Agricultural Production Information

Figure 1. 1806 District 5 tax sample divided by landholding groups.
Figure 2. 1826 District 5 tax sample divided by landholding groups.

Figure 3. 1851 District 5 tax sample divided by landholding groups.
Figure 4. 1882 District 2 tax sample divided by landholding groups.

Figure 5. Average tobacco production, 1850–1900.
Figure 6. Average pork production, 1850–1900.

Figure 7. Average corn production, 1850–1900.
Figure 8. Total wheat and oats produced in Knox County, 1840–1940.

Figure 9. Livestock production in Knox County, 1840–1940.
Figure 10. Average butter production, 1850–1940.

Figure 11. Total tobacco grown in Knox County, 1840–1940.
Figure 12. Average cheese production, 1850–1910.

Figure 13. Average sheep production, 1850–1910.
Figure 14. Average wool production, 1850–1910.

Figure 15. Average wheat production, 1850–1910.
Figure 16. Consumption and surplus levels for the Gibbs community based on the results of cliometric analysis, 1850–1880.

Figure 17. Consumption and surplus levels for the Gibbs family based on cliometric analysis, 1850–1880.
Figure 18. Comparison of the Gibbs family and District 5 cliometric values, 1850–1880.

Figure 19. Cliometric values for human subsistence at the Gibbs farmstead.
Probate Inventory Analysis

Information

Figure 1. Distribution of 1807 inventory sample by wealth groups.
Figure 2. Distribution of 1820 inventory sample by wealth groups.

Figure 3. Distribution of 1852 inventory sample by wealth groups.
Figure 4. Distribution of 1807 inventory sample by consumption category and wealth groups.

Figure 5. Distribution of 1820 inventory sample by consumption category and wealth groups.
Figure 6. Distribution of 1852 inventory sample by consumption category and wealth groups.

Figure 7. Distribution of 1807 inventory sample by kitchen goods and wealth groups.
Figure 8. Distribution of 1820 inventory sample by kitchen goods and wealth groups.

Figure 9. Distribution of 1852 inventory sample by kitchen goods and wealth groups.
Table 1. Total Artifact Assemblage by Functional Analysis Categories

<table>
<thead>
<tr>
<th>Recovery context</th>
<th>Total artifacts</th>
<th>UID* artifacts</th>
<th>Faunal fragments</th>
<th>Kitchen group</th>
<th>Arch. group</th>
<th>Furn. group</th>
<th>Arms group</th>
<th>Cloth. group</th>
<th>Pers. group</th>
<th>Tobacco group</th>
<th>Activities group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Assemblage</td>
<td>20,319</td>
<td>8,506</td>
<td>3,530</td>
<td>3,772</td>
<td>2,905</td>
<td>243</td>
<td>48</td>
<td>710</td>
<td>111</td>
<td>3</td>
<td>491</td>
</tr>
</tbody>
</table>

*UID refers to functionally unidentified artifacts

Table 2. Artifact Assemblage by Frequency, Recovery Contexts, and Functional Categories

<table>
<thead>
<tr>
<th>Recovery context</th>
<th>Total artifacts</th>
<th>UID* artifacts</th>
<th>Faunal fragments</th>
<th>Kitchen group</th>
<th>Arch. group</th>
<th>Furn. group</th>
<th>Arms group</th>
<th>Cloth. group</th>
<th>Pers. group</th>
<th>Tobacco group</th>
<th>Activities group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Assemblage</td>
<td>20,319</td>
<td>8,506</td>
<td>3,530</td>
<td>3,772</td>
<td>2,905</td>
<td>243</td>
<td>48</td>
<td>710</td>
<td>111</td>
<td>3</td>
<td>491</td>
</tr>
<tr>
<td>Midden</td>
<td>15,435</td>
<td>7,554</td>
<td>1,239</td>
<td>2,817</td>
<td>2,436</td>
<td>211</td>
<td>41</td>
<td>590</td>
<td>93</td>
<td>3</td>
<td>451</td>
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<td>Feature 16</td>
<td>3,112</td>
<td>152</td>
<td>2,140</td>
<td>509</td>
<td>177</td>
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<td>7</td>
<td>105</td>
<td>2</td>
<td>0</td>
<td>4</td>
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<tr>
<td>Other</td>
<td>796</td>
<td>410</td>
<td>67</td>
<td>180</td>
<td>108</td>
<td>8</td>
<td>0</td>
<td>6</td>
<td>9</td>
<td>0</td>
<td>8</td>
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<tr>
<td>Features</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>PHTs</td>
<td>572</td>
<td>199</td>
<td>84</td>
<td>125</td>
<td>134</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>24</td>
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<tr>
<td>General Provenience</td>
<td>404</td>
<td>191</td>
<td>0</td>
<td>141</td>
<td>50</td>
<td>3</td>
<td>0</td>
<td>9</td>
<td>6</td>
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*UID refers to functionally unidentified artifacts
Table 3. Steps Required to Conduct Time Sequence Analysis with Systematic Site Survey Data

