

## *Chapter 14*

# *Data Accuracy and Precision: A Comparison of the HOPEBIOARCH Data Base to N. Greber's and T. Lloyd's Data Bases*

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Accurate reconstruction of the social and cultural lives of Ohio Hopewell peoples requires sound bioarchaeological data. Assessing the quality of the information presented in the HOPEBIOARCH data base is thus a necessary precursor to using it successfully to search for and analyze socially and culturally significant material patterns.

There are at least four essential domains from which inaccuracies, biases, and gaps in the information in the data base have arisen: field sampling, field and laboratory observation and reporting, curation, and data coding. This chapter briefly overviews the first three of these problematic areas, enumerating many of the specific factors of which a researcher must be aware when working with the HOPEBIOARCH data base. The chapter then goes on to consider in detail the fourth area of concern – quality of data coding based on extant sources of information. Several potential sources of variation in the way the information might have been coded by different persons are discussed. The actual magnitude of this inter-observer

variation is then estimated by comparing the HOPEBIOARCH data set to data sets previously assembled by N. Greber (1976) and T. Lloyd (n.d.) for the Seip-Pricer mound, the Ater Mound, the Burial Place within the Great Enclosure of the Turner earthwork, and mounds within the Hopewell earthwork. In this way, the precision or replicability of our coding of extant information into the HOPEBIOARCH data set, as opposed to the accuracy and completeness of the base information, itself, is assessed.

### **FIELD SAMPLING**

The issue of field sampling involves the kinds of Ohio Hopewell ceremonial centers and the portions of them that were selected or not for excavation and reporting by previous researchers. The implications of extant field samples and coverage for reconstructing Hopewell social life have been addressed in detail by Carr (2005a:271–273, 277–280, 293–304, 321–323). In brief, within each of

the major regions of Hopewellian occupation in Ohio, a number of social and ritual patterns led to the construction of a complicated ceremonial and mortuary landscape that usually cannot be characterized adequately by the excavation of only a single Ohio Hopewell ceremonial center or mound, or a portion of one. This is true even for a large earthwork like Seip or Hopewell, or a large mound like the Pricer mound at Seip or Mound 25 at Hopewell. The complicating social and ritual patterns that make this the case include: functional differentiation of Hopewellian ceremonial centers, the use of multiple centers by a single society for burying its different social segments, the use of a single center by multiple societies for their burial programs, functional differentiation of mounds within a center, the use of multiple mounds within a center by a single society for burying its different social segments, and the use of a single mound by multiple societies to bury their dead (Chapter 3; Carr 2005a; Ruby et al. 2005). To the extent that various mounds of specific social and ritual functions, or portions of them, have not been excavated in a region, social analysis of extant bioarchaeological remains may be incomplete or skewed. Lists of the mounds and parts of mounds that have and have not been excavated at each site coded in the HOPEBIOARCH data base are presented in detail in the site descriptions in Chapter 7.

### **FIELD AND LABORATORY OBSERVATIONS**

Inaccuracies, biases, and gaps in field and laboratory observations and reports of Ohio Hopewell ceremonial sites comprise a second problematic area that affects the quality of information in the HOPEBIOARCH data base. These difficulties are a product of primarily nascent archaeological practice during the 1880s–1930s, when many of the sites were explored. Observations made standardly in the field and lab and reported today were noted differentially then, both within and among excavators and sites. Internal mound proveniences of graves and their associated human and artifactual remains, the

age and sex of skeletons, forms of tombs, counts of artifacts within graves, positions of artifacts within graves, and the forms of artifacts were each recorded with varying degrees of precision, from quite good to entirely missing information. Archaic names for some artifact classes, which preclude their certain identification in modern terms, are also problematic. These issues are discussed in Chapter 1 (Empirical Significance of the Data Bases). Chapter 7 provides for each site in the HOPEBIOARCH data base subjective evaluations of the adequacy of reporting of age and sex information on human remains, the stratigraphic and horizontal locations of human remains and artifacts, and the positions of artifacts within graves.

### **CURATION IN MUSEUMS**

A third arena that has affected the information reported in the HOPEBIOARCH data base is constituted by a variety of curatorial problems. Incomplete information in the data base can be attributed in part to missing field notes and maps; incomplete or missing museum accession records; human remains that were not brought in from the field, were commingled when stored, were not stored by grave, and/or were deaccessioned from museums at a later time; pottery, prismatic blades, and other utilitarian artifacts that were left in the field; and artifacts that were not stored by grave. These difficulties are reviewed in Chapter 1 (Empirical Significance of the Data Bases).

Problems in field and laboratory observation and recording and in museum curation were routinely uncovered while we constructed the HOPEBIOARCH data base. To the extent possible, these issues were amended. Our methods of detecting and amending the problems included critically comparing basic observations to each other, looking for inconsistencies among observations made by the same and different researchers, noting patterned biases of given researchers, and to a degree, re-examining archaeological remains in museum collections. Some additional increase in the accuracy and specificity of certain categories in the HOPEBIOARCH data base could have

been reaped had we examined all of the extant archaeological remains from all sites in the data base in relation to field notes and publications; however, available resources did not allow us this level of cross-checking. The various means that we used to critically evaluate Ohio Hopewell archaeological data while constructing the HOPEBIOARCH data base were pioneered by Greber (1976; Greber and Ruhl 1989) as she assembled large mortuary data sets on the sites of Seip, Turner, Ater, and Hopewell.

The forensics-like approach that we used to discover empirical problems with burial assemblages and to reconstruct more accurate pictures of them is illustrated by our probing into the frequency of log tombs in Mound 25 of the Hopewell earthwork. From this work, we inferred that the number of individuals recorded to have been buried in log tombs in Mound 25 is much too low, as a result of their having been underreported by Moorehead. Moorehead (1891, 1922) reported log enclosures for only 11 % of the 47 individuals that he excavated from Mound 25. In contrast, Shetrone (1922, 1923, 1924, 1925, 1926a) observed log enclosures or a log-walled vault for 72 % of the 54 individuals that he recovered from the mound. The low percentage of log enclosures reported by Moorehead compared to Shetrone almost certainly does not result from merely the different treatment of individuals in the different portions of Mound 25 dug by the two excavators. Moorehead sampled throughout the mound with a series of “cuts” or trenches distributed discontinuously along its length. Shetrone later dug the interstitial areas of the mound. Through comparisons of this kind and others, errors in reported field and laboratory observations were discovered. In this case, the missing data on log tombs could not be recovered for individual graves. In other cases, such as differences between field notes, published reports, and/or museum accession records and collections in the artifacts attributed to a grave, the inaccuracies could sometimes be traced to their origin with greater specificity and amended. Field photographs of graves, when they existed, were helpful in this regard.

