The Gyftakis Site: A Reevaluation of a Middle Woodland Site After 30 Years

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THE GYFTAKIS SITE: A REEVALUATION OF A MIDDLE WOODLAND SITE AFTER 30 YEARS

by

Michael R. Fournier

A Thesis
Submitted to the
Faculty of The Graduate College
in partial fulfillment of the
requirements for the
Degree of Master of Arts
Department of Anthropology

Western Michigan University
Kalamazoo, Michigan
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ACKNOWLEDGMENTS

I would like to begin by thanking Barbara Mead at the office of the State Archaeologist in the Michigan Historical Center, without whose help I would not have known half of what I know now about the Gyftakis site and the surrounding region. I would also like to thank Dr. William Cremin for his belief in me and the generous gift of lab space, as well as for loaning out the Gyftakis collection from MHC so that I would be able to do the work from home. Dr. Robert Anemone also deserves my thanks for dealing with all of my constant questions and frustrations concerning SPSS and my statistical analysis. In addition I would like to thank Dr. William Lovis whose intimate knowledge of the region and the correlation analysis used in this thesis saved me from myself. My thanks also goes out to Lauretta Eisenbach, without whose help I would never have found any of the right paperwork or classes to get this far. I would like to continue by thanking Zackary Y. Jaime who spent far too many late nights with me while we both worked on our theses.

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Michael R. Fournier
THE GYFTAKIS SITE: A REEVALUATION OF A MIDDLE WOODLAND SITE AFTER 30 YEARS

Michael R. Fournier, M.A.
Western Michigan University, 2006

This research is the catalogue and study of the Gyftakis Site (20MK51) excavated in 1973 by Dr. James Fitting. The first part of this study involves the cataloguing and description of the artifacts excavated by Dr. James Fitting at the Gyftakis site located on the Marquette Mission block in St. Ignace, MI.

The second part of the research involves using SPSS to analyze the decorative techniques used on the Gyftakis pottery. A chi-square test was performed first to see if the ceramic decorations were not just defined by a random distribution. After that the ceramic decorations were analyzed in both a 4 point correlation analysis and a Jaccard cluster analysis to determine how the ceramic decorations are distributed within the collection. The resulting separate decorative styles and the collections new catalogue will be used in an attempt to make interpretations on the origins of the Middle Woodland and specifically Laurel pottery in the upper Great Lakes region.
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Chapter I:

THE BEGINNING

In the summer of 1972, the Mackinac Island State Park Commission conducted a survey of the City of St. Ignace. The survey work, directed by Lyle Stone and conducted by James Fitting, was confined to locations where excavations could be performed, such as open lots and yards. One of the most productive locations was a 5x10 foot unit located on the Marquette Mission block. The unit, SIS-6, produced 325 pot sherds and 564 pieces of debitage, including two complete projectile points, all distinctly Lake Forest Middle Woodland (Fitting and Fisher 1975). The rich nature of this site led to its being earmarked for later excavation and named the Gyftakis site. After the initial St. Ignace Survey excavation, Stone wrote a report with contributions by Fitting, summarizing the excavations undertaken on the part of the St. Ignace Survey (SIS) (Stone 1975). The analyses of the resulting artifacts from the SIS-6 site lead to the conclusion that the site was of Middle Woodland Laurel origins. Middle Woodland Laurel is the first cultural complex in the upper Great Lakes region with pottery as part of their material culture, making Laurel the first of the Middle Woodland cultures in the area. For the purposes of this paper it is important to note that Middle Woodland will be used to describe this time period, even though there is no Early Woodland in the upper Great Lakes Region. The origins and scope of Laurel Middle Woodland will be discussed more fully in Chapter 2.

In 1973, Fitting returned to excavate the site in a more thorough fashion (Fitting and Fisher 1975). During that summer, 1600 square feet of Mrs. Gyftakis’ yard was
excavated, producing the Gyftakis Collection. Based on the 1973 excavations, and later salvage work done by Alicia Makin at the McGregor site (20MK102), Fitting began
offering interpretations about the Middle Woodland Laurel in the Straits and began calling the complex he saw Lake Forest Middle Woodland (Fitting 1978a) creating a separate tradition for the Straits region. Fitting eventually wrote a short paper for the Chillicothe Hopewell Conference describing both the Gyftakis and McGregor (20MK102) sites. Fitting supposed these sites were significant in terms of a new understanding of the Middle Woodland Laurel or Lake Forest Middle Woodland sequence in the Straits of Mackinac. In his Chillicothe Conference paper, Fitting cited an unfinished and eventually unpublished site report (Fitting 1978b) that was located with the help of the staff at the Michigan Historic Center (MHC). These three sources, the St. Ignace Survey report, the Chillicothe conference paper, and the unpublished site report are the only works pertaining directly to the Gyftakis excavations.

Subsequent to Fitting's leaving the MHC, and during the process of nominating the Marquette Mission site to the National Register of Historic Places, the materials from the Gyftakis site became mixed with those from the Tionontate Huron collection from the Marquette Mission site (Mead, personal communication 2005). Due to the efforts of several people at the MHC and a number of attempts by individuals to use the Gyftakis site for research purposes over the years, a large portion of the artifacts have been identified and extracted from the Tionontate Huron collection. Consequently, the Gyftakis collection is now different from the one that Fitting examined for his unpublished site report and for the Chillicothe Conference. The collection as it existed at the inception of this thesis was in good condition but in need of cataloging and analysis, both to determine the contents of the collection and to make any interpretations about the origins of Laurel in the Straits of Mackinac.
The purpose of this research has been to both catalogue and inventory the collection as well as to perform a statistical analysis of the ceramic assemblage, the former is important for both preservation and to facilitate further research. The statistical analysis is of extreme importance in order to both increase and possibly change our
understanding of the origins of ceramics in the Straits of Mackinac region. The cataloguing and inventorying of the collection took much longer than expected due to unforeseen problems with the original catalogue numbers that were used. This lengthened the time needed for cataloguing. The statistical analysis was done after the completion of the catalogue. The goal was to determine the placement of the Gyftakis site in the history of Laurel Middle Woodland in the upper Great Lakes Region, based on ceramic decorative styles, per Lovis et al. (1998), in order to inform our current interpretations of the origins of Middle Woodland in the region.

