

## Chapter 6

# *Documenting the Ohio Hopewell Mortuary Record: The Bioarchaeological Data Base*

D. TROY CASE AND CHRISTOPHER CARR

This chapter introduces the reader to the data base of Ohio Hopewell burials and associated grave goods that have served as the foundation for reconstructing the social and ceremonial organization of Scioto Hopewell peoples and other Ohio Hopewell groups, as presented in Part II of this book and in *Gathering Hopewell: Society, Ritual, and Ritual Interaction* (Carr and Case, 2005c). The data base, called HOPEBIOARCH, describes the tomb characteristics, artifact inclusions, artifact positions relative to the body, and age and sex estimates for 936 burials representing 1483+ individuals from 112 mounds and burial areas in 50 excavated Ohio Hopewell sites. It also describes the contents of 77 ceremonial deposits from 47 mounds or areas in 19 sites. The total numbers of sites and mounds with burials and/or ceremonial deposits are 52 and 126, respectively. A ceremonial deposit is defined here as a collection of several artifacts, of the same type or different types, that appears to have been intentionally placed together and buried without accompanying human remains. A ceremonial deposit can also be a single artifact found in a specially prepared area (e.g., a crematory basin, the horseshoe-shaped feature at the North Benton

site). Accumulations or deposits containing only faunal or other organic elements, fragments of a single artifact type that appear to be utilitarian (e.g. plain pottery), or both were not included in the database (see Chapter 8). The data base includes burials and ceremonial deposits from all excavated Hopewell burial mound sites in Ohio that have been inventoried by Seeman (1979a:262, Table 2) and Fischer (1974: 359–362, Appendix A4), that can be shown to fall within the Hopewell tradition by modern criteria, and for which intrasite provenience information on burials is available. Several additional small Hopewell sites are also included in the database to round out the inventory of graves from identifiably Hopewell sites in Ohio. These smaller sites are: Days' Farm mound, Finney mound, Fortney mound, Glen Helen mound, Lee mound, Manring mounds, Martin mound, Pence mound, Perry Township mound, Shumard's Farm mound, Snake Den mound group, Stone mound, and Yant mound. We believe these represent all published and unpublished Ohio Hopewell cemeteries that have been excavated and for which written documentation exists in museums, historical societies, and universities.

The purpose of this chapter is to describe the structure of the HOPEBIOARCH data base generally, the rationale behind this structure, the mechanics of its creation, the kinds of information sources used, and the locations of both descriptive and complementary information within this book.

## THE DATE BASE AND ITS DOCUMENTATION

The HOPEBIOARCH data base, itself, is on the accompanying CD. It is presented in four different formats (Appendices 6.1A–D). Two are EXCEL files. One contains the data base in its full form, with provenience, demographic, grave good, tomb form, and grave good positioning information. The second EXCEL file omits the bulky information on grave good positioning and thereby makes quick scanning of the matrix for all other information much easier. The remaining two versions of the HOPEBIOARCH data base have the same contents as the first two, but are tab-delimited files.

Most aspects of the data base are described in Chapters 7–10. These chapters define its variables, cases, and contents, and provide information that will assist researchers in designing future studies that make use of these data. The archaeological sites covered in the HOPEBIOARCH data base are described in Chapter 7. Information is provided about site location, including the nearest township, the major and minor drainages in which the site is found, and the location's physiographic characteristics. Distances from various towns are for those towns that existed and were reported at the time of excavation. Details of site size and form are also provided, including the presence or absence of earthworks and the numbers of mounds or burial areas identified. These data can be used to help organize the various sites into groups by geographic and cultural region, and by size and function to a degree. Other information provided in Chapter 7 helps to define the quantity and quality of data available for each site. Included are estimates of the

extent of excavation of burial areas, and the quality of reporting of details such as the ages and sexes of skeletons, the stratigraphic and horizontal locations of burials at the site, and artifact locations relative to each skeleton. In addition, a bibliography is presented that lists published and unpublished archaeological sources of information on each site and on the ages and sexes of individuals buried at each site. Chapter 7 also introduces Appendix 7.2, which contains 101 maps that show the internal spatial layouts of 64 mound floors and 14 ceremonial enclosures or mound groups. This appendix is included on the CD. The maps, combined with information from the data base, can be used to explore the spatial distributions of mortuary traits across charnel house and mound floors.