A good example of how cross-checking sources of information led to improvements

in the documentation of a specific provenience is found in Katharine Ruhl’s estimation of the number of ear spoons contained in Altar 1 of Mound 25 at the Hopewell site. W. K. Moorehead, who had excavated portions of Mound 25, including Altar 1, as part of his 1891–1892 exploration of the site (Moorehead 1922:116), reported that “While no one has yet counted the multitudinous objects in the Field Museum collection, it is estimated that there are about two thousand one hundred copper ear ornaments or busks in storage” – most of which would have come from the massive deposit of ear spoons in Altar 1. Moorehead (1922:113) gave no estimate of the number of ear spoons specifically found in Altar 1 in his published report on the Hopewell site. In contrast, Charles Willoughby, who between 1892 and 1894 carefully analyzed and wrote a 300 page manuscript on the materials that Moorehead had excavated, said that Altar 1 contained “over 500 ear ornaments” (Greber and Ruhl 1989:77). The difference between Moorehead’s and Willoughby’s estimates is, of course, significant: the number of pairs of ear spoons placed in the ceremonial deposit implies the likely number of persons who gathered for a ceremony and affirmed their social bonds by mutually decommissioning ear spoons that marked their common membership in a sodality (Carr et al. 2005). Ruhl (personal communication 2004) resolved the difference and estimated that Altar 1 had held about 1000 ear spoons based on her confirmation of about 700 ear spoons in the Field Museum repository for Mound 25, many tens of ear spoons from Mound 25 at other institutions to where they had been traded, and her observation that not all of the ear spoons from Altar 1 were apparently recovered from the field because they were embedded in the Altar. In Ruhl’s reconstruction, Willoughby’s low count relative to her own possibly results from his not having included ear spoons left in the Altar, and possibly from his not having been sent the entirety of the Mound 25 holdings at the Field Museum when he inventoried and analyzed them at Harvard. Consideration of the history of Ohio Hopewell bioarchaeological collections in curating institutions is key to evaluating the

collections' integrity and the value of reports developed from them.

## DATA CODING

The fourth area in which inaccuracies, biases, and gaps in the HOPEBIOARCH data base could have arisen is the manner of coding of basic information, including field notes, field maps, field photographs, museum accession records and catalogs, correspondence, newspaper clippings, and paraprofessional and professional publications. Several factors could have led to our having coded basic information differently, or with different thoroughness, than another researcher might have. First, our interpretation of descriptions and comments made about bioarchaeological records in the basic resources, which led to our identifying and coding specific classes of artifacts, bodily attributes, tomb forms, and associations, might differ from another person's reading of the basic resources. For example, an artifact found in a double burial might be attributed to one of the individuals by one researcher and the other individual by another researcher. Burial 10 under the Seip-Pricer mound provides a case in point. The burial included a cremated adult and a cremated child. We did not attribute any of the artifacts in the burial to the adult or the child, even though a number of the artifacts (a headplate, a breastplate, two earspools) marked roles that only an adult would normally be expected to hold, and even though the artifact classes were almost always or always found with adults in the Scioto-Paint Creek area. We did not wish to bring sociological assumptions into the basic data. Another researcher, looking at the strong adult association of those artifact classes over the region might argue it acceptable to link the artifacts with the adult.

Second, the relative reliability and weight that we have attributed to various kinds of basic resources (e.g., field notes versus published reports), and to certain field and laboratory researchers in coding extant information, might differ from another person examining the same material.

Third, in our coding of data, direct examination of artifacts in museum collections in order to cross-check written records and to gain supplemental information played a relatively minor role and was focused on only certain artifact classes (copper celts, breastplates, headplates, bear canines). In contrast, Greber (1976) spent considerable time with artifact collections in constructing her data base, and Lloyd (n.d.) spent only a few days in collections verifying his data base, which was constructed almost entirely from published site reports and unpublished field notes and maps.

Fourth, our classifications of artifacts, bodily attributes, and tomb forms – although based largely on terms used directly in the primary sources of information – might differ from those another researcher might use. In turn, such differences could lead to different human remains and artifacts being grouped differently, counted differently, and associated differently. For example, the HOPEBIOARCH data base codes body treatment into six categories: articulated or largely articulated inhumation, charred inhumation, probably charred inhumation, partial cremation, half cremated/half inhumed, and cremation. Lloyd's data set for the Hopewell site omits the category of partial cremation, and apparently includes individuals treated in this way in his charred category. The result is two somewhat different categorizations of individuals by their body treatment, with potential consequences for social interpretations.

Fifth, the classes we used to code artifacts, bodily variables, and tomb forms reflect the goals we had when we began the project, and our goals might not be fully shared by others interested in Ohio Hopewell mortuary records. Specifically, we defined artifact classes and tomb forms with two most fundamental aims in mind: to investigate the active, on-the-ground, social and ritual roles of individuals in order to describe the dynamics of Hopewell social organization (Chapter 4, *The Concept of the Social Role*; Carr and Case 2005a:45–47), and to study religious concepts and symbolism in Hopewell culture. Thus, the classification used in the HOPEBIOARCH data base focuses on the specific uses of artifacts in ceremonial or common contexts, and on the potentially

symbolic qualities of artifact and tomb forms and materials. In contrast, Greber's goals were to define broad, socially recognized groups of persons, and their horizontal and vertical relationships to one another, in an attempt to construct a group-based description of the static social structures of Ohio Hopewell peoples. She was also interested in measuring the overall, abstract, complexity of single Ohio Hopewellian societies and comparing them for their assessed complexity (Greber 1976:2, 5–7, 1979a:35, 37, 1979b:36; see also Carr 2005a:269–271 for a broader discussion of Greber's paradigm, goals, approach in her mortuary studies). Thus, Greber's classification of artifacts, bodily attributes, and tomb forms in her data base is less specific, more formal-descriptive, and less functional than the classification in the HOPEBIOARCH data base.

Despite all of these potential causes of variation in how basic sources of information might be coded in a data base, the concordance between the HOPEBIOARCH data base and the data bases constructed by Greber or Lloyd for the Seip-Pricer mound, the Ater Mound, the Burial Place in Turner, and the Hopewell site is remarkably high. Where equivalencies can be drawn between the HOPEBIOARCH data set and Greber's and Lloyd's, agreement (precision) falls largely in the 90%–100% range.

The remainder of this chapter presents the specific data base comparisons that led to this conclusion. The concordance between the HOPEBIOARCH data base and Greber's data sets for the Seip-Pricer mound, the Ater Mound, and the Burial Place within the Great Enclosure of the Turner earthwork is explored first. This is followed by a study of the agreement between the HOPEBIOARCH data base and Lloyd's data base for mounds within the Hopewell site.