Gyftakis is a distinctive early Middle Woodland site that has been used to help explain the subsistence and settlement patterns of the region since its initial discovery and excavation as SIS-6 (Lovis and Holman 1976). The problem is that the site collection had not been fully analyzed and there existed no published record of the site in any state. The intention of this thesis was to first determine the current condition of the Gyftakis collection, then analyze the collection in its present state, and finally to perform a statistical analysis of the pottery in an attempt to reevaluate the origins of Laurel Middle Woodland in the Straits of Mackinac. This includes examining the site’s relationship to the chronology of the Straits of Mackinac region as Fitting evaluated it, as well as reevaluating the artifacts in light of current interpretations. A detailed understanding of the Gyftakis collection can inform interpretations of the Laurel Middle Woodland, as Fitting saw Gyftakis as being a part of the earliest Middle Woodland site in the region. The Gyftakis ceramics have been analyzed in order to reevaluate the current interpretations of Laurel in the Straits of Mackinac.
In order to perform an analysis it was necessary to request the transfer of the collection from its home at MHC to Western Michigan University under loan to Dr. William Cremin. After receiving the collection, the first step was to catalogue all of the artifacts associated with the Gyftakis site and determine, if possible, what was missing from the original collection, as compared with the site report (Fitting 1978a). The analysis began with the counting, weighing, and measuring of all artifacts, with the exception of the faunal remains, as I do not have the skills necessary to perform the analysis.

The 1973 excavations, from which the Gyftakis collection is derived, were done on top of the 1972 SIS-6 test unit, and were aligned to follow the fence lines as opposed to true North, leading to grid north being at a bearing of 19° East of North. The excavations were conducted in fifteen 10ft x 10ft units (3.048 x 3.048m) and two 10ft x 5ft units (3.048m x 1.524m). The units were dug in 3 inch (7.62cm) levels that started three inches below surface, therefore level 1 is at 3-6in (7.62-15.24cm) below surface. All material was sifted through ¼ inch screen, and although no flotation samples were undertaken during the excavations, several soil samples were gathered and remain a part of the collection (Fitting 1978a).

The analysis of the collection began with an inventory of the artifacts, which resulted in a minor problem. During my initial work with the collection, it soon became apparent that two separate catalogue numbering systems had been used. One of these, referred to as IS6, was both simple and intuitive; it contains a prefix referring to the site (IS6), followed by a unit number (1-17), possibly a feature number (F1-F29), and finally a level number (levels were taken every 3 inches) (e.g. IS6-8-F15-2). The second, known
as SIS, was simple but not intuitive, and it was not until the third week of cataloguing that I was able to decipher it. The numbers all contained a prefix (SIS-6-73), but were followed by one number that seemed to have no meaning. The problem was that while "1" referred to the first level of the first unit, "7" referred to all of Feature 2 regardless of unit or level. Once this problem was recognized and rectified the work of cataloguing could continue.
Chapter II:

WHAT IS LAUREL?

Laurel was initially defined in northern Minnesota as part of a Middle Woodland burial mound complex along the Rainy River by Dr. Lloyd A. Wilford (Stoltman 1973; Wright 1967). Wilford originally interpreted Laurel as a single focus of the Rainy River Aspect based on excavations at several mound groups in northern Minnesota near the Canadian boundary (Wright 1967). Later work and interpretations by Dr. Richard S. MacNeish expanded the geographic scope of Laurel and offered interpretations as to its origins. MacNeish believed that Laurel ceramics were diffused from Asia along the Arctic coast and down the west side of Hudson’s Bay, specifically he thought Laurel was related to the Denbigh-like complexes (Wright 1967). By 1967, Laurel ceramics had been found as far east as upper New York State, leading to Wright’s interpretation of Laurel as a tradition, which he defined as “the perpetuation of a common archaeological material culture through time which lacks major discontinuities in either sequential change or regional variation” (Wright 1967). In 1973, with the publication of *The Laurel Culture in Minnesota*, James B. Stoltman (1973) changed interpretations of Laurel. Stoltman was the first to dispute the idea of Laurel ceramics having roots in Asia; instead he viewed the origins as being southerly; possibly from the Hopewell Interaction Sphere, largely associated Illinois and Ohio but also reaching into the southern regions of Wisconsin and Michigan (Stoltman 1973). This was counter to the views held by Wright who agreed with MacNeish that the origins of Laurel were to be found in Asia. Stoltman also felt that Wright’s interpretation of Laurel as a tradition was incorrect, and he
preferred to term Laurel a culture (Stoltman 1973). It was at this time that Fitting began his work on the St. Ignace Survey. With the discovery of Gyftakis and the subsequent work he did on both the McGregor and Steiner sites, Fitting began making interpretations about the Laurel Middle Woodland in the Straits of Mackinac. Fitting eventually created the term Lake Forest Middle Woodland to describe the differences he saw in these three sites when compared with the rest of the Laurel culture (Brose and Hambacher 1999; Fitting 1978b). Fitting eventually subdivided the Lake Forest Middle Woodland into the Gyftakis, McGregor, and Steiner Phases (Fitting 1978b).

Today, Laurel is known from western Minnesota to western Quebec, encompassing parts of Manitoba, Ontario, Wisconsin, Michigan, and New York (Brose and Hambacher 1999; Mason 1969a; Reid and Rajnovich 1991; Stoltman 1973; Wright 1967). Laurel’s wide geographic distribution has influenced our understandings of upper Great Lakes Middle Woodland. Much of this new understanding of Laurel is largely because of regional stylistic variations. This regional variation can be so great that “while one rarely finds two identical Laurel Middle Woodland vessels they are nonetheless easily recognized as Laurel Middle Woodland – they form classic polythetic sets where no one characteristic is both necessary and sufficient for membership” (Lovis et al. 1998). While this is true for Laurel as a whole, regional distinctions in ceramic typology can be made (Fitting 1978a, b; Holman 1978; Lovis et al. 1998; Mason 1969a; Reid and Rajnovich 1991).

The study of Laurel Middle Woodland origins, specifically in the upper Great Lakes region, has resulted in several different interpretations, with dates as late as A.D. 400 (Lovis and Holman 1976) and as early as A.D. 1 (Janzen 1968; Lovis et al. 1998).
The question of how the Laurel tradition and its associated ceramics came to the upper Great Lakes has been more recently explained as a movement of people or ideas from areas to the south, specifically the Hopewellian cultures, as originally proposed by Stoltman (1973). It is still unclear, however, as to how or why these people or pottery migrated into the region from the south, or if this theory is even correct.

The initial 1976 Lovis-Holman hypothesis suggested that there was a low population density, due in part to Archaic period subsistence strategies that couldn’t support a larger population in the upper Great Lakes. This was countered by a subsequent boom that took place after A.D. 400, as a result of changes in technology and subsistence activities, resulting in the upper Great Lakes Middle Woodland (Lovis and Holman 1976). This change is a shift from an inland fisheries focus, specifically an adaptation to seasonal fishing along interior rivers and streams, to a seasonal coastal fishing pattern, emphasizing the exploitation of fisheries along the shores of the Great Lakes. Lovis and Holman believed that this resulted in the creation of the upper Great Lakes Middle Woodland that we see manifested in the Gyftakis site, and that this change allowed for population expansion and social differentiation that continued until contact (Lovis and Holman 1976).

