Donald Gaylord and Derek Wheeler Monticello Department of Archaeology



The Stewart-Watkins Site

historical and archaeological background

Located on the southern slope of Monticello Mountain, the Stewart-Watkins site is named for its two primary occupants: William Stewart, a blacksmith, and Elisha Watkins, a carpenter. Documentary evidence suggests that Stewart, along with his family, arrived in 1801 and stayed until 1809.

Watkins – another itinerant white worker – moved in shortly after Stewart's departure, but only lived at the site for a year. The dwelling appears to have been abandoned and dismantled following Watkins' departure in 1810 (Betts 1987: 425, 444, Oberg et al. 2008: 676, Heath 1991b:3).

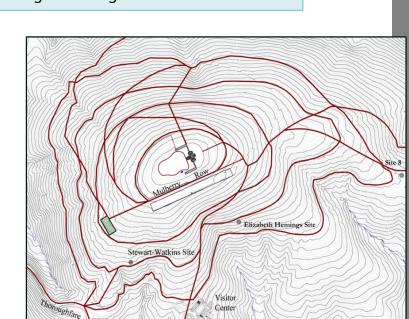


Stewart-Watkins Site, house outline added in orange.

Heath's spatial analysis of the area in and immediately around the dwelling suggested that the western portion of the building was used by Stewart as storage for "...stockpiling scraps of metal and unfinished tools [out of] the scrutiny of Jefferson" while the eastern portion represented a concentration of domestic artifacts (1999c: 209-210). In terms of social status, the artifact assemblage at the Stewart-Watkins Site contained "...unvaried and worn ceramics, limited faunal remains indicative of a relatively monotonous meat diet, and a quantity of salvaged industrial materials and tools...[which] point...toward scarcity and economic powerlessness" (Heath1999c:208,



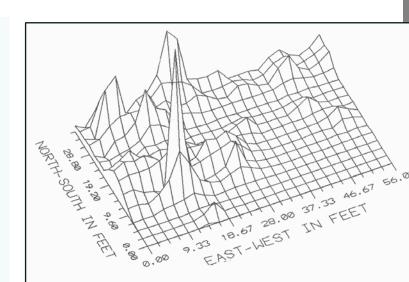
Stewart-Watkins Site, under excavation, showing landscape to the north of the house.



Stewart-Watkins Site situated in the Monticello landscape

Dr. Barbara Heath headed the excavation of the site and her subsequent analysis of the architectural remains led to several conclusions (Heath 1999c: 208-209).

- •The *materials* used for the building reflected the impermanent status of transient white workmen employed by Jefferson.
- •The *construction details* such as the raised, wooden floor provided a greater degree of safety and convenience for the workmen than that enjoyed by their enslaved counterparts.
- •The *size* of the building established the status of its occupants clearly above that of the enslaved folks at Monticello



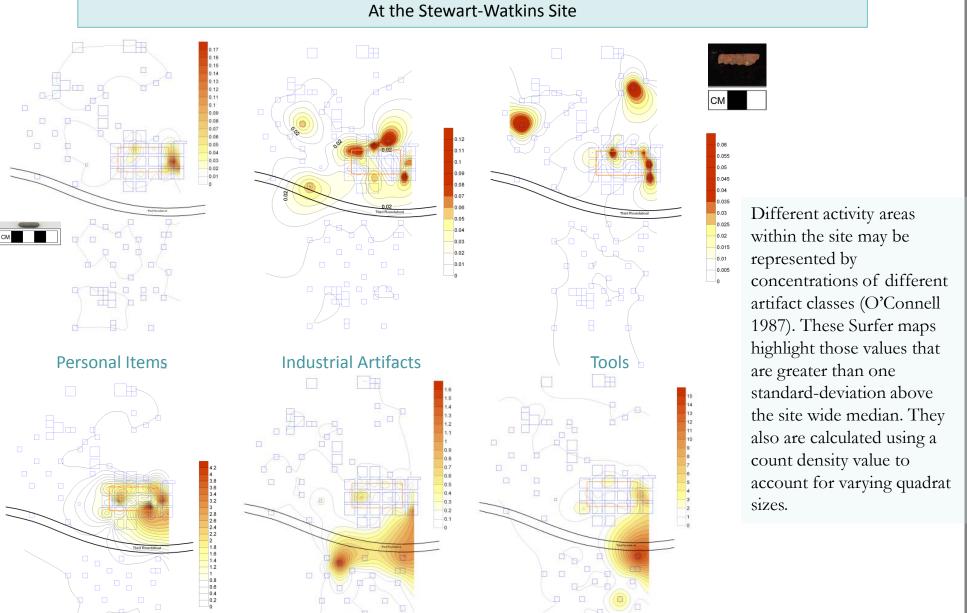
0.3. SURFER distribution map of industrial artifacts at the Stewart-Watkins house

