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# A Catalog of Selected Caddo Ceramic Vessels in the Buddy Jones Collection at the Gregg County Historical Museum

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**A Catalog of Selected Caddo Ceramic Vessels in the Buddy Jones Collection  
at the Gregg County Historical Museum**

*Timothy K. Perttula, Robert Z. Selden, Jr., and Bo Nelson*

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Engraved bottle, Figure 24d.

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Figures 1 and 52 were prepared by Lance Trask. Figure 1 is reproduced with the permission of the Texas Archeological Society.

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## **Introduction and Purpose of the Volume**

This publication presents information and images of 420 Caddo ceramic vessels from several different parts of East Texas. These vessels are in the Buddy Calvin Jones collection at the Gregg County Historical Museum (GCHM) in Longview, Texas. They represent unassociated funerary objects under the provisions of the Native American Graves Protection and Repatriation Act (NAGPRA). Our purpose in producing this publication is to make this information available to those in the professional and avocational archaeological community with a serious interest in the native history of the Caddo Indian peoples; as well as to the Caddo Nation of Oklahoma; and to the general public. The information presented here on Caddo ceramic vessel forms and decorative styles should be useful in current and future syntheses of East Texas Caddo ceramic traditions from ca. A.D. 1200 to the late 17<sup>th</sup> century, if not later.

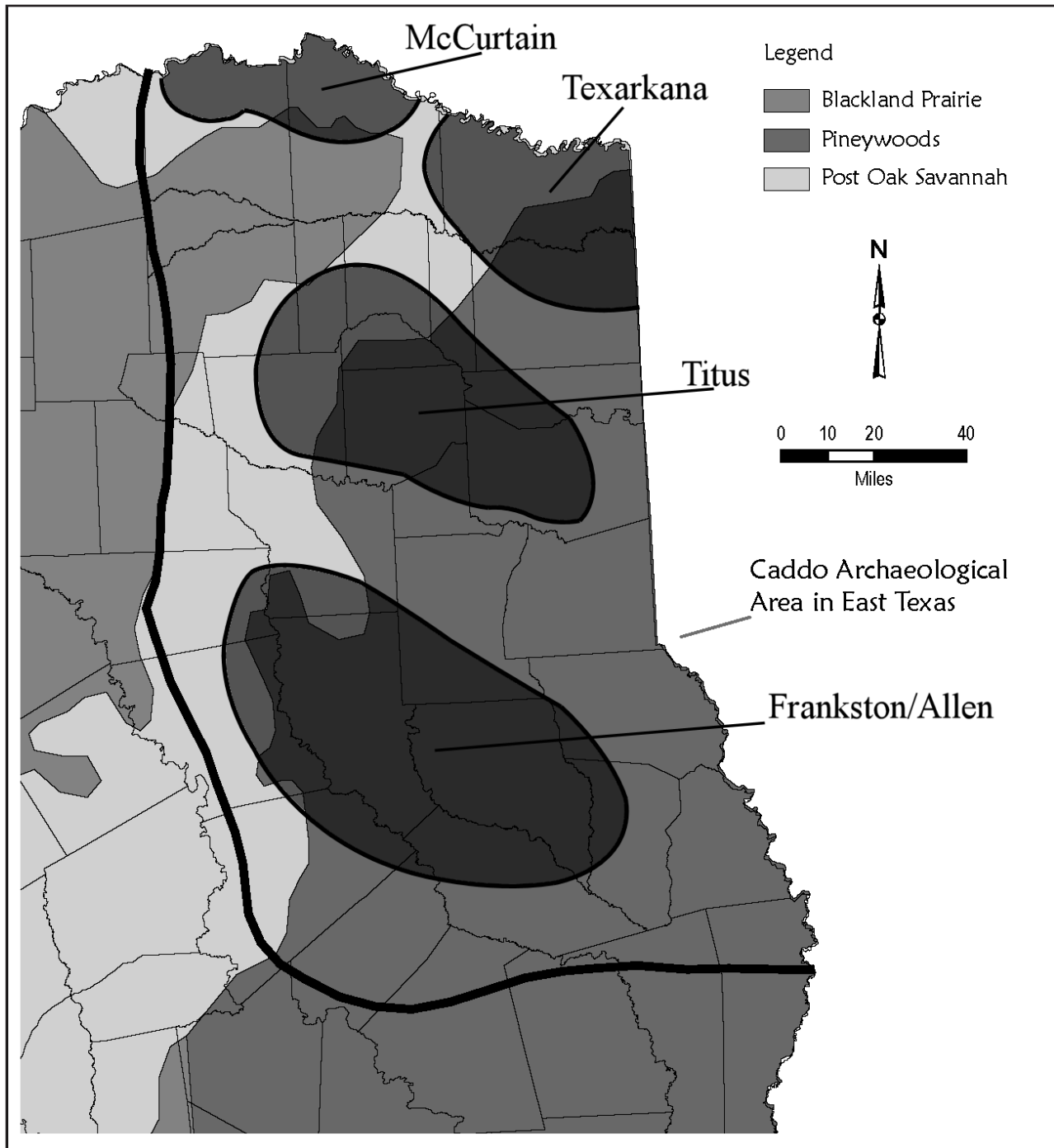
The provenience of these vessels by site and/or burial feature is not known, but because Caddo ceramic vessels from different parts of East Texas have distinctive decorations, vessel forms, and rim/lip treatment (see Perttula 2013; Suhm and Jelks 1962), we have been able to sort much of this vessel assemblage by age and/or region. This includes several vessels of Middle Caddo period (ca. A.D. 1200-1450) age that are likely from the mid-Sabine River basin, vessels from sites in the ca. A.D. 1450-1680 Titus phase area in the Big Cypress and mid-Sabine River basins (see Fields and Gadus 2012; Perttula 2012a), and vessels from sites in the upper Neches River basin from ca. A.D. 1400-1650 Frankston phase and post-A.D. 1650 Allen phase sites (Perttula 2011a). Unfortunately, there remain a number of vessels in this assemblage that are undecorated or have less distinctive stylistic characteristics, and at the present time they are considered to be from unknown ceramic assemblage contexts in East Texas Caddo sites. Hopefully further study of the entire Buddy Calvin Jones collections, along with the examination of all available records and notes (including records and notes not yet provided to the GCHM), will lead to the identification of more specific provenience assignments to the latter group of vessels.