Fitting, however, believed that the population boom was a result of an earlier migration of people from the south into the void of Archaic period northern Michigan. As evidence, he argues that the Gyftakis site is far too old (ca. A.D.170), according to the radiocarbon date he obtained, to support the Lovis-Holman hypothesis (Fitting 1978a). Fitting created an alternative chronology for the Straits of Mackinac that is divided into the previously mentioned three phases, the oldest of which is the Gyftakis Phase. The
Gyftakis Phase, for which Gyftakis is the type site, is dated from A.D. 100-300 and is a manifestation of the original Laurel Middle Woodland occupation in the Straits region (Fitting 1978b). Following the Gyftakis Phase is the McGregor (20MK102) Phase, and then the Steiner (SIS-29) Phase, both of which, according to Fitting, show increasing population and ceramic regionalization, forming the antecedent of the Late Woodland occupations defined by Mackinac Ware (Fitting 1978a, b).

In 1998 Lovis et al. returned to the issues brought forth in the Lovis-Holman hypothesis. First, the date for the origins of Laurel in the region was pushed back to circa A.D. 1, from the original date of A.D. 400 or later (Lovis et al. 1998; Lovis and Holman 1976). They also used statistical cluster analysis of ceramic attributes from the partially stratified Portage site to determine “the nature of temporal change in ceramics... between Middle and Late Woodland” (Lovis et al. 1998). More specifically Lovis et al. (1998) looked at whether cluster analysis could separate the ceramics into stylistic groupings that reflected temporal change and stratigraphic differentiation. This was possible due to the presence of Middle Woodland Laurel ceramics, Late Woodland Mackinac Ware, and Pine River Ware, which has been interpreted as a transitional ceramic assemblage between the other two (Holman 1978). In fact, the cluster analysis produced four general clusters that correlated with the stratigraphic positions of the pottery, lending statistical support to the idea that Pine River Ware is transitional between earlier Laurel and later Mackinac Ware (Lovis et al. 1998). It is also important to note that as time moves forward there is an increasing regionalization of the pottery at the Portage site (Lovis et al. 1998). This helps support the original Lovis-Holman hypothesis that Late Woodland
develops in situ from an increasing regionalization of Middle Woodland (Fitting 1978a; Lovis et al. 1998; Lovis and Holman 1976).

However, recent work on Laurel has not always included the upper Great Lakes as part of the Laurel Middle Woodland inception. Reid and Rajnovich (1991) attempt to create a map of Laurel through time based on radiocarbon dates. The difficulty is that neither accurate nor complete data exists for all Laurel sites, and many have no associated absolute dates. A second problem is that no absolute dates for Gyftakis are presented in the study done by Reid and Rajnovich (1991). The dates from Gyftakis, including the sample submitted by Fitting and the two secured by the MHC have recently been reanalyzed by Hart and Lovis (2006).

“Three radiocarbon dates are available from the Gyftakis site; one on charcoal from a small hearth (Feature 22), and two on residues from mortuary vessels within an adjacent ossuary (Feature 15) (Table 1, Figure 22). The radiometric date on charcoal from Feature 22 was 1780±80 BP (N-1723; reported as A.D. 170±80 in Fitting 1979). The two AMS dates on residue were from Vessel 1 and Vessel 3 (1960±50 BP, Beta-117173 and 1990±50 BP, Beta-117172 respectively [Beta Analytic, Inc. 1998]). These three dates are not statistically different (df=2, t=5.15) and have a pooled mean of 1943±32 BP.

“In order to assess consistency between similar features from different Laurel Middle Woodland sites we incorporated information reported from the Arrowhead Drive locale at the Juntunen site, located on nearby Bois Blanc Island in the Straits of Mackinac (Bettarel and Harrison 1962; McPherron 1967). The Arrowhead Drive ossuary burial (Feature 45) is almost identical to that at the Gyftakis site (Fitting 1979:110). This burial feature yielded a radiometric date on human bone of 1900±120 BP (M-1392, Crane and Griffin 1965; McPherron 1967). This date is not significantly different from the three Gyftakis site dates (df=3, t=5.27), demonstrating consistency for the ages of similar burial features from related sites. Incorporation of the Arrowhead Drive site date with the three Gyftakis site dates results in a pooled mean age of 1940±31 BP (Hart and Lovis 2006)”
These dates and their new analysis lend further credence to the interpretation offered by Lovis et al. (1998) that Laurel in the region of the Straits of Mackinac is older than previously believed.

Despite the lack of a published site report, Fitting’s work is the latest specific assessment of the Gyftakis site and is still used in describing the Middle Woodland (Brose and Hambacher 1999). With continuing work on Laurel in the Straits of Mackinac and the Traverse Corridor region (Lovis et al. 1998), it becomes increasingly important to provide a catalogue and analysis of the Gyftakis collection to better explain the origins of Laurel in the Straits of Mackinac. The Gyftakis site has also been used in studies regarding the changing nature of population and subsistence within the Straits.
region (Martin 1989; Smith 2004) and to explain the change from Archaic to Middle Woodland Laurel and from Middle Woodland to the Late Woodland in the upper Great Lakes region. This use of the Gyftakis material makes this and further research necessary. Here I intend to provide an accurate understanding of the collection in its current state and prepare the data set in order for it to be accessible to the professional community at large, thus contributing to our understanding of the origins of Laurel in the Straits of Mackinac Region. It is also important to provide an analysis of the ceramics at Gyftakis in order to help understand how Laurel and thus pottery both arrive and change in the upper Great Lakes region.
Chapter III:

COUNTING AND STATISTICS

Cataloging

The analysis began with cataloguing the collection and in the process providing the site assemblage with one simple and intuitive catalogue. All of this is necessary in order for any subsequent analysis. The need to create a single catalogue system and with knowledge that previous (Fitting 1978a) or ongoing (Hart and Lovis 2006) work will be based within the original catalogue system, the IS6 catalogue system was adopted as the sole system for the site. This was done in an attempt to make the work completed on the site as cohesive as possible. To do this it was necessary to re-label about one-third of the collection that was processed under the SIS system. The only substantial problems encountered were that all of Feature 2 is catalogued as a single unit regardless of level or unit of origin, and as it ran north and south across the excavation through several different units, it is difficult to use in an analysis. In addition, all of the features except Feature 15 lacked level numbers (Fitting 1978a).