### **SEIP-PRICER MOUND, ATER MOUND, AND THE TURNER BURIAL PLACE**

Four kinds of information are compared here between Greber's mortuary data sets for the Seip-Pricer mound, Ater Mound, and Turner Burial Place within the Great Enclosure of the

Turner earthwork (Greber 1976:Tables 1, 2, 3) and the HOPEBIOARCH data base for these sites (Appendix 6.1). Comparisons are made for: (1) the artifact types present with an individual, considering only those individuals shared in common by the two data bases; (2) the counts of given artifact types found with an individual, considering only those individuals shared in common by the two data bases, having the given artifact type, and having count information for that type; (3) the materials of given artifact types found with an individual, considering only those individuals shared in common by the two data bases, having the given artifact type, and having material information for that type; and (4) bodily variables and tomb form attributes for an individual, considering only those individuals shared in common by the two data bases and having information on that variable or attribute.

The comparisons presented here, and in the subsequent section on the Hopewell site, were made using a smaller version of the HOPEBIOARCH data base that was extant in 2002, as a part of the analyses undertaken for writing *Gathering Hopewell* (Carr and Case 2005c). The older version of the data base had only 116 variables that pertain to the specifics of body treatment, tomb form and orientation, and grave goods, whereas the current version has 145 (plus two overview variables on grave goods). Aside from involving fewer variables, 16 of the 116 variables in the older version of the HOPEBIOARCH data base analyzed here differ from variables in the current version in other ways. These differences are described in general terms in Chapter 12, Note 2, and detailed in Table 14.1, Note 2, below.

### **Methods**

To make the four kinds of comparisons between Greber's data set and the 2002 version of the HOPEBIOARCH data base required first constructing a table of equivalencies between the mortuary variables in her data set and ours. Defining equivalencies was necessary because Greber's data set and the HOPEBIOARCH data base sometimes use different terms for the same artifact classes and tomb forms, because

















Table 14.1. (continued)

Greber's Variables	gorget/pendant including pierced jaw/canine	material unmodified (bone/teeth) <sup>1</sup>	beads (loose)	beads with hole	beads (unspecified)	fearspool	platform pipe (plain)	stone celt/axe/adze	iron celt/axe/adze	copper celt/axe/adze	material unmodified (except bone/teeth)	chunks/hunks/sheets/chips	plating	raw	hemispheres	awl	spoon	points/knives	beads set	bracelet	rectangular plate	conjoined tube
Data Base Variables <sup>2</sup>																						
floor preparation																						
cover preparation																						
wall preparation																						
body wrap																						
platform																						

<sup>1</sup> Parentheses within the variable title indicate that only the specific artifact type or material mentioned was used to match between Greber's data base and the HOPEBIOARCH data base.

<sup>2</sup> See the text of Chapter 14, Note 2 in Chapter 12, and Notes 3–18, below, for differences between some variables listed here and those in the HOPEBIOARCH data base.

<sup>3</sup> This variable in the old version of the HOPEBIOARCH data base is now a variable state (CP) within the FancyPt variable in the current version of the data base.

<sup>4</sup> This variable in the old version of the HOPEBIOARCH data base is now three variable states (MC, MS, A) within the MicaSheet variable in the current version of the data base.

<sup>5</sup> This variable in the old version of the HOPEBIOARCH data base recorded two large, circular, mandala-like stone disks that were placed in the center of each of Offering 1 and Deposit 2 under Mound 17 at the Hopewell site. The two items are recorded in the MiscUtilFancyObj variable of the current version of the data base.

<sup>6</sup> This variable in the old version of the HOPEBIOARCH data base is now a variable state (RG) within the MiscCPObj variable in the current version of the data base.

<sup>7</sup> This variable in the old version of the HOPEBIOARCH data base is now divided among four variables and some of their variable states – MiscUtilFancyObj (descriptions), MiscCPObj (OR, ORS), MiscShellObj (OR), and MiscStone (ORSL) – in the current version of the data base.

<sup>8</sup> This variable in the old version of the HOPEBIOARCH data base is now divided among the variable states (all or some) in the variables Container (all), NeedleBodkin (all), MiscLRTool (all), MiscCPTool (all), MiscNMTool (all), MiscCPObj (all), MiscShellObj (FL, MS, PC, RS, SL), MiscStone (BLS, CLS, DIS, DSK, ELG, LID, A, E), MiscUtilFancyObj (descriptions), and FlintRawScrap (BLK, COR, A, B) in the current version of the data base.

<sup>9</sup> This variable in the old version of the HOPEBIOARCH data base is now divided among the variables OtherFlintBifaces (PK, SB, UB, A, B, C) and BoneAntPointKnife in the current version of the data base.

<sup>10</sup> This variable in the old version of the HOPEBIOARCH data base is now divided among the variables OtherFlintBifaces (PK, SB, UB, A, B, C) and BoneAntPointKnife in the current version of the data base.

<sup>11</sup> This variable in the old version of the HOPEBIOARCH data base is now divided among the variables DeerPP (EAN) and GoatHorn in the current version of the data base.

<sup>12</sup> This variable in the old version of the HOPEBIOARCH data base is now included in TrophSKJw in the current version of the data base.

<sup>13</sup> This variable in the old version of the HOPEBIOARCH data base has been renamed MisShellObj in the current version of the data base.

<sup>14</sup> This variable in the old version of the HOPEBIOARCH data base is now seven variable states (CHK, CHP, DEB, FLK, FRG, A, B) within the MiscObsid variable in the current version of the data base.

<sup>15</sup> This variable in the old version of the HOPEBIOARCH data base is now divided among the variables FlintRawScrap (CHK, CHP, FLK, PEC, B) and MiscStone (FKC) in the current version of the data base.

<sup>16</sup> This variable in the old version of the HOPEBIOARCH data base is now a variable state (Q) within the QuarColorPeb variable in the current version of the data base.

<sup>17</sup> This variable in the old version of the HOPEBIOARCH data base is now a variable state (MI) within the FancyPt variable in the current version of the data base.

<sup>18</sup> This variable in the old version of the HOPEBIOARCH data base is now four variable states (RC, RS, RH, RU) within the Pendant/Gorget variable in the current version of the data base.

headdress	geometric forms (includes crescents)	effigy human (whole or part)	effigy animal (whole or part)	platform pipe	buttons/button covers	container (clay)	container (marine shell)	hammerstone	comb	container (other than clay and marine shell)	mirror	needles	drill	nonplatform pipe	pins	bands	blades	flake	probable ornament	Inhum	Head	Material	Dtlcst	Const
																						X	X	X
																						X	X	X
																						X	X	X
																						X	X	X

Greber’s data set does not include definitions of its mortuary variables, because Greber’s data set has variables that often are more generalized than those in the HOPEBIOARCH data base, and because Greber’s data set is more hierarchically structured than the HOPEBIOARCH data base. Table 14.1 lists the equivalencies we defined for artifact classes, tomb forms, and body treatment. Demographic variables (age and sex of an individual, minimum number of persons in an individual’s grave) are not

listed because they were directly comparable. Problems of restricted scope in defining equivalencies are discussed in Note 1.<sup>1</sup>