## **Buddy Calvin Jones Collecting Areas in East Texas**

Buddy Calvin Jones conducted excavations of Caddo Indian sites in several areas in East Texas, focusing on sites with burials and cemeteries, from the mid-1950s to the late 1960s (see Perttula 2006:2-3). His notes, records, and publications (Jones 1968) indicate that he excavated burials from sites in four different areas: the middle Red River (Red River County), the Titus phase area in Gregg, Harrison, Rusk, and Upshur counties, the Kinsloe phase area in the mid-Sabine River basin (Gregg, Harrison, and Rusk counties), and the upper Neches River basin (Anderson, Cherokee, and Smith counties) (Figure 1). It is our opinion that the present assemblage of vessels whose site and/or burial provenience has not been determined are from unknown Caddo sites in the mid-Sabine River, Big Cypress, and upper Neches River basins.

In recent years, we have documented many ancestral Caddo burials and associated funerary objects—principally ceramic vessels—from a number of known East Texas sites in the Buddy Calvin Jones collection at the GCHM, so the vessel documentation studies reported on herein represents a continuation of that work. This extensive documentation of more than 700 Caddo vessels includes:

- burials and vessels from early 1960s excavations of Late Caddo McCurtain phase features at the Sam Kaufman site (41RR16) (Perttula et al. 2012a) on the Red River;
- Middle Caddo period habitation sites and small cemeteries at 41GG5 and Joe Smith (41GG50) sites in the mid-Sabine River basin (Perttula and Nelson 2013a);
- the Pipe site (41AN67) on the Neches River (Perttula 2011b); the Vanderpool site (41SM77) and other Late to Historic Caddo period sites in the upper Neches River basin (Perttula et al. 2013a);



**Figure 1. 1950s-1960s collecting and excavation areas of Buddy Jones in East Texas, including sites in the area of the McCurtain phase, Titus phase, and Frankston/Allen phases, as well as sites of the Kinsloe phase in Gregg, Harrison, and Rusk counties.**

Frankston phase vessels and cemeteries at the Mud Creek and H. C. Slider sites (Perttula and Nelson 2013c, 2013d); and distinctive square-shaped Frankston phase vessels from the Clay Ball site (Perttula and Nelson 2014e);

- Late Caddo Titus phase vessels from the Mrs. Martin Farm site in Harrison County (Perttula and Nelson 2014d) and the Sipes Hill site (41RK602) in Rusk County (Perttula et al. 2014a), as well as Kinsloe phase material remains from the Cherokee Lake site (41RK132) (Perttula 2012b), Henry Brown #2 site (41HS262) (Perttula and Nelson 2014a), Millsey Williamson (41RK3) (Perttula and Nelson 2014b), and the C. D. Marsh (41HS269) site (Perttula et al. 2014b), all in the mid-Sabine River basin;
- Middle Caddo period burials at the Younger site (41MR6) (Perttula et al. 2012b) in the Big Cypress Creek basin, and Titus phase cemeteries at the Henry Spencer site (41UR315) (Perttula et al. 2012c; Perttula and Nelson 2014c), and seven other Titus phase cemeteries in the Little Cypress Creek basin (Perttula et al. 2012d; Perttula and Nelson 2013b); and
- as part of a 2013 NAGPRA grant to the Caddo Nation of Oklahoma, Middle Caddo to Historic Caddo vessels were documented from burials at the Peanut Patch site (41HS825, n=50 vessels) in the Big Cypress Creek basin, the J. O. and Henry Brown site (41HS261, n=32 vessels), the C. D. Marsh site (41HS269, n=6 vessels), and the Susie Slade site (41HS13, n=13 vessels); these are Kinsloe phase Caddo sites. Five other archaeological sites have no trinomials but have Middle to Late Caddo period vessels that were documented for the project: the Darco Coal Mine site (n=4 vessels), the Eli Fields site (n=21 vessels) and the Marshall Red Gully site (n=3 vessels) in Harrison County; the HYTE site (n=27 vessels) in northern Gregg County, in the Little Cypress Creek basin; and the Beckville site (n=1 vessel) in northwestern Panola County (Perttula et al. 2013b).