An overview of the 545 variables found in the data base and their corresponding variable states is given in Chapter 8. These variables are divided into three types: 177 primary variables that describe particular artifacts, grave attributes, provenience identifiers, and etc., 74 numeric variables associated with some of these primary variables, and 294 position variables that indicate the location of artifacts within graves and relative to the skeleton or cremation. Definitions of each primary variable and burial state code are provided, along with general descriptions of the numeric and position variables. Figures in Chapters 1–4 that depict one or more examples of artifact types are cited in Chapter 8 to help clarify the artifact definitions. The artifact classification system used in the data base distinguishes items primarily by their formal and material qualities. It also attempts to capture the social and ceremonial functions of the artifacts. Thus, for example, copper and mica cutouts are treated as separate variables, while the various forms of these cutouts are richly described in a variety of different variable states. Most of the variables in the data base are mutually exclusive of one another. However, in a few cases, certain variables that overlap with each other were created for specific analytical purposes. Such cases of redundancy are clearly identified in the variable descriptions so that other researchers may recode the data, if necessary, to suit their own analytic purposes.

One suite of variables in the HOPEBIOARCH data base that is absolutely essential for sociological reconstructions is the estimated ages and sexes of individuals and the reliability of these estimates. Age and sex data were gathered on Ohio Hopewell skeletons over the course of 120 years by different researchers with greater or lesser experience and using a variety of different methods. The reliability of the age and sex information available for human remains from several of the Hopewell sites in the data base is addressed in Chapters 9 and 10. Chapter 9 assesses the data available as of 1998 for the Ater, Esch, Harness, Hopewell, Rockhold, Seip, and Turner sites, and draws conclusions about which assessments can be used in social analyses with relative confidence, and which should be treated with caution. Several appendices to Chapter 9 are located on the CD and list the specific age and sex assessments available from all known sources. These data are also coded within the data base itself as several different variables. Chapter 10 describes very recent age and sex assessments that have been made for skeletons from specifically the Hopewell site and that use a wide array of osteological and dental techniques and two multivariate approaches. These new approaches have added to the number of skeletons from the Hopewell site with reliable age and sex information, and have refined many of the previous assessments. Two important appendices from this chapter, Appendices 10.3 and 10.4, are found on the CD and provide a provenience by provenience account of the information available on each of the skeletons encountered by Warren Moorehead and Henry Shetrone during their excavations of the Hopewell site. The appendices weave together information from site reports, field notes, and the skeletal collections themselves. The appendices describe which skeletons were collected, whether the bones exhibit cutmarks and copper staining, and include detailed descriptions of culturally modified human remains from the site. The specific bones curated for a particular skeleton are also sometimes recorded, especially for burials from which only a few bones were collected.

## CONSTRUCTING THE DATA BASE

The data base was assembled by the authors in a number of overlapping stages over a period totaling approximately eight years. We were assisted in this task by a number of graduate students without whose help the data base might not have been completed. We began our work of documenting Ohio Hopewell burials with the larger sites of Hopewell, Seip, and Turner. These sites were targeted because their reports were published and available, and contain detailed descriptions of individual burials and ceremonial deposits. Our approach at this initial stage was to read through the site reports, gather together all relevant information about each burial described in various portions of a report, and then to write a bulleted summary of the nature and contents of each grave and ceremonial deposit using the original terms that the excavators and authors had used for the artifacts and tomb forms. We did not boil down their descriptions into a priori descriptive classes. These detailed summaries of graves and ceremonial deposits came to be called *provenience sheets*. They are reproduced in Appendix 6.2. In addition, the three sites were selected because they were known to encompass much of the spectrum of artifact classes found in Ohio Hopewell mortuary sites generally (Seeman 1979a). Our first pass through these site reports helped us to define the types of variables that should be present in the data base, the kinds of information consistently reported by excavators versus that which was idiosyncratic, and what additional information and forms of documentation would be necessary if the data base were to be useful for conducting intrasite and intersite mortuary analyses.

Once we had secured an understanding of the diverse kinds of information commonly recorded for an Ohio Hopewell mortuary site, we expanded our coverage to include burials and ceremonial deposits from other Ohio Hopewell sites that were published. We also noted additional sites that Seeman (1979a) and Fischer (1974) listed but that had only unpublished reports available, and

only in museums or historical societies. The second stage of our data collection efforts involved grant-funded research trips to examine unpublished field notes, site maps, accession records, field photographs, and some of the artifacts from published and unpublished Ohio Hopewell sites. Sources of these data include the Ohio Historical Society in Columbus, the Field Museum of Natural History in Chicago, The Peabody Museum of Archaeology and Ethnology at Harvard University, Hopewell Culture National Historical Park in Chillicothe, Ohio, as well as a number of smaller public and private collections (Chapter 7). The examined records contributed many new proveniences for sites that are documented only in part in published site reports, filled out information on burials and ceremonial deposits described only to a degree in the reports, and added many new, unpublished sites to the project.