<table>
<thead>
<tr>
<th>Step</th>
<th>Tasks</th>
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<tbody>
<tr>
<td>1</td>
<td>Calculate a mean artifact date (MAD) for each positive test.</td>
</tr>
<tr>
<td>2</td>
<td>Chronologically sort all dated tests. Total all artifacts by decade using decade intervals, e.g., 1800:1800 to 1809; 1810:1810 to 1819, etc.,</td>
</tr>
<tr>
<td>3</td>
<td>Calculate average artifact density for each decade by dividing the total number of artifacts for a specific decade by the number of positive tests for each decade that produced a MAD. This step serves to quantitatively smooth the artifact distribution.</td>
</tr>
<tr>
<td>4</td>
<td>Plot the per decade artifact density and household cycle together on a line graph by decade intervals and visually match the two distributions. If needed, increase the scale of the household cycle by one or two decimal places until it is comparable to the artifact distribution.</td>
</tr>
<tr>
<td>5</td>
<td>Conduct correlation analysis with Spearman’s r using the household cycle (with the original household size) and the artifact distribution as variables. Significant results indicate that the two distributions have been chronologically synchronized.</td>
</tr>
</tbody>
</table>

Table 4. Dates and Sources Used to Calculate Mean Artifact Dates

<table>
<thead>
<tr>
<th>Artifact types</th>
<th>Median date</th>
<th>Date range</th>
<th>Sources</th>
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</thead>
<tbody>
<tr>
<td>Porcelain</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canton</td>
<td>1815</td>
<td>1800–1830</td>
<td>South 1977:212</td>
</tr>
<tr>
<td>overglaze enameled</td>
<td>1730</td>
<td>1660–1800</td>
<td>South 1977:212</td>
</tr>
<tr>
<td>underglaze blue</td>
<td>1730</td>
<td>1660–1800</td>
<td>South 1977:212</td>
</tr>
<tr>
<td>handpainted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>general</td>
<td>1880</td>
<td>1790–1970</td>
<td>Site Specific*</td>
</tr>
<tr>
<td>Stoneware</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>brown (English)</td>
<td>1860</td>
<td>1820–1900+</td>
<td>South 1977:212</td>
</tr>
<tr>
<td>alkaline glazed</td>
<td>1860</td>
<td>1820s–1890s</td>
<td>Greer 1981:264</td>
</tr>
<tr>
<td>salt glazed exterior and interior</td>
<td>1834</td>
<td>1792–1875</td>
<td>Lebo 1987:130; Site Specific</td>
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</table>

(cont.)
Table 4. Dates and Sources Used to Calculate Mean Artifact Dates (cont.)