**Middle Caddo Period Vessel Series**

Based on stylistic characteristics, there are a few Middle Caddo period vessels in this large assemblage of ancestral Caddo vessels from East Texas. The five identified vessels are small to medium-sized carinated bowls (Table 1 and Figures 2-3), four of which are decorated with incised or engraved horizontal interlocking scrolls and bands of punctates. The fifth vessel has engraved chevrons on the rim panel.

**Table 1. Catalog of Middle Caddo Period Vessels.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
<b>Carinated Bowl</b>					
2003.08.83	12.1	22.9	1.7	Washington Square Paneled	Incised panels with upper/ lower punctated bands, punctated brackets, and central ovals filled with punctates
2003.08.431	10.2	23.4	1.4	Washington Square Paneled	The rim has incised and engraved horizontal interlocking scrolls, and connecting brackets are filled with punctates
2003.08.519	4.6	13.5	0.37	Washington Square Paneled	Engraved interlocking horizontal scroll and connecting elements are hatched columns; hatched brackets and row of excised punctates
2003.08.658	5.1	12.1	0.36	Unidentified	The rim has a continuous series of engraved chevrons
2003.08.1162	12.1	23.0	1.7	Washington Square Paneled	The rim has incised horizontal interlocking scrolls, and the connecting and dividing brackets are filled with punctates

Ht.=height; OD=orifice diameter

Four of the vessels are classified as Washington Square Paneled, a fine ware type first defined on the basis of Middle Caddo period vessels at the Washington Square Mound site (41NA49) in the Angelina River basin (Hart 1982; Perttula et al. 2010a). Vessels of this type are now known to be distributed in Middle Caddo period Caddo sites in the Angelina River and mid-Sabine River basins. Two of these carinated bowls have distinctive rim and lip treatment: one Washington Square Paneled vessel (see Figure 2a) has a Redwine mode lip (see Walters 2010), while another has a sprocket rim (see Figure 2b; see also Walters 2010). Both are characteristic Middle Caddo period rim and lip treatments.



**Figure 2. Middle Caddo period carinated bowls: a, 2003.08.83; b, 2003.08.431; c, 2003.08.519.**



a



b

**Figure 3. Middle Caddo period carinated bowls: a, 2003.08.658; b, 2003.08.1162.**

### Upper Neches River Basin Vessel Series

The vessels (n=33) that can be attributed to upper Neches River basin Caddo sites include one bottle, six bowls, eight carinated bowls, one compound bowl, and 17 jars (Table 2); the latter comprise 52% of the vessel series. The identified types are consistent with the range of fine wares, utility wares, and plain wares from post-A.D. 1400 Frankston phase Caddo sites in the area.

**Table 2. Catalog of Upper Neches River Basin Vessels.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
<b>Bottle</b>					
2003.08.514	12.6	4.8	0.26	Fair Plain	Squat body and long neck
<b>Bowl</b>					
2003.08.105	9.0	10.0	0.36	Hood Engraved, <i>var. unspecified</i>	Effigy head with applied nodes for eyes and hatched triangles; rim has engraved ovals and hatched triangles and applied nodes; tab tail has engraved ovals and hatched triangle
2003.08.353	3.7	11.7	0.17	Hood Engraved, <i>var. Hood</i>	Turtle effigy head; two horizontal engraved lines on upper part of vessel
2003.08.783	7.6	18.4	0.56	Killough Pinched	Vertical pinched rows from rim to base
2003.08.1755	6.6	11.1	0.29	Killough Pinched	Horizontal pinched rows from rim to base
2003.08.1779	5.1	11.5	0.24	Hood Engraved, <i>var. Hood</i>	Effigy head and tab tail attachments; two horizontal engraved lines
2003.08.1783	4.3	8.9	0.15	Killough Pinched	Vertical pinched rows from rim to base

Table 2. Catalog of Upper Neches River Basin Vessels, cont.

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
<b>Carinated Bowl</b>					
2003.08.85	14.8	20.4	2.7	Poynor Engraved, <i>var.</i> <i>Hood</i>	Engraved panels defined by cross-hatched brackets
2003.08.394	9.5	15.8	0.9	Patton Engraved, <i>var.</i> <i>Allen</i>	Three horizontal engraved lines with excised pendant triangles
2003.08.417	12.1	14.9	1.1	Poynor Engraved, <i>var.</i> <i>Hood</i>	Engraved panels defined by hatched brackets
2003.08.464	13.0	18.6	1.5	Poynor Engraved, <i>var.</i> <i>unspecified</i>	Engraved panels filled with upper and lower hatched triangles
2003.08.484	11.4	10.8	0.74	Poynor Engraved, <i>var.</i> <i>Blackburn</i>	Engraved panels defined by vertical excised columns
2003.08.797	12.1	15.2	1.1	Poynor Engraved, <i>var.</i> <i>Cook</i>	Engraved oval panels defined by sets of near-vertical arcing lines; hatched triangles at top and bottom of ovals
2003.08.799	14.2	16.6	2.1	Poynor Engraved, <i>var. I</i>	Continuous scroll motif repeated four times; negative backward S element in scroll fill zones
2003.08.902	9.5	14.0	0.8	Poynor Engraved, <i>var.</i> <i>Lang</i>	Engraved semi-circles and small central circle
<b>Compound Bowl</b>					
2003.08.359	9.0	15.8	1.1	Poynor Engraved, <i>var. A</i>	Engraved nested triangles and ovals, repeated 5-6 times