From Heath 1999c

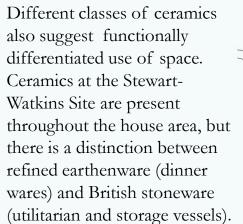
This poster will expand on Heath's work to include an analysis of the quadrats excavated in the areas to the north, west, and south of the domestic structure with a hope of identifying additional activity areas at the site. Also, we will compare the Stewart-Watkins site to more recently excavated slave-quarter sites at Monticello using artifact size distribution as a means for identifying differential use of space.



Spatial Structure of Artifact Classes



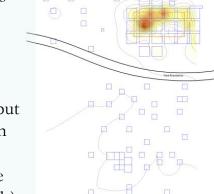




Wine Bottle Glass-

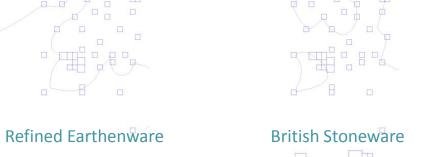
Ceramic Index

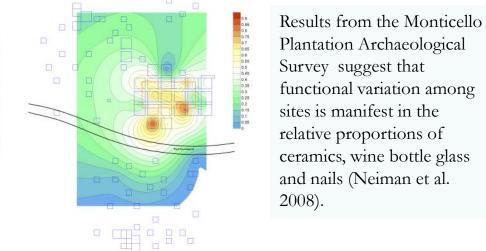
Window Glass



Wrought Nail-

Ceramic Index



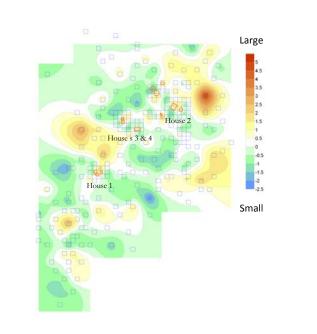


Window Glass-

Wrought Nail Index

Chinese Porcelain

Artifact Size and Spatial Structure



Site 8 Ceramic ASt

allowing for the maintenance of yard space.

Stewart-Watkins Ceramic ASt

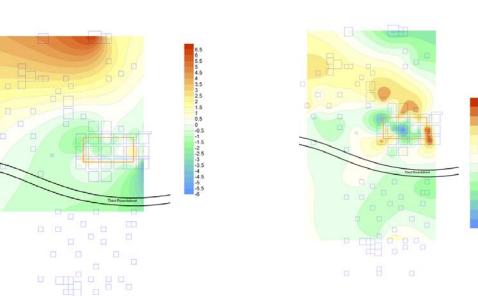
Site 8 Wine Bottle ASt

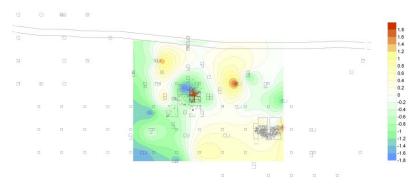
Research by Dr. Sara Bon-Harper (2009) shows that the spatial arrangement of artifact size at the 18th century domestic sites of enslaved African Americans reflects the maintenance of yard space. Her work relies on a measure of artifact size (ASI) based on artifact counts and a binomial approximation of the Gaussian distribution using the proportion of small artifacts in an assemblage

$$ASI = \frac{n_{i_{small}} - (n_{i_{total}} * P_{sitewidesmall}) - .5}{\sqrt{n_{i_{total}} * P_{sitewidesmall} * (1 - P_{sitewidesmall})}}$$

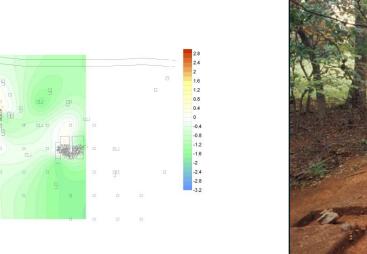
A new measure, developed by Dr. Fraser Neiman (2010), uses a continuous measure of artifact size, in this case the maximum sherd measurement, and the T-distribution to compare the assemblage mean artifact size to the site-wide mean size.

$$ASt = \frac{\overline{x}_i - \overline{\overline{X}}_S}{s_s / \sqrt{n_i}}$$





Elizabeth Hemings Wine Bottle ASt



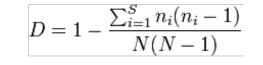
Elizabeth Hemings Ceramic ASt



Elizabeth Hemings Site, showing the excavations immediately around the lone identified dwelling (tree growing through hearth).