The examined records highlighted many inconsistencies among the data sources. For example, field notes written by the excavators sometimes disagreed with their own site reports about the specifics of certain burials. Inconsistencies such as these were assessed and a decision was made on a case by case basis as to which information source to trust. We tended to give the greatest weight to the field notes and maps when discrepancies involved numbers of individuals in a grave and positions of artifacts in a grave. We were more likely to follow the site reports for descriptions of the specific nature of artifacts and their numbers, under the assumption that the artifacts might have received closer scrutiny at museums or by other experts prior to publication. Museum accession records were also used to assist with clarifying the types and numbers of artifacts present in particular graves. However, information from the accession records about artifact numbers was treated conservatively because it was not always clear, for example, whether broken specimens were counted by the number of total objects represented or the number of pieces present. When inconsistencies arose between accession records and site reports or field notes, decisions about which information to use were again made on a case

by case basis, sometimes taking into account what we knew about the tendencies of the site excavators and reporters. Our guiding principle was to maximize the specificity of the data available while minimizing the probability that a particular artifact or burial characteristic would be included in the description of a burial by mistake. Our bias was to not include information if our best assessment was simply that the artifact or characteristic was “possibly present” or “probably present”.

The third stage of our building the HOPEBIOARCH data base involved defining its variables from the descriptions that excavators and site reporters had provided and that we had summarized in the provenience sheets. These definitions were then used to develop the data base structure and to code information into the data base. This stage was begun after the provenience sheets for the first few sites were created from published site reports, but before additional, unpublished information from museums had been reconciled with them. The provenience sheets and data base were updated several times as new sources of archival information were tapped.

Our aim was to create a data base that would contain all of the data available for each burial at a site, while being structured in a way that would facilitate social analyses within and between different Ohio Hopewell sites. Therefore, the 177 primary variables in HOPEBIOARCH are ordered by analytical categories useful in sociological mortuary studies. The biological categories concerned with ages, sexes, and numbers of individuals in a grave are found near the front of the data base, followed by variables that consider burial characteristics such as tomb form and grave dimensions. Artifact classes appear next, organized into broad suites of classes, primarily by the social roles in which they were inferred to have been used (Chapter 11) and secondarily by form and raw material: the paraphernalia of shaman-like practitioners, other ceremonial equipment, the paraphernalia and role markers of non-shamanic leaders and other important people, clan markers, items of wealth and personal

decoration, utilitarian objects, and fancy raw materials. Each artifact class is accompanied by three variables that together describe for a burial the position of artifacts of that class relative to the corpse or cremation, where information on artifact position is available. Most of the variables are descriptive of artifact classes or burial characteristics, but a few are interpretive. For example, the variable “water barriers” describes any set of artifacts or natural materials that were placed around a grave apparently to act as a water barrier to ghosts, much like the water barriers that were constructed around some Adena mounds (Hall 1976b; see also Carr 1998, 1999a, 2000b). Materials that might signify a water barrier are those that come from water or have a color or shine that might represent water, such as mica, shells, pearls, limestone, and light colored rocks (e.g. Figures 5.3A–E). Quite a few examples of graves surrounded by such materials are known from Ohio Hopewell sites, making the water barrier a significant interpretive variable for mortuary studies.

The original version of HOPEBIOARCH, upon which many of the analyses in *Gathering Hopewell* (Carr and Case, 2005c) were based, was completed in 2001. This version of the data base included information on 854 individuals from 33 Ohio Hopewell sites, as well as 65 ceremonial deposits from 14 sites. The data base has since been expanded to include a total of 1052 individuals and an estimated 431 commingled human remains from 50 sites, as well as 77 deposits from 19 sites. These sites encompass, as far as we know, all Hopewell mortuary sites in Ohio for which written information on internal provenience is available.

A few new variables have also been added to this most recent version of the data base. Most critical, revisions have been made to the age and sex assessments of some burials from the Hopewell site (see Chapters 9, 10). These estimates were not available at the time that studies were being made for the book *Gathering Hopewell*. The particular modifications made to the age and sex data can be found in Table 9.2.