**Table 2. Catalog of Upper Neches River Basin Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
<b>Jar</b>					
2003.08.45	6.4	6.5	0.25	Killough Pinched	Vertical incised rim; series of vertical pinched rows on body
2003.08.236	19.1	15.4	2.6	Bullard Brushed	Rim: horizontal brushed; body: vertical brushed
2003.08.286	12.7	13.3	1.0	UID UW	Rim: horizontal brushed and linear punctated rows; body: vertical pinched rows
2003.08.352	5.7	11.9	0.38	Killough Pinched	Vertical pinched rows on rim and body
2003.08.378	16.5	14.8	2.2	Maydelle Incised	Rim: incised triangles filled with tool punctates; upper and lower triangles each repeated four times
2003.08.467	27.7	25.6	9.2	Bullard Brushed	Rim: horizontally brushed; Body: vertical brushed
2003.08.664	11.3	11.2	0.76	Bullard Brushed	Rim: horizontal brushed; body: vertical brushed
2003.08.667	31.3	26.2	10.7	Maydelle Incised	Rim: incised chevrons
2003.08.747	17.6	16.6	2.6	Maydelle Incised	Rim: diagonal incised lines; body: diagonal and overlapping brushed
2003.08.807	17.1	14.6	2.2	Bullard Brushed	Rim: horizontal brushed and tool punctated row; body: vertical brushed
2003.08.821	N/A	N/A	N/A	Bullard Brushed	Rim: horizontal brushed and horizontal incised line; body: vertical brushed
2003.08.931	N/A	27.0	N/A	Bullard Brushed	Rim: diagonal brushed and two tool punctated rows; body: diagonal brushed

**Table 2. Catalog of Upper Neches River Basin Vessels, cont.**


Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.992	14.0	15.2	1.3	Killough Pinched	Rim: tool punctated row; Body: vertical pinched rows
2003.08.1001	17.8	13.0	2.1	Bullard Brushed	Rim: horizontal brushed; body: vertical brushed
2003.08.1026	16.2	15.3	2.2	Maydelle Incised	Rim: incised triangles with diagonal incised lines; body: vertical appliqued ridges
2003.08.1072	14.1	12.6	1.1	Maydelle Incised	Rim: incised chevrons; body: vertical brushed
2003.08.1244	22.8	17.5	3.6	Bullard Brushed	Rim: diagonal brushed; body: vertical brushed

Ht.=height; OD=orifice diameter; UID UW=unidentified utility ware

The one upper Neches River basin plain ware is a distinctive squat bottle form with a globular body and an elongated neck, Fair Plain (Figure 4). This bottle form was first recognized at the R. J. Fair site (41CE25), where it occurred in association with post-A.D. 1480 Hume Engraved bottles and Poynor Engraved, *var. Cook* carinated bowls (Perttula 2011a:263 and Figure 6-62a).



**Figure 4. Upper Neches River basin bottle, 2003.08.514.**

Bowls in the Upper River basin vessel series include three small Hood F aved bird effigy vessels (Figures 5a-b and 6b) and three Killough Pinched bowls (Figures 5c-d and 6a). Both are common Late Caddo Frankston phase vessel forms and decorative styles.