Diversity and Richness

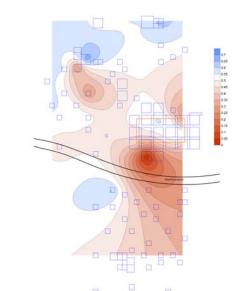
Research by Boone (1987) and Wheeler and Bon-Harper (2005) has shown that diversity and richness of artifact assemblages may point to the intentional disposal of artifacts in



Simpson's Diversity Index.

Stewart-Watkins			Site 8			Elizabeth Hemings		
Simpson's Diversity	0.545			0.386			0.269	
Richness	46			41			10	

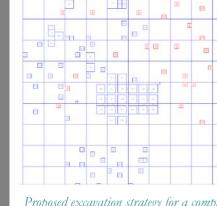
Also, when accounted for sample size, the richness of an assemblage can say something about the nature of consumption at a site as compared to another site. These values are based on the general artifact assemblage as defined by DAACS.



Discussion and Future Research



south-facing slopes where most free and



Proposed excavation strategy for a complete

The concentrations of tools and industrial artifacts to the northwest of the house and the higher proportion of brick and nails south of the third roundabout indicate the presence of additional activity areas at the Stewart-Watkins site. The main pattern of difference with regard to artifacts size between Site 8 and Stewart-Watkins is represented in the distribution of large ceramics immediately surrounding the house at Stewart-Watkins Whereas at Site 8 the larger ceramics and wine bottle glass exhibit the same pattern of removal to the periphery of the site. This may reflect a differential use of exterior space or a possible difference in the perceived interference potential between glass

For any spatial analysis to be successful, a sample that provides full coverage across the artifact scatter must be employed. Recent work at Monticello, including that done at Site 8, has employed a stratified random sample. Since only the north, west, and south of the Stewart-Watkins house were sampled a number of additional quadrats would need to be excavated along the eastern side of the site. As well, large gaps in the current sample would need to be filled in with quadrats, particularly immediately to the atified random sample at Stewart-Watkins. northeast of the domestic structure.

987 [1953] Thomas Jefferson's Farm Book with Commentary and Relevant Extracts from Other Writings. University Press of Virginia, Charlottesville, Virginia. 1987 Defining and Measuring Midden Catchment. American Antiquity 52(2): 336-345.

2009 "Spatial Variation and Activity Areas at Monticello's Site 8" Poster presented at the annual meeting of the Society for American Archaeology, Atlanta, Georgia. .991a Artisan Housing at Monticello: The Stewart/Watkins Site. Quarterly Bulletin of the Archaeological Society of Virginia 46(1):10-19.

1991b A Report on the Archaeological Excavations at Monticello, Charlottesville: The Stewart/Watkins House 1989-1990. Manuscript on File at the Department of Archaeology, Thomas Jefferson Foundation, Charlottesville, Virginia.

.999c "Your Humble Servant": Free Artisans in the Monticello Community. In "I, Too, Am America" Archaeological Studies of African-American Life, edited by Theresa A.

1997 Archaeology at Monticello: Artifacts of Everyday Life in the Plantation Community. Monticello Monograph Series. Thomas Jefferson Foundation, Charlottesville,

2008 Measuring Settlement Pattern Change on the Monticello Plantation Home Farm. Unpublished paper presented at the Annual Meeting of the Society for Historical

2010 Three Ways to Measure Artifact Size Sorting. Manuscript on file at the Department of Archaeology, Thomas Jefferson Foundation, Charlottesville, VA. Neiman, Fraser D., Karen Smith, Derek Wheeler and Sara Bon-Harper

Archaeology, Albuquerque, New Mexico. On file at the Department of Archaeology, Thomas Jefferson Foundation, Charlottesville, Virginia. Oberg, Barbara, ed.

2008 The Papers of Thomas Jefferson. Volume 35, 1 August to 30 November 1801. Princeton University Press, Princeton, New Jersey. 1987 Alyawara Site Structure and its Archaeological Implications. American Antiquity 52 (1):74-108.

1005 "Site Characterization: The Definition of Archaeological Sites using Plowzone Excavation Data" Poster presented at the annual meeting of the Society for American