Tables 14.2–14.4 summarize the number of equivalencies defined between the two data bases for artifact classes, tomb forms, body treatment, and demographic characteristics (age, sex, MNI in a grave). In all, 38 equivalencies were found. Greber’s data base has only two mortuary variables that are not in the 2002 version of the HOPEBIOARCH data base, and

**Table 14.2. Number of Equivalencies Defined Between N. Greber’s Data Set and the HOPEBIOARCH Data Base, for Demographic Variables**

Data set	Ater	Seip	Turner
Equivalencies	3	3	3
Greber +, HOPEBIOARCH –	0	0	0
Greber –, HOPEBIOARCH +	0	0	0

HOPEBIOARCH variables: MNI, SEX, Age; Greber’s variables: GRCT, SEX, CD Age

**Table 14.3. Number of Equivalencies Defined Between N. Greber’s Data Set and the HOPEBIOARCH Data Base, for Tomb Form, Grave Form, and Body Treatment Variables**

Data Set	Ater	Seip	Turner
Equivalencies	3	3	6
Greber +, HOPEBIOARCH –	0	0	1
Greber –, HOPEBIOARCH +	5	5	6

HOPEBIOARCH variables: body treatment, grave orientation, floor prep, cover prep, wall prep, body wrap, platform; Greber’s variables: inhum, head, material, dtlcst, const

**Table 14.4. Number of Equivalencies Defined Between N. Greber's Data Set and the HOPEBIOARCH Data Base, for Artifact Classes**

Data set	Ater	Seip	Turner
Equivalencies	32	32	32
Greber +, HOPEBIOARCH –	1	1	1
Greber –, HOPEBIOARCH +	37	37	37

Variables: see Table 14.1.

the HOPEBIOARCH data base has 78 variables that are not in Greber's data base.

The degree of concordance of the two data bases was assessed using one or the other of two kinds of similarity coefficients, depending on the nature of the mortuary variable being assessed. When considering the presence or absence of an artifact type, a simple matching coefficient was used:

$$S = \left( \frac{a + d}{a + b + c + d} \right) \times 100\%$$

where  $S$  is the simple matching coefficient, which ranges between 0 and 100 % agreement,  $a$  is the number of individuals for which Greber's and our data bases agree that the artifact type is present,  $d$  is the number of individuals for which Greber's and our data bases agree that the artifact type is absent,  $b$  is the number of individuals for which Greber's data set records the artifact type as present but the HOPEBIOARCH data base records the artifact type as absent, and  $c$  is the number of individuals for which Greber's data set records the artifact type as absent but the HOPEBIOARCH data base records the artifact type as present.

When assessing the material of a given artifact type that occurred with an individual, using only those individuals having that artifact type in their grave, a modified simple matching coefficient was used:

$$S_{\text{modified}} = \left( \frac{a}{a + b} \right) \times 100\%$$

where  $S$  is the modified similarity coefficient, which ranges between 0 and 100 % agreement,  $a$  is the number of individuals for which Greber's and our data bases agree on the material of which the artifact is made, and  $b$  is the number

of individuals for which Greber's and our data bases disagree on the material of which the artifact is made.

The modified simple matching coefficient was also used when the counts of a given artifact type that was recorded to have occurred with an individual are reported in both data sets, the material(s) of the tomb of an individual are recorded in both data sets, the age or sex of an individual is cited in both data sets, and the minimum number of individuals (MNI) present in an individual's grave is noted in both data sets. For example, evaluating the two data bases for correspondence in the sexes of those individuals for whom sex was recorded in both data bases,  $a$  is the number of individuals for which Greber's and our data bases agree on the sex of the individual, and  $b$  is the number of individuals for which Greber's and our data bases disagree on the sex of the individual.

Beyond these uniformly applied measures, some context-specific rules for comparing the two data bases had to be devised, in order to accommodate complexities and idiosyncracies posed by particular graves. These particular rules are described in Note 2.<sup>2</sup>

## Results

Appendices 14.1–14.3 summarize, respectively for the sites of Seip, Ater, and Turner, areas of agreement and disagreement between Greber's data set and the HOPEBIOARCH data base for the presence of given artifact types with an individual, considering only those individuals shared in common by the two data bases. Appendices 14.4–14.6 show, respectively for the sites of Seip, Ater, and Turner, areas of concordance and discordance between the two data sets for counts of given artifact types found with an individual,

Table 14.5. Agreement Between N. Greber's (1976) Data Set and the HOPEBIOARCH Data Base

Kind of Comparison	Ater (%)	Seip (%)	Turner (%)
Artifact type presence	mean: 98.3 range: 86–100	mean: 95.8 range: 94–100	mean: 97.7 range: 82–100
Artifact type count	mean: 84.5 range: 0–100	mean: 94.9 range: 63–100	mean: 87.8 range: 0–100
Artifact type material	mean: 88.1 range: 50–100	mean: 98.5 range: 74–100	mean: 96.9 range: 75–100
Bodily variables & tomb forms	mean: 76.4 range: 43–100	mean: 88.4 range: 74–100	mean: 76.6 range: 40–100
Mortuary variables with low correspondence (< 75 % agreement)	number of beads (67), number of awls (50), number of ocean shell containers (0), earspool material (71), bead material (50), necklace /bracelet material (50), geometrics material (0), age (55), tomb form (43)	number of pendants/gorgets (63), age (74)	number of beads (67), number of points/knives (0), sex (40), age (64)



considering only those individuals shared in common by the two data bases, having the given artifact type, and having count information for that type. Appendices 14.7–14.9 present, respectively for the sites of Seip, Ater, and Turner, areas of agreement and disagreement between the two data sets for the materials of given artifact types found with an individual, considering only those individuals shared in common by the two data bases, having the given artifact type, and having material information for that type. Tomb materials are also considered. Appendices 14.10–14.12 summarize, respectively for the sites of Seip, Ater, and Turner, matches and mismatches between the two data sets in bodily variables for an individual, considering only those individuals shared in common by the two data bases and having information on that variable.

Table 14.5 summarizes the results displayed in Appendices 14.1–14.12. Levels of agreement between the two data bases are shown separately for each of the three sites, for the four separate comparisons of artifact type presence, artifact type count, artifact type material, and bodily variables and tomb forms. Also listed by site are the mortuary variables that are least concordant between the two data sets.

Agreement between the two data bases is excellent for the presence of artifact types with individuals. Average correspondence for the presence of artifact types ranges between 98.3% and 95.8% across the three sites, with median correspondence at 100% for each site. Correspondence for the material of artifact types present is somewhat lower, with the average ranging between 98.5% and 88.1% across the sites, and again with median correspondence at 100% for each of the sites. Agreement for the counts of artifact types is again lower, with the average ranging between 94.9% and 84.5% among the three sites, yet with median correspondence at 100% for each of the sites. Least concordant between the two data bases are the bodily variables and tomb forms. Their average agreements range between 88.4% and 76.4% for the three sites, with median correspondence only between 87% and 79% across the sites.