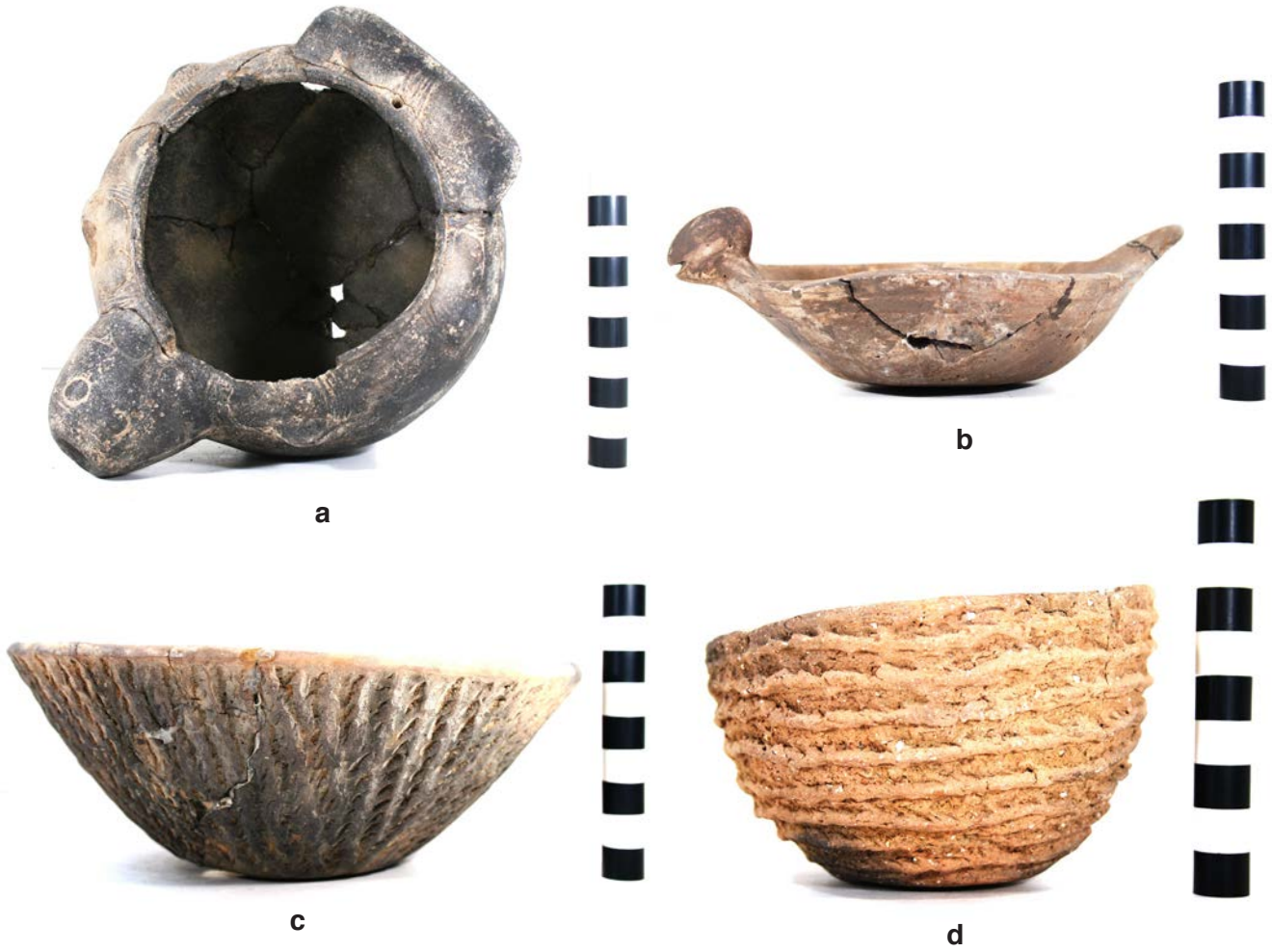


Figure 5. Upper Neches River basin bowls: a, 2003.08.105; b, 2003.08.353; c, 2003.08.783; d, 2003.08.1755.



Figure 6. Upper Neches River basin bowls: a, 2003.08.1783; b, 2003.08.1779.



The carinated bowls include seven small to medium-sized Frankston phase Poynor Engraved vessels (Figures 7a, c-d and 8a-d) of several different upper Neches River basin varieties and one post-A.D. 1650 Allen phase Patton Engraved, *var. Allen* vessel (Figure 7b). None of the vessels have pigments rubbed in the engraved lines.



Figure 7. Upper Neches River basin carinated bowls: a, 2003.08.85; b, 2003.08.394; c, 2003.08.417; d, 2003.08.464.



**Figure 8. Other Upper Neches River basin carinated bowls: a, 2003.08.484; b, 2003.08.797; c, 2003.08.799; d, 2003.08.902.**

The one compound bowl is a medium-sized Poynor Engraved vessel (Figure 9) with a nested triangle motif. This motif has been recognized as a regional variety, *var. A*, of Poynor Engraved in the upper Neches River basin (Perttula 2011a:Figure 6-65; see also Kleinschmidt 1982:Figure 19).



**Figure 9. Upper Neches River basin compound bowl, 2003.08.359.**



**Figure 10. Upper Neches River basin jars and bowls: a, 2003.08.45; b, 2003.08.236; c, 2003.08.286; d, 2003.08.352.**

This series of upper Neches River basin vessels has small to very large (as large as 10.7 liters in volume) jars of the types Bullard Brushed (n=8), Maydelle Incised (n=5), and Killough Pinched (n=3) (Figures 10-13), as well as one brushed-punctated-pinched vessel of unidentified type (Figure 10c). These utility ware jars are the principal utility wares in the Frankston phase (see Suhm and Jelks 1962:21, 91, 103).<sup>1</sup>



Figure 11. Upper Neches River basin jars: a, 2003.08.378; b, 2003.08.992; c, 2003.08.664.



**Figure 12. Upper Neches River basin jars: a, 2003.08.667; b, 2003.08.747; c, 2003.08.807; d, 2003.08.931.**

**a****b****c****d**

**Figure 13. Upper Neches River jars: a, 2003.08.1001; b, 2003.08.1026; c, 2003.08.1072; d, 2003.08.1244.**

### Titus Phase Vessel Series

The ceramic vessels in the Buddy Jones collection at the GCHM that can be attributed to Late Caddo Titus phase sites in the Big Cypress Creek and mid-Sabine River basins include both fine wares (decorated with post-firing engraved lines) and utility wares (decorated with wet paste elements). These fine wares (Table 3) occur in a variety of shapes: beaker (n=2), bottle (n=46), bowl (n=4), deep bowl (n=1), carinated bowl (n=92), compound bowl (n=17), and jar (n=7). Approximately 54% of the 169 Titus phase fine ware vessels in this collection are carinated bowls; another 27% are bottles, and 10% are compound bowls.