<table>
<thead>
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<th>Artifact types</th>
<th>Median date</th>
<th>Date range</th>
<th>Sources</th>
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<tr>
<td>Bristol glazed exterior</td>
<td>1915</td>
<td>1890–1940</td>
<td>Carnes 1977:212;</td>
</tr>
<tr>
<td>and interior</td>
<td></td>
<td></td>
<td>Greer 1981:264;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bartovics 1981:203;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Lebo et al. 1988:136</td>
</tr>
<tr>
<td>salt glazed, general</td>
<td>1865</td>
<td>1792–1938</td>
<td>Site Specific</td>
</tr>
<tr>
<td>Earthenware</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ridge and Valley redware</td>
<td>1835</td>
<td>1785–1885</td>
<td>Smith and Rogers 1979;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Site Specific; this study</td>
</tr>
<tr>
<td>Creamware</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>undecorated</td>
<td>1791</td>
<td>1762–1820</td>
<td>South 1977:212</td>
</tr>
<tr>
<td>annular ware</td>
<td>1798</td>
<td>1780–1815</td>
<td>South 1977:212</td>
</tr>
<tr>
<td>enameled overglaze</td>
<td>1788</td>
<td>1765–1810</td>
<td>South 1977:212</td>
</tr>
<tr>
<td>Pearlware</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>undecorated</td>
<td>1805</td>
<td>1780–1830</td>
<td>South 1977:212</td>
</tr>
<tr>
<td>transfer printed</td>
<td>1818</td>
<td>1795–1840</td>
<td>South 1977:212</td>
</tr>
<tr>
<td>polychrome, fine line</td>
<td>1805</td>
<td>1795–1815</td>
<td>South 1977:212</td>
</tr>
<tr>
<td>polychrome, broad line</td>
<td>1830</td>
<td>1820–1840</td>
<td>South 1977:212</td>
</tr>
<tr>
<td>underglaze blue</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>handpainted</td>
<td>1800</td>
<td>1780–1820</td>
<td>South 1977:212</td>
</tr>
<tr>
<td>edge decorated</td>
<td>1810</td>
<td>1800–1820</td>
<td>South 1977:212</td>
</tr>
<tr>
<td>edge decorated, rococo</td>
<td>1798</td>
<td>1785–1810</td>
<td>Miller and Hunter 1990</td>
</tr>
<tr>
<td>edge decorated, neoclassical</td>
<td>1820</td>
<td>1810–1830</td>
<td>Miller and Hunter 1990</td>
</tr>
<tr>
<td>edge decorated, embossed relief</td>
<td>1810</td>
<td>1800–1820</td>
<td>South 1977:212</td>
</tr>
<tr>
<td>mocha</td>
<td>1843</td>
<td>1795–1890</td>
<td>South 1977:212</td>
</tr>
<tr>
<td>annular wares</td>
<td>1805</td>
<td>1790–1820</td>
<td>South 1977:212</td>
</tr>
<tr>
<td>Whiteware</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>undecorated</td>
<td>1900</td>
<td>1820–1980</td>
<td>South 1977:212; Site Specific</td>
</tr>
<tr>
<td>transfer printed</td>
<td>1865</td>
<td>1830–1900</td>
<td>South 1977:212; Majewski and O’Brien 1987</td>
</tr>
<tr>
<td>light blue</td>
<td>1848</td>
<td>1831–1865</td>
<td>Bartovics 1981:203</td>
</tr>
<tr>
<td>red, green, brown</td>
<td>1839</td>
<td>1828–1850</td>
<td>Majewski and O’Brien 1987</td>
</tr>
<tr>
<td>later style</td>
<td>1886</td>
<td>1856–1915</td>
<td>Bartovics 1981:203</td>
</tr>
<tr>
<td>edge decorated</td>
<td>1845</td>
<td>1830–1860+</td>
<td>Smith 1983</td>
</tr>
<tr>
<td>edge decorated, nonscalloped rim, relief, thin band</td>
<td>1850</td>
<td>1840–1860</td>
<td>Miller and Hunter 1990</td>
</tr>
<tr>
<td>edge decorated, nonscalloped rim, no relief, thin band</td>
<td>1875</td>
<td>1860–1890</td>
<td>Miller and Hunter 1990</td>
</tr>
<tr>
<td>handpainted</td>
<td>1865</td>
<td>1830–1900</td>
<td>Bartovics 1981:203</td>
</tr>
<tr>
<td>mocha</td>
<td>1850</td>
<td>1830–1870+</td>
<td>Smith 1983</td>
</tr>
<tr>
<td>annular</td>
<td>1865</td>
<td>1830–1900</td>
<td>Bartovics 1981:203</td>
</tr>
<tr>
<td>flow blue</td>
<td>1870</td>
<td>1840–1900</td>
<td>Bartovics 1981:203</td>
</tr>
</tbody>
</table>
Table 4. Dates and Sources Used to Calculate Mean Artifact Dates (cont.)

