47 15.18 2.50 15.15 2.55 15.18 2.55 15.16 2.53
584 524 0.327 17.91 2.88 17.90 2.90 17.90 2.85 17.90 2.90 17.90 3.89
584 528 0.188 15.55 1.90 15.62 1.90 15.62 1.90 15.63 1.90 15.63 1.91
584 532 0.898 26.19 3.14 26.20 3.15 26.18 3.15 26.20 3.15 26.18 3.15
584 536 0.152 12.95 1.99 12.96 2.00 12.94 1.99 12.96 2.00 12.94 2.00
584 536 0.097 10.30 1.68 10.30 1.65 10.30 1.75 10.29 1.71 10.29 1.72
584 540 0.606 20.11 4.10 20.25 4.05 20.28 4.12 20.30 4.05 20.29 4.30
584 548 2.822 26.65 6.66 26.70 6.76 26.69 6.70 26.69 6.70 26.68 6.76
584 548 0.339 16.49 2.75 16.50 2.75 16.50 2.75 16.47 2.78 16.49 2.75
592 504 3.030 28.65 5.15 28.72 5.35 28.72 5.18 28.70 5.30 28.70 5.30
592 508 1.992 26.05 4.30 26.05 4.29 26.05 4.26 26.05 4.28 26.05 4.27
592 512 0.295 11.09 3.35 11.10 3.35 11.10 3.34 11.09 3.39 11.10 3.37
592 512 0.018 5.65 0.82 5.66 0.80 5.65 0.82 5.66 0.80 5.66 0.83
592 516 0.303 12.75 2.98 12.74 3.01 12.73 2.98 12.79 3.01 12.75 3.00
592 520 0.155 10.66 1.52 10.79 1.52 10.80 1.52 10.80 1.55 10.79 1.55
592 524 6.090 33.05 6.99 33.05 6.95 33.05 7.00 33.05 6.95 33.05 7.02
592 528 1.356 23.45 3.70 23.44 3.74 23.43 3.73 23.44 3.75 23.40 3.79
592 532 10.359 38.42 14.69 38.42 15.25 38.41 15.20 38.41 15.15 38.40 15.55
592 536 1.936 28.20 6.79 28.20 6.79 28.19 6.78 28.19 6.78 28.18 6.77
592 540 0.066 9.85 1.25 9.85 1.31 9.84 1.30 9.85 1.31 9.85 1.30
592 540 0.041 7.98 0.91 8.00 0.94 8.01 0.92 8.02 0.93 8.04 0.94
592 540 0.099 11.17 1.30 11.16 1.30 11.16 1.30 11.15 1.29 11.14 1.30
592 548 1.280 21.45 3.30 21.50 3.33 21.50 3.36 21.50 3.34 21.50 3.34
592 548 0.134 10.40 1.61 10.41 1.55 10.40 1.62 10.38 1.60 10.40 1.50
592 564 0.427 19.45 2.45 19.44 2.45 19.45 2.43 19.44 2.44 19.44 2.45
592 576 0.068 8.64 1.74 8.65 1.74 8.62 1.73 8.60 1.72 8.64 1.74
600 492 1.011 22.09 3.40 22.10 3.40 22.09 3.42 22.10 3.40 22.10 3.44