**Table 3. Catalog of Titus Phase Fine Ware Vessels.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
<b>Beaker</b>					
2003.08.78	12.7	6.4	0.33	UID, probably Ripley Engraved	Vertical engraved scrolls with embedded S-shaped and negative S-shaped elements
2003.08.1788	20.3	4.5	0.64	Ripley Engraved	Vertical engraved scrolls with embedded concentric circle with inner cross-hatched circle; vertical scroll dividers have excised zones, ovals, and SZ elements outlined by hatched lines
<b>Bottle</b>					
2003.08.23*	10.8	3.8	0.22	Ripley Engraved	Body: horizontal engraved lines and excised pendant triangles
2003.08.28	26.8	5.1	0.83	Wilder Engraved, <i>var.</i> <i>Wilder</i>	Encircled vertical scrolls, central hatched circles, and hatched/excised triangle elements
2003.08.38**	7.3	2.3	0.1	Hodges Engraved	Hatched and cross-hatched meandering scroll and hooked arm elements; red pigment
2003.08.41	7.6	3.3	0.1	Wilder Engraved, <i>var.</i> <i>Wilder</i>	Encircled vertical scrolls, one open central circle, and open triangles; red pigment



**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.53***	26.4	5.9	0.98	Ripley Engraved	Panels filed with negative ovals, rectangles, and sideways negative S-shaped elements
2003.08.56***	24.7	4.7	1.0	Ripley Engraved	Circles with negative S-shaped elements and bracket dividers with excised triangle elements
2003.08.81	11.6	4.9	0.32	Taylor Engraved	Body: hooked arm motif; red pigment
2003.08.87*	21.8	5.3	0.73	Taylor Engraved	Stacked horizontal scrolls with hooked arm elements; triangle elements in scroll fill zones; red pigment
2003.08.95*	13.3	4.5	0.29	Wilder Engraved, <i>var. Wilder</i>	Encircled vertical scrolls, open central circles, and open triangles with dashed line; red pigment
2003.08.191*	16.4	4.3	0.42	Ripley Engraved	Circles with central circle and swastika; open triangular bracket dividers; red pigment
2003.08.195	N/A	N/A	N/A	Ripley Engraved	Scrolls and circles; small central cross-hatched circles, negative S-shaped elements in scroll fill zones; red pigment
2003.08.197	12.3	2.4	0.24	Bailey Engraved	Concentric engraved arcs and upper zone of tool punctations; red pigment
2003.08.229	12.8	4.3	0.31	Ripley Engraved	Central S-shaped elements in panels, with negative ovals, S-shaped elements, negative triangles, and sets of hatched lines

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.288***  excised	20.3	5.1	0.65	UID, likely Ripley Engraved	Scroll and central circle with excised triangular borders and inner cross-hatched hatched circle; semi-circles and triangles in scroll fill zones
2003.08.313	15.4	4.0	0.35	Bailey Engraved	Concentric engraved arcs and upper zone of small circular tool punctates; white pigment
2003.08.390	19.7	6.0	0.58	Ripley Engraved	Concentric semi-circles, central circles with rays, negative ovals and hooked arm elements in dividers
2003.08.406	12.2	4.4	0.25	Wilder Engraved, <i>var. Wilder</i>	Encircled vertical scrolls, with central circle; scrolls originate at open triangles, and there are upper hatched and excised rectangles
2003.08.458*/***	23.4	5.3	0.89	Wilder Engraved, <i>var. Wilder</i>	Encircled vertical scrolls, with central cross-hatched circles; scrolls originate at triangles with hatched or cross-hatched corners; red pigment
2003.08.513***	14.3	4.6	0.34	UID	Hatched triangles above cross-hatched semi-circles with hooked arms, and dividers with hatched triangles, negative circles, and cross-hatched or hatched extended triangle apexes
2003.08.515*	16.2	4.6	0.33	Ripley Engraved	Scroll and circle motif with scroll fill zones with concentric circles, negative ovals, and hatched triangular elements; white pigment

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.572	9.2	2.8	0.15	Wilder Engraved	Encircled vertical scrolls with hooked arms; scrolls originate at upper and lower excised triangles with negative ovals; white pigment
2003.08.579	10.7	3.9	0.17	Bailey Engraved	Panels of engraved concentric arcs; red pigment
2003.08.618***	N/A	N/A	N/A	UID	Vertical encircled scrolls filled with circular tool punctates; lower open triangle dividers; red pigment and red-slipped
2003.08.676	14.5	4.0	0.25	Wilder Engraved	Vertical encircled scrolls that end in hooked arms; scrolls begin in upper and lower triangles
2003.08.697*	11.9	3.7	0.25	Ripley Engraved	Diagonal engraved lines on collar; body: concentric circles with inner circles with excised rays; fill zones have circles, ovals, and sets of hatched lines; red pigment
2003.08.714	16.1	4.5	0.42	Bailey Engraved	Panels of concentric engraved arcs; upper triangular zone of tool punctates; red pigment
2003.08.777	25.6	4.3	0.77	Ripley Engraved	Panels with hatched scrolls and circles, and sets of negative ovals and small hatched hooked arm elements; vertical line dividers; red pigment
2003.08.825	N/A	N/A	N/A	Bailey Engraved	Panels of concentric engraved arcs; upper zone filled with small tool punctates