The two data bases compare best for the site of Seip, with an average agreement of 96.5%

across all mortuary variables, only slightly less well for Turner, with an average agreement of 92.3% across variables, and least well for Ater with an average agreement of 87.7% across variables. Following the same pattern, Seip has only two mortuary variables with a low percent agreement (< 75% agreement), Turner has four, and Ater has nine. The lesser concordance between the two data sets for Ater possibly reflects the fact that a descriptive report was never written and published for the site, whereas reports were written and published for Seip and Turner. Field notes, compared to a publication, can require more interpretation of basic field observations on the part of a researcher using the notes years or decades later. Field notes also can lend themselves more easily to overlooked information.

The particular mortuary variables that have low percent agreement for a given site vary among sites in no patterned way other than their tending to be variables with low numbers of observations (i.e., a sample size effect). The two exceptions to this tendency are tomb forms at Ater, with only 43% agreement across 21 individuals, and age at Seip, with only 74% agreement across 31 individuals. The discordance between the two data bases for age at Seip reflects the fact that information from Konigsberg's (1985) modern demographic study of the human remains from Seip was incorporated in the HOPEBIOARCH data set but not Greber's data base, which was assembled before Konigsberg's work.

## Conclusion

Overall, the HOPEBIOARCH data base compares well to Greber's data base. Correspondence of the two data bases considering all compared mortuary variables and all three sites at once averages 92.2% agreement, with a median agreement of 100%, and a range of 0–100%. This degree of concordance was unexpected, but not unwelcome. Although the two data sets were built to answer different kinds of questions and emphasize different kinds of information, the thoroughness of either would be hard to question.

## THE HOPEWELL SITE

The second, independently constructed data set to which we compare the HOPEBIOARCH data base is one assembled by Timothy Lloyd (n.d.), on the Hopewell site. Because Lloyd's work was done for his doctoral dissertation, which had not been completed at the time, and our data base had not yet been published, we exchanged and compared only summary information on our data bases. Specifically, we compared the number of burials that had specific mortuary attributes considering the site as a whole or its specific mounds, as opposed to the particular individuals that had those attributes. Five kinds of comparisons were made between the data sets: (1) the number of individuals excavated from each mound; (2) the number of individuals whose bodies were processed by each of several different means; (3) the number of individuals found in tombs of each of several distinct forms; (4) the number of individuals who were associated with artifacts of particular kinds; and (5) the number of individuals of different sex and age categories.

## Methods

Comparisons between Lloyd's data base and the HOPEBIOARCH data base were begun by defining equivalencies between the mortuary variables in the two data sets. This was a straightforward procedure, because both data bases used primarily terms taken directly from published reports and field notes, or terms that were very similar. In all, 17 mounds, 6 methods of body processing, 7 forms of tomb construction, 43 kinds of artifact types, and 10 age-sex categories were equated and compared (Appendices 14.13–14.17).

The degree of agreement of the two data bases for a particular attribute was assessed using a measure related to the difference in counts of individuals having that attribute:

$$A = 100\% - \left( \frac{d}{N} \right) \times 100\%$$

where  $A$  is the percent agreement between the two data sets, which ranges between 0 and

100%,  $d$  is the difference between the two data bases in counts of individuals having the given attribute, and  $N$  is an estimate of the number of individuals having that attribute, equivalent to the numeric average of the number of such individuals in the two data bases.

## Results

Appendices 14.13–14.17 summarize for the Hopewell site the points of agreement and disagreement between Lloyd's data base and the HOPEBIOARCH data base. Appendix 14.13 shows the concordance and discordance of the two data bases for the number of individuals excavated from each mound at the site. Several of the smaller mounds were combined and counted together in the summary tables supplied to us by Lloyd, and therefore a full mound-by-mound comparison is not possible. Body counts for both data bases exclude individuals described as intrusive and as trophy skulls. The two data bases differ by only one individual (0.47%) for the total number of interments inventoried at the Hopewell site. Lloyd's data base contains one more individual in Mound 23, one more in Mound 24, and one less in Mound 30. In the case of Mound 23, Moorehead's (1891) field notes are not very detailed, and are somewhat unclear in places. It is thus not surprising that the two data bases disagree on the number of burials excavated from this mound. It is possible that the difference in counts results from our not counting skeleton S238 among the individuals buried in Mound 23.<sup>3</sup> The difference in body counts for Mound 24 probably represents a difference in the interpretation of a skeleton described on page 104 of Moorehead's field notes.<sup>4</sup> The difference between our data base and Lloyd's for Mound 30 is easy to understand. The difference relates to our having interpreted a deposit of cremated remains in the mound as an intentional burial, and Lloyd having not.<sup>5</sup>

Appendix 14.14 presents the comparison between the two data bases for the number of individuals whose bodies were processed by each of several different means. Information on body treatment is not always stated explicitly in

the site reports and field notes, and sometimes had to be inferred from mention of body orientation, artifact associations with skeletal elements, and so on. Body treatment at the Hopewell site can be roughly divided into four kinds: inhumation with no evidence of burning; inhumation with charring, in which a skeleton shows evidence of burning but the bones remain fairly intact; partial cremation, in which it appears that the limbs are well cremated but the trunk is more intact; and cremations, which were apparently fairly thoroughly burned. The other categories of body treatment tabulated in Appendix 14.14 are idiosyncratic. The bundle burial represents the remains of two individuals in a single bundle. The individual that was half cremated and half inhumed may be unique among the Ohio Hopewell.

Most categories of body treatment differ little between the two data bases. The HOPEBIOARCH data base has a category for "partial cremations" that is not present in Lloyd's summary tables. It is assumed here that these individuals were instead included by Lloyd under his "charred" category. Adding the partial cremations to the "charred inhumations" category in the HOPEBIOARCH data base lessens the difference between the two data sets for the "charred inhumations" category, but the disagreement is still substantial. Additional differences between the two data sets in body treatment are discussed in Note 6.<sup>6</sup>

Appendix 14.15 compares the two data sets for the number of individuals found in tombs of each of several forms. As with body treatment, the kinds of tombs in which individuals were interred was not always stated explicitly in the site reports and field notes. The considerable under-reporting by Moorehead of graves with log walls in Mound 25 has already been discussed (see above, Field and Laboratory Observations).