All artifacts were weighed, counted and measured as necessary. All measurements were metric units. The artifacts were divided into four large groups Lithics, Ceramics, Mineral, and Historical. These categories were then further broken down if it was deemed necessary or possible. The breakdown of artifacts is best
illustrated in the outline below (For a complete list of artifacts please refer to Appendix A.):

- Lithics
  - Lithic Artifacts
    - Bifaces
    - Biface fragments
    - Endscrapers
    - Preforms
    - Retouched flakes
    - Unifaces
    - Utilized flakes
    - Cores
  - Feature Lithics
    - Flakes
    - Shatter
  - Unit Lithics
    - Flakes
    - Shatter

- Ceramics
  - Unit Ceramics
    - Undecorated
    - Decorated
    - Shell Tempered
    - Cordmarked
  - Feature Ceramics
    - Undecorated
    - Decorated
  - Rim Sherds and Vessels
  - Basal Sherds and Misc.
    - Conical Base
    - Basal Sherd
    - Pipe Stem
    - Waddle and Daub

- Minerals
  - Metals (such as copper and iron)
  - Local Rocks
  - Soil Samples

- Historic Material

Lithics were divided by defining a flake as having either a bulb of percussion or a distinct striking platform, followed by separating flakes from shatter and then counting
and weighing them. The lithics were further divided by feature and unit for organizational purposes. The unit lithics were divided into levels; however as all of the features except feature 15 were not divided into levels only feature 15 was thus divided. The ceramic analysis began in much the same way as the lithic analysis in that the sherds were weighed, counted, and categorized according to either feature or unit. Separate from the unit and feature ceramics are the basal sherds, which were catalogued in the same manner as the other ceramics. The ceramic analysis continued with organization of the ceramic sherds into vessels. Organization into vessels was previously done either by Fitting or a subsequent researcher working with the collection. Vessels were defined using rim sherds and identical decorations, meaning that in order to be defined as member of a single a vessel a decorated piece of pottery needed to contain a section of rim or must join with a piece of pottery that contains a section of rim. For the Gyftakis collection, this means of division makes the most sense, as the average sherd weight for non-rim sherds is 3.73g, due in part to the poor preservation qualities of the local soils. The vessel assignment process resulted in 121 vessels numbered 1-122, with vessel 4 being later discounted when it was determined to be part of another vessel. Vessels were first weighed as a whole, then the number of sherds representing each vessel were counted, and finally rim and body thickness were measured. Vessels were then catalogued with the suffix – V#, with the number referring to the vessel number (e.g. IS6-F15-V1).

Minerals were weighed and counted without division into features and units as had been done for ceramics and lithics. Historical material was also weighed and counted in the same fashion as minerals and re-bagged as needed. It is important to note
that artifacts of significance that could not be categorized as lithics or ceramics were
placed in the minerals category; these include copper awls and ingots, soil samples, and a
sampling of locally collected stone.

Statistical Analysis

After the catalogue was complete, a descriptive statistical analysis of the entire
site assemblage was performed with calculations of measures of central tendency and
dispersion. These measures include such statistics as mean and median in an attempt to
give the most accurate description of the collection. While the aforementioned measures
of central tendency and dispersion were included to help describe the collection, the
majority of the statistical work has been done on the ceramics and in particular the
decorative elements present in the ceramic collection. The statistical analysis of the
decorative elements was done to provide insight into the origins of Middle Woodland in
the region. Without a detailed understanding of the ceramics of the Gyftakis collection,
one of the earliest and largest sites in this region, we cannot make interpretations about
the origins of ceramics, and thus Middle Woodland Laurel in the upper Great Lakes.

To accomplish the decorative analysis it was necessary to create a system to
categorize the decorations. After looking at other works in the field and at the
decorations on the vessels of the Gyftakis collection it was decided to create sixteen
separate decorative categories:

DS = Drag Stamping
OD = Oblique Dentate
CC = Crisscross Incision
HD = Horizontal Dentate
VI = Vertical Incision
PS = Pseudo Scalloped Shell
VT = Vertical Tool Impressions
OP = Oblique Pseudo Scalloped Shell
HP = Horizontal Pseudo Scalloped Shell
FN = Finger Nail
BS = Bosses
DC = Dentate Circle
DT = Dentate Triangle
DM = Dentate Semicircle
DQ = Dentate Square
VP = Vertical Pseudo Scalloped Shell

As these decorative techniques are taken from other works they will not be defined here. It is important to note that these decorative elements were chosen for study after careful consideration of the collection and based on the decorations present within the collection (Brose 1970a, b; Fitting and Cushing 1974; Janzen 1968; Lovis, et al. 1998; Mason 1969a, b; Milner 1998; Reid and Rajnovich 1991; Stoltman 1973; Wright 1967). Each vessel was given a binary code for the presence (1) or absence (0) for each decorative variable.

The statistical analysis began by assessing the total number of decorations on each vessel and their average occurrence, as well as the instances of each decoration and the average instance. This was done by performing a chi-square test. The purpose of a chi-square test is "to determine if the observed frequencies of events depart significantly from frequencies proposed by a null hypothesis" (Madrigal 1998). For this study it was important to determine whether the distribution of ceramic decorations or the number of decorations on each vessel was random, so for this case the null hypothesis is that the frequencies are a random distribution. To this end, the averages of both the number of decorations on each vessel and the instances of each decoration were taken, and a chi-square was performed to see if those averages were within the expectation of an average
random distribution. In other words, were the averages of the distribution, the null hypothesis or expected frequencies \( f_e \), different from the actual distribution or the observed frequencies \( f_o \) (Madrigal 1998). The chi square formula follows:

\[
X^2 = \sum \frac{(f_o - f_e)^2}{f_e} \quad \text{across all } a \text{ outcomes, with } \quad df = a - 1
\]

As stated previously, it was assumed that both the number of decorations per vessel and the occurrences of certain decorations were a random distribution. The resulting values show that for the average number of decorations per vessel (1.4545) and the actual number of decorations on each vessel are within the expected averages, with a critical value of 63.54 with 120 degrees of freedom (the entire chi-square calculation is available in Appendix C). Thus we accept the null hypothesis that the number of decorations per vessel is within the accepted range of a random distribution. The results for the instances of each decoration, however, show that the average number of instances (10.94) is not within the expected range. As a result, we can reject the null hypothesis that this is an average random distribution with a 99% confidence interval, as \( p = 0.01 \), and the critical value is 212.57 with 15 degrees of freedom (the entire chi-square calculation is available in Appendix C). The chi-square shows how the number of instances differed from the expected averages. However, a chi-square test cannot tell us where these differences occur within the Gyftakis vessels only that they do. It is this limitation of chi-square that leads us to the rest of the statistical analysis (Vogt 2007).