600 492 0.543 18.74 2.80 18.72 2.77 18.71 2.79 18.72 2.80 18.71 2.80
 600 500 0.729 17.79 4.01 17.76 4.00 17.80 4.00 17.80 3.99 17.79 4.00
 600 544 0.046 8.85 1.25 8.87 1.26 8.90 1.25 8.89 1.24 8.90 1.25
 604 492 0.259 17.45 1.50 17.46 1.54 17.45 1.54 17.44 1.55 17.45 1.54
 604 496 0.203 15.82 2.02 15.84 2.02 15.80 2.02 15.83 2.02 15.83 2.02
 608 480 0.211 13.49 3.20 13.46 3.24 13.48 3.21 13.47 3.20 13.48 3.20
 608 484 0.894 19.01 4.55 19.04 4.44 19.05 4.50 19.15 4.45 19.05 4.40
 608 496 1.187 23.30 4.60 23.30 4.69 23.28 4.65 23.30 4.62 23.29 4.64
 608 500 0.764 24.35 3.00 24.35 3.01 24.35 3.02 24.34 3.02 24.35 3.02
 608 512 0.575 16.57 3.75 16.57 3.75 16.60 3.77 16.58 3.74 16.60 3.75
 608 532 2.894 23.50 6.62 23.50 6.76 23.45 6.65 23.50 6.75 23.50 6.70
 608 536 0.829 19.76 3.44 19.76 3.42 19.77 3.45 19.78 3.48 19.78 3.45
 608 540 0.400 18.60 2.65 18.60 2.64 18.60 2.65 18.60 2.65 18.57 2.65
 608 540 1.173 22.05 2.95 22.05 2.95 22.04 3.00 22.02 2.95 22.04 2.94
 616 480 3.048 25.80 8.35 25.80 8.30 25.80 8.36 25.81 8.38 25.80 8.34
 616 484 0.015 5.85 0.60 5.81 0.60 5.75 0.59 5.75 0.59 5.75 0.59
 616 504 0.937 20.15 5.47 20.15 5.48 20.15 5.45 20.14 5.50 20.15 5.55
 616 508 0.503 19.57 2.80 19.59 2.77 19.60 2.76 19.59 2.80 19.59 2.77
 616 512 1.478 22.12 5.20 22.10 5.15 22.15 5.20 22.12 5.18 22.12 5.17
 616 512 0.590 18.34 3.65 18.32 3.65 18.34 3.66 18.32 3.70 18.33 3.66
 616 544 0.441 15.35 3.94 15.35 3.92 15.36 3.93 15.35 3.96 15.36 3.94
 616 544 0.099 11.15 1.18 11.17 1.20 11.17 1.20 11.16 1.20 11.16 1.19
 616 548 0.143 13.74 1.56 13.74 1.55 13.70 1.56 13.75 1.55 13.74 1.56
 616 548 0.091 9.20 1.95 9.18 1.98 9.20 1.95 9.20 2.00 9.19 1.95
 616 556 0.104 9.70 1.89 9.76 1.85 9.75 1.90 9.75 1.88 9.75 1.86
 616 560 0.312 18.10 2.30 18.10 2.34 18.12 2.32 18.12 2.32 18.11 2.33
 616 568 0.422 15.99 2.95 15.96 2.96 15.99 2.95 15.99 2.96 15.97 2.96
 616 572 2.247 26.45 5.60 26.46 5.60 26.44 5.60 26.45 5.61 26.45 5.60
 624 496 1.243 17.39 4.65 17.35 4.70 17.36 4.69 17.38 4.70 17.35 4.76
 624 504 0.461 15.10 3.01 15.10 3.04 15.11 3.11 15.10 3.10 15.10 3.12
 624 512 0.359 17.70 2.40 17.68 2.40 17.68 2.38 17.66 2.39 17.66 2.41
 632 488 1.170 20.25 4.63 20.21 4.65 20.25 4.62 20.25 4.66 20.25 4.65
 632 496 0.154 10.40 1.05 10.39 1.06 10.40 1.05 10.40 1.06 10.40 1.05
 632 512 0.926 21.28 3.98 21.26 4.20 21.25 4.15 21.26 4.21 21.26 4.15
 632 524 4.785 31.85 8.59 31.85 8.62 31.86 8.61 31.86 8.68 31.85 8.63
 640 480 0.247 12.66 2.26 12.66 2.25 12.65 2.26 12.67 2.25 12.68 2.26
 640 496 1.668 23.66 3.85 23.68 3.83 23.69 3.85 23.68 3.86 23.65 3.86

BIOGRAPHICAL NOTE

Patrice Amy Teltser was born, August 11, 1954, in Orange, New Jersey to Bernice and Edward Teltser. She was raised in Millburn and Short Hills, New Jersey and graduated from Millburn High School in 1972. From 1972 to 1974 Patrice attended the University of Rochester in Rochester, New York. She continued her undergraduate studies at Brandeis University in Waltham, Massachusetts where she graduated in 1976 with a Bachelors of Arts (cum laude) in Anthropology. Patrice entered the graduate program at the University of Washington in 1979.