For those burials where grave preparation was described explicitly or could be inferred from maps or other records, the numbers in the two data bases are quite similar.<sup>7</sup> The only significant differences between the two data bases are in the number of individuals associated with a gravel floor, and the fact that

Lloyd does not mention crematory basins as a form of preparation.<sup>8</sup>

Appendix 14.16 summarizes the matches and mismatches between the two data sets in the number of individuals who were associated with artifacts of given kinds. Idiosyncratic artifact classes possessed by only a single individual were excluded from the comparison. In both data bases, when particular artifacts could not be definitely associated with one or more individuals in a multiple burial, the artifacts were associated with the individuals at large in the grave. In Appendix 14.16, in the column with Lloyd's counts of individuals, the number in parentheses represents a less certain count, and the other number represents the more likely count. In the column with counts in the HOPEBIOARCH data base, a number in square brackets represents the number that probably compares least well with Lloyd's. The other number compares better with Lloyd's, but required combining artifact classes that we had coded separately. For example, the count for copper nuggets cited for the HOPEBIOARCH data base includes an algodonite nugget (a combination of copper and arsenic), which in the HOPEBIOARCH data base itself was not included in the raw copper category at the time of this study (the nugget now is). In comparing the two data bases, their best possible concordance, considering counts inside or outside of parentheses and counts inside or outside of brackets is reported.

The limited degree of difference between the two data bases for numbers of individuals who were associated with given kinds of artifacts is surprisingly small. In most cases, there are no differences or the two data bases differ by only a single burial. Only 6 of the 44 artifact groups that are compared show differences of greater than one individual: shark teeth, bear claws, copper bracelets, headplates, mica ornaments and cutouts, and unknown kinds of beads.<sup>9</sup> For four artifact classes, the HOPEBIOARCH data base records more individuals having had the class, and for two artifact classes, Lloyd's data base records more individuals. Small differences of one or two individuals probably represent differences in

the identification of artifact classes during data coding and differences in decisions on how to assign artifacts to individuals in multiple burials.

Appendix 14.17 compares the data sets for their agreement and disagreement in the number of individuals of different sex and age categories. The primary cause of differences between the two data sets in their counts is most likely the different sources of information employed. The HOPEBIOARCH data base contains not only the excavators' observations, which are repeated in Lloyd's data base, but also recent information from osteological studies made by Cheryl Johnston (1997b) and Paul Scullin (n.d.), as well as unpublished information from Robert Pickering (1987), Kathleen Reichs (1975), and Charles Snow (1943). In the HOPEBIOARCH data base, these sources of information were combined through their evaluation and fairly strict rules to arrive at the most probable age category and sex category of each individual (Chapter 9).

A statistical summary of the comparisons made in Appendices 14.13–14.17 is presented in Table 14.6. Concordance between the two data sets is excellent for the number of individuals excavated from the Hopewell site as a whole and from particular mounds, with an average correspondence of 98.5 % and a median corre-

spondence of 100 %. Agreement between the two data bases for the numbers of individuals buried with particular kinds of artifacts, the number of individuals buried in specific forms of tombs, and the number of individuals whose bodies were treated in various ways is good, ranging from 85.8 % to 75.0 % in average correspondence and from 100 % to 88.2 % in median correspondence. The two data sets compare less well for the number of individuals they list in various age and sex categories, because of the different sources of information on age and sex that were built into the two data sets (see above, on Appendix 14.17).

**Conclusion**

The level of correspondence between the HOPEBIOARCH data set and Lloyd's data set on mortuary remains from the Hopewell site is excellent to good. Median agreement between the two data sets ranges between 100 % and 88.2 % for the five groups of variables concerned with the numbers of individuals per mound, body treatment, tomb form, artifact association, and age-sex categories. The comparison of the two data sets demonstrates that good consistency is possible in coding mortuary information from even the most complex of Ohio Hopewell sites, despite

**Table 14.6. Agreement Between T. Lloyd's (N.D.) Data Set and the HOPEBIOARCH Data Base for the Hopewell Site**

Kind of Comparison	Statistics (%)	
Number of individuals excavated	mean: 98.5 range: 91.3–98.5	median: 100
Number of individuals whose bodies were processed in various ways	mean: 75.00 range: 38–100	median: 97.6
Number of individuals in tombs of various kinds	mean: 84.59 range: 40–100	median: 96.1
Number of individuals associated with artifacts of various kinds	mean: 85.8 range: 0–100	median: 100
Number of individuals in various age-sex categories	mean: 63.1 range: 0–100	median: 88.2
Mortuary variables with low correspondence (< 75 % agreement)	charred inhumation (38), partial cremation (0), gravel floor (40), depression/hole in tomb floor (71), copper nuggets/raw copper (60), copper bracelets (33), beads of unknown material (45), mica ornament/cutout (50), mica spearhead (33), extra femora (60), bear claws (60), shark teeth (0), galena lumps (60), female (44), female? (0), male? (14.3), young adult (10.3)	

problems with the reporting of late nineteenth and early twentieth century excavations and with the curation of their finds in museums. Most of the differences between the two data sets that do exist stem from these difficulties, as well as the varying interpretations that modern researchers have drawn from the reports.

### THREE-WAY COMPARISON OF GREBER'S AND LLOYD'S DATA BASES AND THE HOPEBIOARCH DATA BASE

The degree of correspondence between the HOPEBIOARCH data base and Lloyd's data base for the Hopewell site is generally less than the degree of correspondence between the HOPEBIOARCH data base and Greber's data set for the sites of Seip, Ater, and Turner. This is the case when considering the average and median measures of agreement for artifact classes, tomb forms, kinds of body treatment, and age and sex categories (compare Tables 14.5 and 14.6). This pattern is repeated when considering the numbers of variables with low agreement (< 75 %) between data bases. The number of variables with low agreement between the HOPEBIOARCH data base and Lloyd's data base, proportionate to the total number of variables compared, is greater than what is found when comparing the HOPEBIOARCH data base and Greber's data sets on the Seip and Turner sites, and similar to what is found when comparing the HOPEBIOARCH data base to Greber's data set on the Ater site. For the Hopewell site, 19.3 % (17 of 88) of the variables that were compared disagreed between the HOPEBIOARCH data set and Lloyd's data sets. For the Seip, Turner, and Ater sites respectively, 5.0 %, 10.8 %, and 22.5 % of the variables that were compared disagreed between the HOPEBIOARCH data base and Greber's data set. In sum, the level of concordance between the three data sets is thus related more to the particulars of a site and site records than it is to the person who coded a data set.

The specific mortuary variables that have low percent agreement between data bases vary widely from site to site. Three variables are exceptions: age, sex, and beads were found to have low percentages of agreement across two to all four of the sites. The low levels of concordance found for age and sex have been noted above to result from the different sources of information on age and sex that were used to construct the data sets.

### CONCLUSION

The cultural reconstructions of Hopewell life that we have made in this book and that we and others made in *Gathering Hopewell* (Carr and Case 2005a) using the HOPEBIOARCH data base, and the new insights that researchers hopefully will glean from the data in the future, depend in their veracity on the quality of the data. This chapter has demonstrated that the quality of the HOPEBIOARCH data base is very good to excellent in regard to coding decisions and inter-observer consistency. In other words, the "precision" or "replicability" of the data set is high.