The next set of statistics that was performed was a \( \Phi \) 4 point correlation. The \( \Phi \) 4 point correlation coefficient is used to determine the degree to which a linear relationship exists between two variables, in this case decorative elements. This test, similar to a Pearson correlation coefficient except for binary coded variables, allows the relationship
to be quantified into a value ranging from -1 to 1 (Madrigal 1998). The only real difference between the two tests is that if binary data is used within a Pearson correlation the significance values will have little meaning as there is no range in between one and zero. Thus a one will only have two possible outcomes, a one or a zero, and for this reason the proximity matrix for a $\Phi$ 4 point correlation contains no significance values. This means that either a decorative technique is a good predictor of another’s presence (positive value) or absence (negative value), and the closer the value is to one the better the predictor. By using the binary chart (Appendix B) and SPSS, a $\Phi$ 4 point correlation was run. The proximity matrix was then analyzed for significant values that showed a correlation between decorative elements. This showed the linear relationships between any two decorative elements by producing a $\Phi$ 4 point correlation coefficient. This coefficient is a number from 1 to -1 that shows the significance of any correlation. A correlation of 1 reflects a perfect positive correlation (100% of the time one decoration will predict another), while a correlation of -1 reflects a perfect negative correlation (100% of the time of one decoration is present the other is absent). Further discussion of the findings can be found in the results chapter (5).

In order to find patterns within the ceramic collection, specifically how larger groups of decorations were related, a cluster analysis was performed. The cluster analysis grouped the decorations into larger decorative clusters based on the correlation of certain decorations. This has allowed for a more detailed analysis of how the decorations interact, creating the specific styles of Laurel pottery seen at the Gyftakis site. In a similar fashion to Lovis et al. (1998), Jaccard coefficient was used in SPSS. Jaccard was chosen over other options as it omits consideration of negative matches. This means for
the cluster analysis in this work, because joint absences are excluded, the analysis will not consider the absence of both PS and DS to be a relationship between the two and instead will focus on when one or both are present (Lovis et. al. 1998; Sneath and Sokal 1973). Much like Lovis et. al. (1998) the statistics were run using binary code within a Jaccard analysis. As previously stated a Jaccard analysis gives no weight to joint absences, but it does give equal weight to matches and non matches. For this analysis the SPSS equivalent of UPGMA (unweighted pair-group method using arithmetic averages) was used, and called between-groups linkage in SPSS. The results of this analysis are presented in chapter 5, and the Jaccard formula is below (Clifford and Stephenson 1975).

\[
\frac{a}{a + b + c} \quad \text{co-occurrences} \quad \frac{\text{total occurrences at either site}}{a + b + c}
\]
Chapter IV:

A FRESH LOOK AT AN OLD SITE

The initial analysis of the Gyftakis collection is available at the MHC and will thus not be repeated in its entirety; instead only differences seen in the current collection will be noted (Fitting 1978a). Also, all record of excavations and the nature of features were contained within the unpublished site report; all other sources of this information are lost. Thus there can be no new analysis of the excavation techniques or feature morphology and interpretations.

Lithics

In the original site report Fitting noted that there were 5,950 lithic fragments (Fitting 1978a). However, in the collection as it currently exists there are only 5,742 specimens weighing 9.42kg. Part of this difference results from the removal of 44 pieces of rock that showed no evidence of human modification; the rest, however, are missing. Many of the lithic artifacts, specifically retouched flakes and cores, seem to have been mixed in with the debitage. Due to damage from storage for 30 years, any retouched flakes that were not previously catalogued separately are considered part of the debitage. This was done due to the difficulty in determining whether retouch was original or the result of 30 years of storage with the rest of the debitage. Several cores have been identified within the debitage assemblage, and will be noted separately but they will remain with the debitage for the sake of simplicity. It is also possible that several pieces
of debitage have been broken into pieces since the original catalogue was created. This overall situation has led to an increased amount of debitage totaling 5,550 without the cores. The addition of the 29 cores brings the total to 5,579 specimens with a weight of 8.37kg.

Figure 5: Gyftakis projectile points. (a) Point 7, (b) Point 9, (c) Point 6, (d) Point 12, (e) Point 11, (f) Point 13, (g) Point 5, (h) Point 4, (i) Point 3, (j) Point 2
The lithic collection consisted of 50 bifacial implements including 13 projectile points, 14 point tips, nine preforms and 14 other biface fragments, according to the original site report (Fitting 1978a). The collection as it exists today contains a total of 33 bifacial implements (Figures 5 and 6). Of the original 13 projectile points noted in Fitting's site report, 10 exist in the collection (Figure 5). Points 1, 8 and 10 are not in the present collection and could not be identified in the debitage. In the existing catalogue, point tips, bases and biface fragments were counted together as biface fragments and totaled 13 (Figure 8). Finally, there are 10 preforms in the current collection as opposed to the nine that Fitting notes in his site report, this may be a result of the addition of a point that was labeled a Hell Gap point but is in truth a preform (Fitting 1978a).

Figure 6: A selection of preforms from the Gyftakis site
The unifacial implements noted in Fitting’s unpublished work included 18 sharp-edged flake knives or side scrapers and 47 endscrapers. Not unexpectedly only nine of the original 18 sharp-edged flake knives or side scrapers are part of the current collection (Figure 7). What is unexpected is that the collection now includes 74 endscrapers, of which three have no provenience (Figure 9). It is impossible to determine if the additional endscrapers were overlooked during the original cataloguing process, or if this is a result of accidental additions from other collections housed at MHC. This is unlikely however as they all contain Gyftakis catalogue numbers, except for the three without provenience.

Figure 7: A selection of Gyftakis unifaces
The rest of the lithic material included in the original catalogue consisted of the 5,265 pieces of unmodified chippage. Fitting sorted the “unmodified chippage” into “flat flakes, blocky flakes, decortication flakes, and flakes of bifacial retouch” (Fitting 1978a). For the purposes of this thesis, the remaining debitage was sorted into flakes and shatter and then further separated by provenience into features and units. Of the remaining lithics 1,291 are from features, including 929 flakes and 362 pieces are shatter; the other 4288 are from the units and not associated with features. The unit lithics are divided into 2172 flakes and 1484 pieces of shatter, as well as 632 pieces that are unprovenienced and were not separated into flakes or shatter. Also, as noted earlier, the difficulty in removing utilized flakes from the collection has resulted in their being added to the lithic debris counts.