<table>
<thead>
<tr>
<th>Artifact types</th>
<th>Median date</th>
<th>Date range</th>
<th>Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>sponge</td>
<td>1850</td>
<td>1830–1870</td>
<td>Bartovics 1981:203</td>
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<tr>
<td>cut sponge</td>
<td>1880</td>
<td>1840–1920</td>
<td>Finlayson 1972:55</td>
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<tr>
<td>molded/embossed</td>
<td>1870</td>
<td>1840–1900</td>
<td>Lewis and Haskell 1981:124</td>
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<td>decal</td>
<td>1925</td>
<td>1900–1950</td>
<td>Bartovics 1981:203</td>
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<tr>
<td>gilded</td>
<td>1925</td>
<td>1870–1980</td>
<td>Miller 1991:10; Site Specific</td>
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<tr>
<td>hotel ware</td>
<td>1913</td>
<td>1875–1950</td>
<td>Miller 1991:7</td>
</tr>
<tr>
<td>Ironstone</td>
<td></td>
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<tr>
<td>undecorated</td>
<td>1915</td>
<td>1850–1980</td>
<td>Smith 1983; Site Specific</td>
</tr>
<tr>
<td>molded or embossed</td>
<td>1865</td>
<td>1840–1890</td>
<td>Lewis and Haskell 1981:124</td>
</tr>
<tr>
<td>Yellow ware</td>
<td>1880</td>
<td>1830–1930</td>
<td>Smith 1983</td>
</tr>
<tr>
<td>Curved Glass</td>
<td></td>
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</tr>
<tr>
<td>dark green</td>
<td>1839</td>
<td>1792–1885</td>
<td>Newman 1970; Site Specific</td>
</tr>
<tr>
<td>milk</td>
<td>1938</td>
<td>1890–1980</td>
<td>IMACS 1984:472.4; Site Specific</td>
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<tr>
<td>aqua</td>
<td>1855</td>
<td>1800–1910</td>
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<td>light green</td>
<td>1920</td>
<td>1860–1980</td>
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<tr>
<td>amber</td>
<td>1920</td>
<td>1860–1980</td>
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<tr>
<td>cobalt</td>
<td>1935</td>
<td>1890–1980</td>
<td>IMACS 1984:472.4; Site Specific</td>
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<tr>
<td>clear</td>
<td>1928</td>
<td>1875–1980</td>
<td>IMACS 1984:472.4; Site Specific</td>
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<tr>
<td>carnival</td>
<td>1915</td>
<td>1890–1940</td>
<td>Deiss 1981:66</td>
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<tr>
<td>Depression</td>
<td>1930</td>
<td>1920–1940</td>
<td>Klamkin 1973:1</td>
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<tr>
<td>color label</td>
<td>1957</td>
<td>1934–1980</td>
<td>Jones and Sullivan 1985:16; Site Specific</td>
</tr>
<tr>
<td>3-piece plate bottom mold</td>
<td></td>
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<tr>
<td>improved tool finish</td>
<td>1887</td>
<td>1858–1915</td>
<td>Deiss 1981:91</td>
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<td>Architectural Artifacts</td>
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<td>IMACS 1984</td>
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<td>IMACS 1984</td>
</tr>
<tr>
<td>window glass</td>
<td></td>
<td>by fragment</td>
<td>Moir 1987b</td>
</tr>
</tbody>
</table>

*Site Specific: for artifacts with long manufacture date ranges, the initial or terminal manufacture dates were adjusted to parallel historically known initial or terminal occupation dates for the site. This adjustment was made to refine the artifact based chronology of the site.
### Table 5. Steps Required to Conduct Time Sequence Analysis with Site Excavation Data

<table>
<thead>
<tr>
<th>Step</th>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Calculate a mean artifact date (MAD) for each excavation level in all units. For lower levels with fewer artifacts that produce mean artifact dates later than upper levels, merge the lower level with the immediately adjacent upper level to produce a chronology for each unit that is temporally sequenced. The excavation levels for all undisturbed units should sequentially increase in age with depth.</td>
</tr>
<tr>
<td>2</td>
<td>Chronologically sort all excavation levels and feature proveniences by year for the entire assemblage.</td>
</tr>
<tr>
<td>3</td>
<td>Total artifacts by decade intervals, e.g., 1800:1800 to 1809; 1810:1810 to 1819, etc., and plot the per decade artifact total on a line graph along with the household cycle. This step smoothes the distribution and makes it comparable to household information from population censuses. Increase the scale of the household cycle in the graphs by one or two decimal places as needed to make it comparable to the artifact distribution.</td>
</tr>
<tr>
<td>4</td>
<td>Conduct correlation analysis using Spearman’s $r$ with the household cycle (with the original household size) and the artifact distribution as the analysis variables. Significant results indicate that the two distributions have been chronologically synchronized.</td>
</tr>
<tr>
<td>5</td>
<td>Create artifact data subsets based on artifact groups and types; repeat step 4 with different data sets.</td>
</tr>
</tbody>
</table>
Adams, William H.  

Baker, Christopher W.  

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Ball, Richard A.  

Barber, Edwin A.  

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Deetz, James

Deiss, Ronald W.

Demos, John

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Dix, Keith

Dunaway, Wilma A.

Eaton, Allen

Edwards, Jay D. and Tom Wells

Effland, Anne B. W., Denise M. Rogers, and Valerie Grim

Emmanuel, Arghiri
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