## PROVENIENCE SHEETS

Appendix 6.2 contains the provenience sheets for all burials coded in the data base. Each sheet is a bulleted list of the characteristics of a burial or ceremonial deposit of artifacts, and was compiled from one or more sources of information. Each sheet served as a transitional step in coding the burials and deposits into the data base. A sheet specifies the type of provenience (burial or deposit), the primary source of information on the provenience, and its form and size (e.g., tomb form). For burials, this information is followed by a brief summary of the human remains, including an indication of burial type (inhumation vs. cremation), number of individuals represented, and other relevant details about body position, estimated stature, head orientation, etc., when these were recorded in documents. For both burials and deposits, a list of the types of artifacts recovered and their numbers follows. Each artifact type is described in as much detail as was necessary to create an appropriate code for its inclusion in the data base. Typical descriptions include the material from which the item was made, some indication of its absolute or relative size, and its location in the grave relative to grave features or the human remains. In cases where the excavator specifically mentioned that no artifacts were recovered, this is also noted. For many proveniences, excavators did not explicitly say whether or not artifacts were recovered, so the provenience sheet may simply list a skeleton without any indication of whether artifacts were associated with it. For a small number of proveniences, photographs of them during their excavations provided some additional information on tombs, artifacts, and spatial layouts. Such information, when present, is indicated under the heading “Photo”, below the description of artifacts.

The provenience sheets found in Appendix 6.2 complement the data base in several useful ways. First, they allow researchers interested in particular proveniences to access the information about a burial or ceremonial deposit in uncoded form. This makes the appendix valuable as a quick



reference when reading about particular sites or burials, and as a means of assessing whether the coding scheme that we developed for particular variables is appropriate to a specific study. Second, the provenience sheets contain a limited amount of information that is not included among the data base variables or codes, such as information about atypical burial characteristics, measurements of certain artifacts, associations between certain artifacts and pieces of fabric or other organic materials, and species names for particular ocean shells. Third, the provenience sheets are presented as separate files for each site, making information for a particular site easily searchable using the "Find" function within MS Word. Researchers wishing to relocate a burial or deposit that contained a specific artifact or material, such as the cremation with the large obsidian deposit at the Hopewell site, or the burials from Hopewell and Seip that contained copper nostril inserts, can locate such proveniences in a matter of seconds. Additionally, researchers interested in studying specific materials, such as copper, mica, galena, or pipestone, can search the provenience sheets for each mention of these materials to better understand their distribution within a certain site, across different sites, or as the medium of particular artifact forms. For researchers who are interested in searching for all examples of a given artifact class in all sites in Ohio and in studying the details of its various contexts of deposition, all provenience sheet files can be combined into one long serial list of proveniences. This global file can then be efficiently searched for all instances of the artifact and its contexts.

There are some caveats to consider, however, when using the provenience sheets. The provenience sheets were not initially designed with publication in mind. They were intended as a tool to assist us in coding of the data base. Most of the provenience sheets contain information drawn from the primary data source, such as a site report or field notes, for a particular provenience. They may or may not contain additional information drawn from field notes, accession records, direct observation of certain artifacts, or publications by

other authors who noted errors or inconsistencies in the primary sources. In retrospect, it would have been ideal to have kept track of all additions to, and the occasional subtractions from, each provenience sheet beyond its primary data source, as well as the particular sources of any new information. However, this was not done systematically. Sometimes when updating the data base with information from the supplemental sources listed above, we added new information to the provenience sheets with a note indicating the source, and sometimes we added the information without a source. For many sites, when presented with new information from supplemental sources, we simply bypassed the old provenience sheets and made additions or changes directly to the data base. In general, the later a site was coded for inclusion in the data base, the more likely it is that the provenience sheets contain exactly the same information as the data base. Thus, the greatest discrepancies are most likely to be found between provenience sheets and the data base for the sites of Hopewell, Seip, and Turner. When differences are found between a provenience sheet and the data base, we place greatest confidence in the data base. Despite these departures of the provenience sheets from the data base, the great bulk of information in the data base is replicated in the provenience sheets. They remain a very useful tool for over-viewing particular burials and for locating ones with certain characteristics—something that we found repeatedly by direct experience and that convinced us that they should be published.

## ERROR CHECKS

A number of error checks have been made on the HOPEBIOARCH data base. Both of the primary steps in data entry—the transferring of information from site reports and records to the text-format provenience sheets, and the translation of the provenience sheets into the coded data base of variables—have been checked.