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.832	21.5	3.7	0.52	Ripley Engraved	Panels of concentric circles; inner circle and swastika; upper and lower triangle bracket dividers; red pigment
2003.08.848	5.4	3.1	0.09	Wilder Engraved	Vertical encircled scrolls that end in hooked arm elements; scrolls begin at upper triangles; open triangular dividers; red pigment
2003.08.860	21.5	5.1	0.65	Ripley Engraved, <i>var. Ripley</i>	Alternating concentric diamonds and circles, with inner circles and diamonds with excised pendant triangles; upper and lower rectangular-curved zones with excised pendant triangles on outer lines
2003.08.861	20.5	5.7	0.61	Ripley Engraved	Slanted hatched scrolls with tick marks and negative SZ elements (see Fields and Gadus 2012), the larger ones with a hooked arm element
2003.08.862**/**	14.6	4.3	0.37	Keno Trailed	Lip notched. Body: sets of hooked arm trailed lines and sets of scrolls that end in hooked arms
2003.08.975	10.2	3.8	0.15	Wilder Engraved	Vertical encircled scrolls that end in hooked arm elements; scrolls begin at upper and lower triangles with excised and cross-hatched corners
2003.08.994	13.8	3.5	0.33	Bailey Engraved	Panels with engraved concentric arcs; upper zone filled with small circular tool punctates

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.1023	19.5	3.8	0.80	Wilder Engraved, <i>var. Wilder</i>	Vertical encircled scrolls that meet at a central open circle; scrolls originate in upper and lower triangles with excised corners
2003.08.1127**	N/A	3.0	N/A	Bailey Engraved	Panels with concentric engraved arcs; red pigment
2003.08.1165	N/A	5.0	N/A	Ripley Engraved	Continuous engraved scroll with excised pendant triangles on scroll line; scroll fill zones have negative ovals and SZ elements; red and white pigments
2003.08.1241	22.0	3.8	0.45	Bailey Engraved	Panels of concentric circles and upper zone filled with tool punctates; red pigment
2003.08.1352	N/A	N/A	N/A	Bailey Engraved	Panels of concentric engraved arcs; upper zone filled with small circular punctates; red pigment
2003.08.1744	15.8	3.7	0.33	Wilder Engraved	Vertical encircled scrolls that end in hooked arm elements; scrolls begin at upper and lower triangles
2003.08.1768	22.8	4.6	0.64	Ripley Engraved	Scrolls with circles with hatched rays; upper and lower scroll fill zones have negative ovals, as well as circles with hatched pendant triangles; red pigment
2003.08.1796***	23.0	4.7	0.68	Ripley Engraved	Panels with cross-hatched circle elements embedded in an excised zone of negative ovals, circles, and SZ elements; red pigment

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.1812***	5.9	3.5	0.07	Taylor Engraved	Scrolls with hooked arm elements; scroll fill zones have open triangles and hatched curvilinear lines
2003.08.1815***	9.1	3.4	0.13	Hodges Engraved	Meandering negative scrolls with hatched upper and lower scroll fill zones
2003.08.1829	12.4	7.5	0.41	cf. Taylor Engraved	Engraved concentric spirals with tick marks and hatched concentric semi-circles
<b>Bowl</b>					
2003.08.469	8.9	14.4	0.51	UID	Engraved panels filled with central hooked arm elements, surrounded by zones of small excised punctates
2003.08.528	4.3	16.1	0.28	Ripley Engraved, <i>var. Gandy</i>	Engraved scrolls, SZ elements in excised column dividers; negative ovals in scroll fill zones
2003.08.989	6.7	16.0	0.41	UID, probably Ripley Engraved	Boat-shaped Effigy bowl; continuous engraved scrolls and circles and vertical hatched triangular scroll fill zones
2003.08.1942	5.2	16.0	0.33	Ripley Engraved	Panels with engraved semi-circles with hatched inner circle; curvilinear dividers with hatched lines, negative ovals, and SZ elements
<b>Deep Bowl</b>					
2003.08.1060#	N/A	17.0	N/A	Taylor Engraved	Engraved continuous scrolls with upper and lower hatched scroll fill zones and central hooked arm elements; red-slipped; shell-tempered

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
<b>Carinated Bowl</b>					
2003.08.33	10.8	22.8	1.5	Ripley Engraved, cf. <i>var. Gandy</i>	Scrolls, excised bracket dividers, and upper and lower rows of excised pendant triangles; white pigment
2003.08.80	7.0	17.1	0.72	Ripley Engraved, <i>var. Pilgrims</i>	Interlocking horizontal scrolls with hatched bracket dividers; scroll fill zones are horizontal lines that end in small excised triangles; white pigment
2003.08.82****	9.5	12.7	0.72	Taylor Engraved	Scrolls with hooked arm elements; upper and lower scroll fill zones have hatched triangles and circles with rays
2003.08.194	7.0	14.1	0.60	Taylor Engraved	Scrolls with interlocking ends; hatched upper and lower scroll fill zones; red and white pigments
2003.08.210	6.4	12.5	0.48	Ripley Engraved, <i>var. Gandy</i>	Engraved scrolls with cross-hatched bracket dividers; excised triangles, columns, and brackets in scroll fill zones
2003.08.211	6.4	16.5	0.63	Ripley Engraved, <i>var. Galt</i>	Scrolls and circles, with interior central open circle; excised triangle elements in scroll fill zones
2003.08.276	15.7	31.9	4.6	Ripley Engraved, <i>var. McKinney</i>	Horizontal scrolls with central diamond elements; upper and lower rims of excised pendant triangles
2003.08.329	6.4	14.6	0.56	Ripley Engraved, <i>var. Williams</i>	Alternate nested triangles, with hatched negative ovals; white pigment