The accuracy, representativeness, and completeness of the information in the data base are separate issues. They are determined by the kinds and portions of Ohio Hopewell ceremonial centers that have been sampled through excavation, the quality of field and laboratory observations, and the standards of curation of archaeological records and excavated remains in museums. Gaps and biases in information that have arisen in these domains are very real. They are both known and unknown, and when known, have been or can be corrected in some instances and not in others. The biased ages and sexes attributed to human remains from the Hopewell site by its original excavators (Moorehead 1922; Shetrone 1926a), and the reassessment of the skeletal collection by Johnston (Chapter 10; Johnston 2002), which led to new estimates for some but not all excavated individuals, is a case in point. Less encouraging are the ceremonial sites of Liberty and Old Town, which were key among



those used by Scioto Hopewell communities bound together in a three-valley alliance during the third and fourth centuries A.D. (Chapter 3; Carr 2005a), but which were poorly excavated and reported by today's standards. Most of the information missing from these sites does not appear recoverable at this time.

In such situations in the HOPEBIOARCH data base, where the quality of the data cannot be improved, the best strategy open to the researcher is to foster in her or himself a critical awareness of the data problem, its likely manifestations, its likely extent, and its possible implications for cultural interpretation. This required approach to the HOPEBIOARCH data base is no different than the mind-set ordinarily applied by archaeologists as they work with the material remains of past peoples. However, the size of the HOPEBIOARCH data base, the rich social and ceremonial interconnections that occurred within Ohio Hopewell communities, and the vocality of the Ohio Hopewell material record bring in this case a special advantage to the researcher for developing critical awareness: the opportunity for broad and deep comparisons and crosschecks within the data base, itself.

## NOTES

1. Certain problems of restricted scope arose in trying to define equivalencies between Greber's data set and the HOPEBIOARCH data base in their mortuary variables. (1) Because Greber's data set does not include definitions of its mortuary variables, their meanings had to be determined as best as possible through, first, the names she applied to the variables and, second, through an examination of the degree of correspondence between Greber's data set and the HOPEBIOARCH data base for those variables. When the name of a variable in Greber's data set was fairly definitive but not certain as to its meaning, only a rough correspondence between Greber's data set and the HOPEBIOARCH data set for that variable was required to define its equivalence in the HOPEBIOARCH data base. For example, Greber's variable, "beads set", was interpreted to mean a "set of beads", perhaps like a necklace or bracelet and equivalent to "BeadNeck" or "BraceAnklet" in the HOPEBIOARCH data base. For a mortuary variable in Greber's data set having less certain meaning in terms of the HOPEBIOARCH data base, equivalence between that variable and one in the HOPEBIOARCH data base was defined only if

the two data sets matched each other across all proveniences having the variable present. For example, one might think that a mica effigy point in the "FancyPt" variable in the HOPEBIOARCH data base would fall within the "points/knives" variable in Greber's data set. However, in the one provenience in the Ater mound where a mica effigy point was found, Greber's data set does not list it. Therefore "mica effigy point" in the HOPEBIOARCH data base was not taken to be included within and equivalent to "points/knives" in Greber's data set.

- (2) In Greber's data set and the HOPEBIOARCH data base, sites vary in the nature and amount of information available on tomb form variables. Consequently, different kinds of comparisons of tomb form were sought for different sites. (a) For the Seip-Pricker mound, only the variables "WallPrep" in the HOPEBIOARCH data base and "const" in Greber's data base were considered. "Multi-person log vault" in "WallPrep" in the HOPEBIOARCH data base is equated to log in "const" in Greber's data set. (b) For the Ater mound, "WallPrep" in the HOPEBIOARCH data base is equated with "const" in Greber's data base. "BodyWrap" in the HOPEBIOARCH data base is equated to "material" in Greber's data base. (c) For the Turner Burial Place, no comparisons of tomb form were made because the necessary data were not available in the HOPEBIOARCH data base at that time. (d) In general, stone in "WallPrep" in the HOPEBIOARCH data base is equated to stones in "const" in Greber's data set. For a tomb having both log and stone components, both materials must be recorded in both data bases for the case to be considered a match.
2. The following, context-specific rules for comparing Greber's data base to the HOPEBIOARCH data base were devised and applied when applicable, in order to accommodate complexities and idiosyncracies posed by particular graves.
  - (1) If either the HOPEBIOARCH data base or Greber's data set has more than one artifact of a kind in a provenience and the other data base has only one artifact of that kind in the provenience, then this provenience is counted as a match for artifact presence, but not for artifact counts. For example, suppose that for a particular provenience, Greber's data set lists one copper pin and two silver pins, whereas the HOPEBIOARCH data base lists three copper pins and one silver pin. In this case, the following would be tabulated: a match based on the artifact type (pin) present in the provenience, no match on the number of artifacts of that kind present, and a match on the materials of that kind of artifact.
  - (2) For a grave with multiple individuals, Greber's data set often duplicates artifact types, their counts, and their descriptions for every artifact present in the grave for each skeleton found in it. However, sometimes the artifacts within a grave were split among individuals. For the same interment with multiple individuals, Greber sometimes used one strategy for one artifact class and the other for another artifact class. Neither of these two strategies for associating artifacts with an individual was