Figure 8: A selection of Gyflakis biface fragments
Ceramics

The ceramic assemblage, according to Fitting's site report, contained 3,654 sherds weighing 11.77kg (Fitting 1978a). However, the collection today includes 3,835 sherds, which would seem a huge error were it not for the weight of 11.34kg, leading to the conclusion that the increased number is due to fracturing of sherds during 30 years of movement and storage. Fitting also mentions three shell tempered sherds found on the site along with "numerous trade beads," which he attributes to the Tionontate Huron Village site. Of these only two sherds remain, and the beads are no longer in the collection (Fitting 1978a). The potsherds in the current collection, without reference to vessels, total as follows, with an average sherd weight of 2.63g:

<table>
<thead>
<tr>
<th>Number</th>
<th>Feature</th>
<th>Unit</th>
<th>Total</th>
</tr>
</thead>
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<tr>
<td>Decorated</td>
<td>308</td>
<td>373</td>
<td>681</td>
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<tr>
<td>Undecorated</td>
<td>1638</td>
<td>1206</td>
<td>2844</td>
</tr>
<tr>
<td>Total</td>
<td>1946</td>
<td>1579</td>
<td>3525</td>
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<table>
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<th>Weight</th>
<th>Feature</th>
<th>Unit</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decorated</td>
<td>1352.5g</td>
<td>1256.3g</td>
<td>2608.8g</td>
</tr>
<tr>
<td>Undecorated</td>
<td>3949.6g</td>
<td>2715.2g</td>
<td>6664.8g</td>
</tr>
<tr>
<td>Total</td>
<td>5302.1g</td>
<td>3971.5g</td>
<td>9273.6g</td>
</tr>
</tbody>
</table>

This chart does not contain the four cordmarked and two shell tempered sherds in the collection (A more detailed breakdown is included in Appendix A sections b-i and b-ii). There are in addition six conical bases and one basal sherd that are catalogued separately and total 138.6g in weight.
For the purposes of this thesis, the vessels were separated by rim sherds and reconstructions containing rim sherds. The 121 vessels are made up of 291 sherds weighing 1.84kg. Further reference to the vessels is included in the analysis chapter (Figure 10 and 11).
The minerals section refers to all of the material that is neither lithic, ceramic, nor recent historical. Most of this material is either soil samples, copper or random rocks. There are three soil samples weighing a combined 1kg; they were collected from the bottom of F15, the burial lining of F15, and one midden sample from F2 (it is labeled as such even though Fitting makes no mention of a midden in his site report). Included within this section of the catalogue are all of the copper artifacts associated with the Middle Woodland occupation, except for the copper scraps that can have no definite association with any period. Of the original 11 awls, only four are still part of the collection. What is more curious is that the additional fifth awl that is rounded in design, and is not present at Gyftakis according to Fitting (1978a) (Figure 12c). Although it is possible that this awl is from another site, this seems unlikely as it has a Gyftakis catalogue number on it. As for the copper ingots mentioned in the original report, only a single complete specimen remains (Figure 12f). The same loss of information is seen in
the copper scraps, with only two being in the collection today. One of these specimens is not listed in the original site report.

Figure 11: Vessel 16

Of note is the addition of three historic gun flints to the minerals section; they were catalogued in advance of the rest of the historic material and fit best under minerals (Figure 13). Finally, several pieces of a coal like material are included here; these may or may not relate to the aboriginal occupations of the site.
Historic

The recent historic material in the collection largely consists of modern glass and ceramics and weighs a total of 2.7kg. Several artifacts of note are a piece of imported Japanese ceramics and an iron button. Some of the artifacts may possibly be associated with either the Marquette Mission site occupations or other early historic occupations. These include one Jesuit ring, one tinkling cone, a possible musket ball, and several
historic bottle fragments. Aside from these notable artifacts the rest of the historic material is an assortment of different colored glass, barbed wire, shell casings, bullets, and metal scraps.

Figure 13: Historic material includes three gun flints (a-c), Jesuit ring (d), and a tinkling cone (e)
Chapter V:

THE OUTCOME OF THREE DIFFERENT STATISTICAL ANALYSES

This chapter presents the results of the statistical analyses performed on the ceramic collection. The chi-square test was performed under the assumption that the number of decorations per vessel and the instances of each decoration were of a random distribution and would not deviate from that. This was done by taking the average of both number of decorations per vessel (1.4) and instances of each decoration (10.9) and using that as expected frequencies ($f_e$). The chi-square test showed the average decorations per vessel are within the expected range of a random distribution. As for the instances of each decoration, the chi-square value is 213 with df = 15. Since the critical value at $\alpha = 0.001$ is $x^2 = 37.697$, this shows that this is not a random distribution with a 99.9% confidence interval. The calculations and results of the chi-square can be viewed in Appendix B.

The Φ 4 point correlation test was performed in an attempt to determine the relationships between specific decorations and how well one decoration may predict the absence or presence of another. SPSS returns an $r$ value ranging from -1 to 1, and the closer to 1 the $r$-value is, the stronger the predictor the variable (Pallant 2001). Whether the value is positive or negative only determines if the value predicts the presence (positive) or absence (negative) of the other variable. From the resulting correlation matrix, several correlations have been removed for further analysis. In order to be used a correlation had to have a $p$ value $\leq 0.10$. The values were then subdivided into positive and negative correlations, and also divided into levels of significance, specifically $p$.
values of less than 0.01, less than 0.05, and less than 0.10. Significant $p$ values are shown below.

<table>
<thead>
<tr>
<th>Positive Correlations</th>
<th>Negative Correlations</th>
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<tbody>
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<td>$p$ value</td>
<td>$p$ value</td>
</tr>
<tr>
<td>$&lt; 0.01$</td>
<td>$&lt; 0.10$</td>
</tr>
<tr>
<td>PS - HP</td>
<td>DS - CC</td>
</tr>
<tr>
<td>PS - VP</td>
<td>VT - DC</td>
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<tr>
<td>HP - VP</td>
<td>DT - OD</td>
</tr>
<tr>
<td>VT - DQ</td>
<td>DT - CC</td>
</tr>
</tbody>
</table>