Three rounds of checking were systematic. First, coded entries in HOPEBIOARCH for the

Seip-Pricer mound, the Ater mound, the Burial Place in the Great Enclosure of Turner, and Mound 25 in the Hopewell site were checked against analogous entries for these sites in data bases created by N'omi Greber (1976) and Timothy Lloyd (n.d.). These comparisons span the kinds, numbers, and materials of grave goods, as well as bodily variables and tomb form attributes for individuals. The comparisons are reported in detail in Chapter 14. They indicate the very good to excellent coverage of written records and their translation into the coded HOPEBIOARCH data base, and very good to excellent inter-observer consistency in coverage and translation. Thus, the "precision" or "replicability" of the HOPEBIOARCH data base is known to be high for these four sites.

In addition, the entirety of the data base was checked twice for the translation of the text-format provenience sheets into the coded data base of variables. One check was made when the data base was nearly finished in 1999, with the exclusion of a number of sites from primarily southwestern Ohio. Beau Goldstein compared each provenience sheet to the data base and flagged suspected errors—data believed to be missing, extra, or mistranslated in the data base. Goldstein and Case then met to resolve these discrepancies. Commonly, primary and secondary sources were revisited in order to determine whether a change in the data base was warranted. Occasionally, the discrepancies were attributable to differences between Goldstein and Case in how they thought a textual entry in the provenience sheets should be coded into the variables of the data base.

Another systematic check of the data base against the provenience sheets was conducted in Fall 2006, after all proveniences from all sites had been coded into the data base. Ashley Evans, a graduate student in bioarchaeology at Arizona State University, compared the text entries in the provenience sheets for the entire data base against the coded entries in the data base itself and flagged potential errors. These potential errors were then evaluated against primary sources and, as necessary, corrected by Case.

A total, systematic check of the textual information in the provenience sheets against the primary sources was not made, other than indirectly through the comparison of our coded data base to ones devised by Greber and Lloyd for select sites (see above). A total check between original sources and the provenience sheets would have been an impractically huge job—literally years of effort. However, checks on a sample of provenience sheets were made in the course of checking their consistency with the data base, which sometimes required going back to primary references, as described above.

Checks of some provenience sheets against primary sources were also made in the following manner while the data base was being built. Information on the provenience sheets was first recorded from published site reports. As field notes, accession records, and field and artifact photographs were gathered and their information was added to the provenience sheets, discrepancies between the published information as written down on the provenience sheets and the additional, unpublished sources were checked by going back to the published site reports. Sometimes the two sources actually disagreed, whereas at other times an error had been made by us in writing the provenience sheets. These comparisons helped to clarify especially the numbers of artifacts of particular types present in a burial and sometimes the forms and types of artifacts, themselves. We generally found that the error rate in transferring information from the site reports to the provenience sheets was gratifyingly low.

Considering all of these several kinds of error checks, we conclude that the data base should quite accurately reflect the contents of the various data sources available to us. The main source of any errors found in the data base will probably turn out to have been caused by occasional misinterpretation of the primary information sources rather than input errors. Misinterpretation would be the most likely source of error because much of the coded information was taken from written descriptions of artifacts and tombs rather than illustrations or direct observations of them.

**CONCLUSION**

The HOPEBIOARCH data base brings together an unprecedented quantity of information on Hopewell burials from nearly all excavated and documented mortuary sites in Ohio. Together with the provenience sheets and maps included with the book, this data base offers great

potential for future research into the lifeways of Ohio Hopewell people. It is our hope that easy access to this information will encourage researchers to delve more deeply into the Hopewell archaeological record in order to better understand the varied social and ceremonial ways and world views of Hopewell peoples across Ohio.



# *The Scioto Hopewell* *and Their Neighbors*

**Bioarchaeological Documentation and Cultural Understanding**

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Additional material to this book can be downloaded from <http://extras.springer.com>.

ISBN: 978-0-387-77386-5 (hardcover)                      e-ISBN: 978-0-387-77387-2  
ISBN: 978-1-4419-6507-3 (softcover)

Library of Congress Control Number: 2008927598

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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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*D. Troy Case, Christopher Carr, Ashley E. Evans, and Beau J. Goldstein*

**Data Base of Intrasite Layouts**

*Christopher Carr and Rebekah A. Zinser*

**Regional Geographic Data Base**

*Christopher Carr and Rebekah A. Zinser*

**Ethnohistorical Data Base**

*Christopher Carr, Rex Weeks, and Mark Bahti*

**Figures**

*Christopher Carr and Rebekah A. Zinser*

**Other Appendices**

*Christopher Carr, D. Troy Case, Beau J. Goldstein, and Cheryl A. Johnston*

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