# Studies of Colonoware Variability in Virginia and South Carolina

## Introduction







When we plot mean sherd thickness and the estimated midpoint occupation date for each site, we see no evidence of change in thickness through time among the Virginia sites. We do see, however, that South Carolina sherds are thicker than Virginia sherds.



Further, the histograms above also show that Virginia sherds are thinner than South Carolina sherds. The 1-millimeter difference is statistically significant (p < .0001).

Now let's investigate our second proposition.

# Decoration and Burning

Our second proposition relates to time investment in pottery making, which can be measured a number of ways. Here, we consider burnishing and other decorations, listed below, to be indicative of greater effort invested than smoothed or otherwise unmodified vessel surfaces.

When a vessel is burnished, a tool such as a stone is rubbed against its surface while leather-hard, compressing the walls of the vessel slightly. Since we established that the overall mean thickness for Virginia sherds is thinner than for South Carolina, does this translate into more burnished vessels in Virginia than in South Carolina?

Decoration by Region							14.	
	Burnished	Cut	Impressed	Incised	Slipped	Stamped	Total	
Virginia	264 (89%)	21 (7%)	4 (1%)	4 (1%)	2 (<1%)	1 (<1%)	296	
South Carolina	19 (73%)	0	0	1 (4%)	6 (23%)	0	26	

We do see proportionally more burnished and other decorated sherds in the Virginia samples (45% of 644 total sherds) than we see in the South Carolina samples (15% of 175 total sherds).

The amount of time invested in making Colonoware seems to be greater in Virginia. We infer this from the relatively higher amount of burnishing and the thinness of Virginia sherds compared to those from South Carolin

We have established that Virginia sherds are thinner and more of them are burnished than the South Carolina sherds. Based on the assumption that thinner sherds more efficiently conduct heat, was Virginia Colonoware used for cooking more often than South Carolina Colonoware? Vessels used for cooking, whether intentionally manufactured for cooking or not, are represented in our data as burned sherds.

Evidence of Burning by Region						
	Burned	Not Burned				
Virginia	150 (23%)	494 (77%)				
South Carolina	66 (37%)	109 (63%)				

Unburned sherds outnumber burned sherds in both regions; however, the South Carolina sample contains proportionately more burned sherds than the Virginia sample (p < .0001).

These data suggest Virginia Colonoware was NOT used more for cooking. Are the thinness differences related to maximizing thermal efficiency or are the differences related to enhancing visual appearance?

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#### Putting It All Together In Virginia, we found a Colonoware Thickness in Virginia, In Virginia, an By Decorative Technique and Burning Evidence

statistically

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