Table 2: Correlations and $p$ value significance chart

The complete correlation matrix is presented in Appendix C, and for that reason only general patterns are discussed here. For the purposes of this work an $r$-value greater than 0.1 was considered significant with a $p$ value of at least less than 0.10. The most statistically significant correlations are those for the class of pseudo scalloped shell decorations; specifically for PS to HP, PS to VP, and between HP and VP. The respective $r$-values are 0.394, 0.275, and 0.279. These $r$-values are shown below in their $r^2$ form with the matching percentages (Pallant 2001). The percentage is a representation of how often (out of 100%) one variable will predict the other (Vogt 2007). While these $r$ values may seem small, it is important to note that with an increasing value of $n$ the more significant smaller $r$ values become (Vogt 2007). These correlations, combined with the negative correlations between the dentate and drag stamp technique and that of the pseudo scalloped shell decorations, show that these two general styles (dentate/drag stamp and pseudo scalloped shell) are largely exclusive as one’s presence tends to predict the other’s absence.
The final statistical analysis performed was a cluster analysis. This was done to determine if and how the ceramic decorations within the collection might be associated with one another. Overall this was part of an attempt to both independently check the results of the correlation analysis, and to see if there were any other clusters within the ceramic collection that were not recognized in earlier analytic stages. A cluster analysis will divide the given class into sub-groups that share related variables from a population; in this analysis, the variables are the decorative styles used on the Gyftakis ceramics. As this is a polythetic agglomerative approach, the resulting categories may not all have the same characteristics, meaning that the statistical function used will separate the decorations into groups based on how strongly they correlate with one another. More importantly this means some groups will have no relations to others at all, because as the analysis progresses the connections and associations between variables become weaker. This analysis was done using the program SPSS to run Jaccard coefficient, using the binary values previously stated (and presented in Appendix C). In order to create the proper variable associations an unweighted pair-group method using arithmetic averages.

<table>
<thead>
<tr>
<th>Decorations</th>
<th>R²</th>
<th>Percentage</th>
</tr>
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<tbody>
<tr>
<td>PS – HP</td>
<td>0.155</td>
<td>15.52%</td>
</tr>
<tr>
<td>VP- OD</td>
<td>0.048</td>
<td>4.84%</td>
</tr>
<tr>
<td>PS – VP</td>
<td>0.076</td>
<td>7.56%</td>
</tr>
<tr>
<td>HP – VP</td>
<td>0.078</td>
<td>7.78%</td>
</tr>
<tr>
<td>OD – PS</td>
<td>0.035</td>
<td>3.53%</td>
</tr>
<tr>
<td>VT – DQ</td>
<td>0.037</td>
<td>3.74%</td>
</tr>
<tr>
<td>DS – CC</td>
<td>0.029</td>
<td>2.86%</td>
</tr>
<tr>
<td>VT – CC</td>
<td>0.028</td>
<td>2.76%</td>
</tr>
<tr>
<td>HP – OD</td>
<td>0.029</td>
<td>2.92%</td>
</tr>
<tr>
<td>VT – DC</td>
<td>0.030</td>
<td>3.03%</td>
</tr>
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<td>DT – OD</td>
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<td>2.79%</td>
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<td>DT – CC</td>
<td>0.028</td>
<td>2.76%</td>
</tr>
</tbody>
</table>

Table 3: Chart of $R^2$ values for decorative correlations and the percentage of variance described by correlations.
(UPGMA or between-group linkage as it is called in SPSS) was used. This approach uses the strength of correlations between decorative elements to determine how they are linked. This means that the stronger linkages such as the afore mentioned pseudo scalloped shell decorations with the strength of their connection become the earliest decorations to be grouped as a correlation (as seen in Appendix E) with other groups resulting later. Also, to create the proper cluster analysis, the clusters were centered on the variables (decorations) as opposed to the cases (vessels), also known as R vs. Q mode analysis. What the resulting dendrogram displays is that the most significant cluster of decorative techniques is that associated with pseudo scallop shell, and the second is associated with the dentate, drag stamp, and tool impressed decorations. More specifically at a significance value of $p = 0.275$ there is only one cluster consisting of PS, HP, and VP. However, if we use the value $p = 0.166$ there are four clusters within the collection, one being the pseudo scalloped shell group. The other three being: VT – DQ, DS – OD – DC, and CC – DT. By the time we drop the $p$ value to 0.04 there are only two clusters: PS – HP – VP – OP and VT – DQ – DS – OD – DC – CC – DT – VI. These results from the cluster analysis confirm the results seen in the correlation analysis, i.e. that there are two slightly distinct decorative groups at the Gyftakis site. Even with a significance value of $p = 0.166$ the Gyftakis ceramics only have four ceramic groupings, three of which become aggregated as the same group at the 0.04 significance level. This is a very small number of clusters for a Middle Woodland Laurel site which, with the increasing regionalization of Middle Woodland Laurel pottery, shows that the Gyftakis site with its wealth of artifacts has very little diversification in the associated pottery

Figure 14: Vessel 2 example of Gyftakis Dentate ceramics

1 cm
Figure 15: Vessel 6, an example of Gyftakis Pseudo-scalloped shell
Chapter VI:

WHAT DOES IT ALL MEAN TO LAUREL?

The primary purpose of this thesis research was to create a basic report for a site assemblage that had apparently not been catalogued. After the preliminary research and the subsequent re-discovery of the Gyftakis site report, the original research goals were expanded to encompass a detailed analysis of the ceramics. The catalogue, as previously mentioned, was in disorder and not at all user-friendly, which leads to one of the more important points of this research, that the cataloguing of archaeological materials must be both descriptive and intuitive. For this reason the re-cataloguing of the collection was done in a simple and descriptive way (using the second of the two cataloguing systems). A descriptive catalogue that is easy to understand will allow future generations of researchers to do further research in as detailed a manner as the original excavators might have done. This brings us to a second important point, that the poor nature of the Gyftakis catalogue and the current absence of any field notes, maps, or pictures are by far the greatest weaknesses of this research, and has lead to a less detailed understanding of the Gyftakis site than one would like. The simple act of proveniencing diagnostic artifacts such as the projectile points or ceramics could have magnified the nature of our interpretations. With all of this in mind, as part of this research project a copy of all associated materials will be given to MHC to catalogue along with the Gyftakis collection itself.

The homogenization of the catalogue allowed for the detailed analysis of ceramics based on vessels and their decorative techniques. The separation of sherds into
minimal vessels seemed a logical first step to facilitate further analysis of those artifacts. Statistical analysis of the ceramic decorations has shown that the Gyftakis site has two different decorative styles of pottery present, with pseudo scalloped shell being the first and dentate/drag stamp being the second. What is most notable is that in most of the other Laurel Middle Woodland sites located in the upper Great Lakes there are usually many more discrete styles of decoration than are present at the Gyftakis site. For example, the North Bay site ceramics have been divided into 17 distinct ceramic styles and Summer Island has 11 separate pottery styles. The Winter site has three it is, however, the smallest of all the site collection, and Naomikong Point (the nearest of the four) has six different styles of Laurel Middle Woodland pottery (Brose 1970a; Janzen 1968; Mason 1969b; Richner 1973). While these numbers may simply be a result of the size or duration of the occupation, or the person classifying the ceramic materials, it has been shown that over time ceramic decorations diversify and become more regionalized (Lovis et al. 1998).