- used with consistency, as far as we can tell. In cases such as these, when artifacts are duplicated among individuals of a multiple burial in Greber's data set, each artifact is reassigned to one individual or another within the grave, in order to facilitate comparison between Greber's data set and the HOPEBIOARCH data base.
- (3) If an artifact occurred in a multiple grave, and all individuals in the grave are recorded in both Greber's data set and the HOPEBIOARCH data base, yet the specific individual that is recorded as having had the artifact varies between the two data bases, then nevertheless, this is counted as a match between the two data bases for the presence of the artifact type. This rule was followed on the justification that determining the specific individual with which a given artifact was associated is often hard, and is a different issue than whether both data sets recorded the artifact's presence. For example, a grave might have three individuals, 47a, 47b, and 47c, all three in both Greber's data set and the HOPEBIOARCH data base. If Greber recorded copper celts present with individuals 47a and 47b, whereas we recorded them present with 47a and 47c, then this case was considered two matches for the presence of celts.
- (4) If Greber's data set and the HOPEBIOARCH data base disagree on the number of individuals within a grave, then the individual(s) not shared by data sets were discounted from all comparisons: artifact type presence, artifact type count, artifact type material, and bodily variables and tomb attributes.
- (5) It appears as though the CDAGE category of 25–50 years in Greber's data set was used as a catch-all category for most skeletal samples. If the more restricted age attributed to a skeleton in the HOPEBIOARCH data base falls within this broader range in Greber's data set, then this situation is considered an agreement between the two data bases.
3. Regarding skeleton S238, the typewritten version of Moorehead's field notes (which are much easier to read) describe this skeleton as having been found in Mound 23. However, the handwritten notes indicate that S238 was found in Mound 3. Furthermore, the description of this burial suggests that it may have been one of the so-called "trophy skulls" from the site rather than a regular inhumation. In his field notes, Moorehead (1891) describes S238 as "...fragments of a skeleton..." in which the maxilla was cut, the lower jaw was perforated, and "no inferior extremities or back bone was found. ..." By stating that there were no "inferior" extremities, one could interpret that there were "superior" extremities, in which case this individual would appear to represent a skeleton, despite the "trophy-like" manipulations of the mandible and maxilla. However, we interpreted this passage to mean that no skeletal elements were present except the jaws and perhaps part of the cranium, and coded this provenience as a ceremonial deposit rather than a burial. Thus, we did not include S238 in our counts of individuals buried in Mound 23 when comparing the HOPEBIOARCH data base to T. Lloyd's data.
  4. The skeleton in Mound 24 on page 104 of Moorehead's field notes is not numbered, but is described as being charred, and was accompanied by earspools. We believe this skeleton to be S196, which is never described in the field notes or site report by number, although it does appear on the floor plan of Mound 24 (Moorehead 1922). There is an inconsistency, however, between the description of the charred skeleton and the depiction of S196 on the floor plan, in that the floor plan shows an ocean shell container as well as earspools with this skeleton. This difference between the two skeletons is offset by three other kinds of evidence, that suggest that they probably were one in the same: by the location of the description of the charred skeleton in Moorehead's notes (between S193 and S194), by the fact that it is described as having been found in the same general part of the mound where S196 is shown on the plate, and by the fact that S196 is not mentioned elsewhere. It is not known for certain whether this interpretation is correct, and whether the difference in counts between the Lloyd's data base and the HOPEBIOARCH data base sets results from the problem of S196. The details of Lloyd's data base are not yet published at the time of this writing.
  5. In his field notes on Mound 30 at the Hopewell site, Shetrone described finding a small amount of cremated bone scattered over a circular area of about six feet across. Several artifacts were found in association with the bone scatter. The association of the artifacts coupled with the somewhat regular sounding arrangement of the cremated bone led us to interpret this cremation as an intentional burial. However, given the good number of burnt areas and ash beds described in various mounds of the Hopewell site, a case could be made for not counting this bone scatter as an intentional burial.
  6. Regarding other aspects of the coding of body treatment in the two data sets, as shown in Appendix 14.14, Lloyd placed five additional individuals in the "charred or inhumed" category compared to the HOPEBIOARCH data base. Some of these skeletons may have been charred or burned, but not enough information was given to determine for certain how many were actually in contact with fire or heat. The 25 individuals in this category in the HOPEBIOARCH data base all come from Moorehead's excavations of Mound 23, and represent some or all of the skeletons in the ranges from S197 to S209 and S210 to S227.
- The difference between the two data sets in the number of tabulated cremations is only a single individual. However, since we also included a cremated individual from Mound 30 in our count and Lloyd did not (see above, Note 5), the real difference is two individuals. It is unclear why this difference exists.
- It may be significant that combining the inhumation and charred inhumation categories largely erases the differences between the two data for these kinds of body treatments. Although combining the two categories does not explain why the two data bases differ for



these categories, combining them might actually be appropriate for sociological analysis of the remains. Specifically, Moorehead (1922) seems to have thought that much of the charring of skeletons, at least in Mound 23, may have been caused by placing unburned skeletons in contact with a superheated floor. This particular explanation is difficult to accept: How was the floor heated? Once heated, how were bodies placed on it? However, Moorehead might have the right idea that charring of skeletons may not have been intentional. If this was the case, then the difference in appearance between unburned inhumations and charred ones might have little significance sociologically, and combining them into one category might be appropriate.

7. The HOPEBIOARCH data base contains 48 individuals in log-walled tombs, along with a cluster of four individuals clearly buried separately from one another but apparently interred in a single log-walled structure (Mound 25, burials 4, 6, 7, and 8). Lloyd reports 50 individuals in log-walled tombs. It is unclear whether Lloyd's count includes the four individuals in the log structure or not.
8. In a sense, crematory basins should not be included as grave treatment since they were, in most cases, probably not constructed for a single person. We chose to include the basins as grave forms because we wanted to be able to assess any patterns associated with individuals purposely interred in these basins.
9. The difference between the two data bases in two of the bead categories seems easily explained. Lloyd's data base has three additional burials with pearl beads and three fewer burials with beads of unknown type. It is possible that Lloyd assigned to the pearl bead category three burials that were placed by us into the unknown bead category. Alternatively, it is possible that Lloyd counted individuals that had raw (unperforated) pearls in with individuals that had pearl beads. If the latter was done, the HOPEBIOARCH data base would differ from Lloyd's by only one individual for the pearl bead category, because the HOPEBIOARCH data base records two individuals as having had raw pearls.

# *The Scioto Hopewell* *and Their Neighbors*

**Bioarchaeological Documentation and Cultural Understanding**

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*Cover Design Acknowledgment:* Digital painting, “On the Way”, by Christopher Carr, based on portraits of three ceremonial leaders rendered on three copper celts by anonymous Ohio Hopewell artists, compositions of processions of persons rendered on copper breastplates by anonymous Ohio Hopewell artists, and an early photograph of a virgin hardwood forest in the Allegheny Plateau province of Ohio. The three celts bearing the portraits of leaders, from left to right, are: Carr no. C023 Side A, from the Hopewell earthwork, possibly Mound 25, Skeletons 260–261, curated at the Ohio Historical Society, cat. no. 283/351B; Carr no. C301 Side A, from the Edwards Mound Group, 33HA7, curated at the Harvard Peabody Museum, cat. no. 84-6-10/32346; and Carr no. C011 Side A, from the Seip earthwork, curated at the Ohio Historical Society, cat. no. 957/-. Example depictions of processions of ceremonial leaders are found on breastplates Carr B061 Side B, from the Liberty earthwork, curated at the Ohio Historical Society, cat. nos. 7/1.007 and 13716; and Carr B025 Side A, from the Hopewell earthwork, Mound 25, Burial 6, curated at the Ohio Historical Society, cat. no. 283/83C. The portraits and processions were revealed by color and near-infrared digital photography, hybrid color-near-infrared image display, and image contrast enhancement. The full forest photograph is published by Gordon (1969:Frontispiece). Top and bottom border designs are, respectively, a snake-skin design incised on the top of a pottery vessel and a rocker-stamped bird feather design placed on the body of the same vessel, from the Hopewell earthwork, Mound 25, Altar 1 (Moorehead 1922:171, Figure 70). Cover layout by Christopher Carr and Deann Gates.

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