The Gyftakis ceramics bear the closest resemblance to the assemblage from Naomikong Point, as both sites show the same negative correlation for pseudo-scalloped shell techniques and drag stamping (Janzen 1968). Specifically, the Laurel pseudo-scalloped shell at Naomikong Point seems to be similar to the pseudo-scalloped shell pottery seen at Gyftakis. However, at Naomikong Point there is an association between bossing and pseudo-scalloped shell techniques that is not seen at Gyftakis, and the rest of the ceramics from Naomikong Point (Janzen 1968) seem to bear little resemblance to the Gyftakis assemblage. There is still, however, the issue of there being fewer distinct groups than are observed at other sites.
The stylistic and regional diversification of Laurel pottery is a trend that can be traced through time. This is seen in analyses such as Lovis et al. (1998), which used similar statistical techniques as those used here and which revealed the increasing regionalization of pottery decoration in later Laurel Middle Woodland time periods. These temporal changes in ceramics mean that as time progresses closer to the Late Woodland, pottery tends to become more regionalized and diverse. This seems to support the idea that the Gyftakis site may be one of the earliest Middle Woodland sites in the region (Fitting 1978a, b). It is also not as Fitting (Fitting 1978a, b) initially suggested, a trading post with Hopewellian people to the south, as there is no real evidence of any relation between Gyftakis and Hopewellian peoples. As it is stated in the Chillicothe Conference discussion section by Brose it is more likely that the trade routes are around the Wisconsin side of Lake Michigan (pg. 140; Brose and Greber 1979). It is more likely that, as the Lovis – Holman hypothesis suggests, Middle Woodland Laurel develops in situ from the earlier Late Archaic cultures. And, while some of the Lovis – Holman hypothesis has been shown to be in error, specifically the idea that Middle Woodland and the population boom was a result of a change in subsistence strategies, the general principals of the Lovis – Holman hypothesis were correct (Lovis and Holman 1976). While the population boom did occur it has been shown by Cleland (1982, 1989), Martin (1989), and Smith (2004) that it did not happened at the inception of the Middle Woodland in the upper Great Lakes Region as Lovis and Holman initially suggested. It is interesting to note that the dating of the population boom at approximately 400 A.D. was correct, however, it did not coincide with the adoption of pottery.
The early age of the Gyftakis site is also supported by both conventional \(^{14}\)C date and the AMS dates done by Beta Analytic, Inc. These three dates place the primary Middle Woodland Laurel feature to: cal AD 7 (Hart and Lovis 2006). It is entirely plausible given the age and location of Gyftakis, that this is one of the earliest sites in the upper Great Lakes region with a material assemblage containing pottery. Unfortunately, without further investigations or evidence, the reasons behind the sudden adoption of pottery amongst Late Archaic people prompting the change into Laurel Middle Woodland is still elusive.

The time of transition from the Late Archaic to Middle Woodland is notable for the adoption of pottery. It is for this reason that archaeologists have continued to discuss the reasons for and motivations behind these changes. It is unknown if the cause of this shift in material culture was spurred by change in subsistence strategies, contact with Hopewellian peoples, migrations into the upper Great Lakes region, or if this is an in situ adoption of pottery by the peoples of the region devoid of outside influence (Brashier, et al. 2000; Cleland 1982, 1989; Fitting 1978b; Martin 1989; Smith 2004). While it is unlikely that due to the lack of a cultural vacuum these cultural changes resulted from no external influences, it is impossible to know for sure at this point. However, if it is possible to temporally and locally track these changes in material culture, specifically the increasing regionalization of ceramic styles, we may be able to start drawing more significant conclusions about the origins of the Middle Woodland within the upper Great Lakes region.
### Appendix A

### Catalogue

#### Section a

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<th>Cat #</th>
<th>Desc.</th>
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| Totals        | Cordmarked   | 25.9       | 1%           | 0%        | 4                | 0%   |        |            |
| Totals        | Shell Tempered | 32.6     | 1%           | 0%        | 2                | 0%   |        |            |
| Totals        | Undecorated  | 2715.2     | 67%          | 76%       | 1206             | 76%  |        |            |
| Totals        | All          | 4030       | 100%         | 100%      | 1585             |      |        |            |

### ii. Feature Ceramics

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Average Sherd Weight = 3.83335085

Total Decorated = 1352.5, 26% of Total
Total Undecorated = 3949.6, 74% of Total
Total All = 5302.1, 100% of Total
### iii. Rim Sherds and Vessels

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iv. Basal Sherds

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Key: G=Glass, SN=Square Nail, WN=Wire Nail, MB=Musket Ball, BC=Bottle Cap, MS=Metal Scrap, UK=Unknown, MC=Modern Ceramics, P=Plastic, B=Brick, SG=Shingle, BW=Barb Wire, BT=Bullet, SC=Screw
### Appendix B

#### Vessels with Ceramic Decorations

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| $f_0$ | 30 | 49 | 5 | 9 | 6 | 17 | 5 | 10 | 5 | 5 | 1 | 15 | 5 | 1 | 4 | 8 | 175 |
|-------|----|----|---|---|---|-----|---|----|---|---|---|-----|---|---|---|---|----|-----|
| $f_e$ | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| $(f_0-f_e)^2$ | 363 | 1449 | 35.3 | 3.75 | 24.4 | 36.8 | 35.3 | 0.88 | 35.3 | 35.3 | 98.8 | 16.5 | 35.3 | 98.8 | 48.1 | 8.63 | 33.2 | 132 |
| $(f_0-f_e)^2/f_e$ | 33.2 | 132 | 3.22 | 0.34 | 2.23 | 3.36 | 3.22 | 0.08 | 3.22 | 3.22 | 9.03 | 1.51 | 3.22 | 9.03 | 4.4 | 0.79 | 213 | 15 |
### Appendix D

#### Correlation Analysis Results

**Proximity Matrix**

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Appendix E

Cluster Analysis Results

Proximities

Case Processing Summary

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a. Value different from both 1 and 0.

b. Absolute Jaccard Measure used

Cluster

Average Linkage (Between Groups)

Agglomeration Schedule

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Dendrogram

* * * * * H I E R A R C H I C A L C L U S T E R A N A L Y S I S * * * * *

Dendrogram using Average Linkage (Between Groups)

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Rescaled Distance Cluster Combine
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