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.386	8.2	15.2	0.75	Taylor Engraved	Scrolls with hooked arm elements; curvilinear sets of engraved lines in scroll fill zones
2003.08.398	7.0	15.0	0.63	Ripley Engraved, <i>var. Caldwell</i>	Scrolls and semi-circles; diamond elements within semi-circles; negative ovals and cross-hatched triangular elements in scroll fill zones
2003.08.405	7.6	17.1	0.78	Ripley Engraved, <i>var. McKinney</i>	Horizontal scroll with alternating diamond and circle central elements; excised brackets at end of scroll; upper and lower rows of excised pendant triangles and dashes
2003.08.415	5.7	14.8	0.50	Ripley Engraved, cf. <i>var. Gandy</i>	Scrolls divided by excised brackets; scroll fill zones with negative ovals, vertical lines, and excised triangles; upper and lower rows of small excised pendant triangles; red pigment
2003.08.423	12.7	30.7	2.3	Ripley Engraved	engraved ovals with excised eye elements; excised triangles with negative circles
2003.08.447	13.3	24.3	2.9	Taylor Engraved	Scrolls with interlocking ends; curvilinear hatched scroll fill zones; and small excised pendant triangles on scroll line
2003.08.449	15.7	33.2	4.7	Ripley Engraved, <i>var. Cash</i>	Engraved circles and nested triangles; circles have inner circles with rays; nested triangles have inner circles with rays and excised hooked arms



**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.456	4.3	6.4	0.17	Ripley Engraved	Negative scrolls, open brackets, and vertical hatched scroll fill zones
2003.08.457	7.6	14.0	0.64	Ripley Engraved	Negative scrolls and hatched or cross-hatched scroll fill zones; red pigment
2003.08.488	5.8	12.9	0.45	Ripley Engraved	Horizontal scrolls divided by excised columns and brackets; upper scroll fill lines end in excised triangle elements
2003.08.511	11.5	27.5	1.9	Ripley Engraved	Continuous scrolls and nested triangle motifs with negative SZ elements in upper and lower scroll fill zones and nested triangle
2003.08.512	6.2	18.1	0.68	Ripley Engraved	Excised circles, small central open circles, and open bracket dividers; white pigment
2003.08.521	13.1	26.3	3.1	Ripley Engraved, <i>var. McKinney</i>	Horizontal scrolls with diamond central elements; scrolls end in excised columns; upper and lower rows of excised pendant triangles or horizontal excised columns that end with triangle element; white pigment
2003.08.523	7.0	15.2	0.64	Ripley Engraved, <i>var. Gandy</i>	Engraved scrolls with excised bracket dividers; scroll fill zones have negative ovals; white pigment
2003.08.526	12.7	27.8	2.1	Ripley Engraved, <i>var. Gandy</i>	Engraved scrolls with open and excised brackets; excised brackets, vertical lines, and excised triangles in scroll fill zones

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.527	12.1	29.6	2.2	Ripley Engraved, <i>var. Galt</i>	Scrolls and circles; central circles have smaller circles with excised rays; scroll fill zones have negative ovals and ovals with a dashed line
2003.08.529	5.3	15.4	0.49	Ripley Engraved, <i>var. Gandy</i>	Engraved scrolls with open bracket dividers; scroll fill zones have excised ovals and triangular elements; vessel body has vertical incised lines
2003.08.544	N/A	21.0	N/A	Ripley Engraved, <i>var. McKinney</i>	Horizontal scrolls with alternating diamond and circle central elements; upper and lower rows of excised pendant triangles; white pigment
2003.08.545	6.4	14.6	0.56	Ripley Engraved, <i>var. Gandy</i>	Engraved scrolls with cross-hatched bracket dividers; cross-hatched scroll fill zones
2003.08.547	N/A	26.0	N/A	Ripley Engraved, <i>var. Carpenter</i>	Engraved continuous scrolls; negative ovals and excised brackets in scroll fill zones
2003.08.559	7.6	18.5	0.85	Ripley Engraved, <i>var. Pilgrims</i>	Horizontal interlocking scrolls with cross-hatched interlocking brackets
2003.08.564	7.6	16.7	0.78	Ripley Engraved, <i>var. McKinney</i>	Horizontal scrolls with alternating diamond and circle central elements; upper and lower rows of small excised triangles, dashes, and tick marks; white pigment

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.584	6.4	14.0	0.52	Ripley Engraved, <i>var. Gandy</i>	Engraved scrolls with cross-hatched bracket dividers; negative ovals, excised brackets, and cross-hatched triangular elements in scroll fill zones
2003.08.585	8.9	19.1	1.0	Ripley Engraved, <i>var. Galt</i>	Engraved scrolls and central circles; negative ovals with hooked arm elements and excised brackets in scroll fill zones; red-slipped
2003.08.587	7.6	14.0	0.64	Ripley Engraved, cf. <i>var. Gandy</i>	Engraved scrolls, with hatched bracket dividers; upper and lower rows of excised pendant triangles
2003.08.589	12.7	27.8	2.1	Ripley Engraved, <i>var. Galt</i>	Scrolls and central circle elements with inner diamonds; triangular scroll fill zones with excised corners and small excised pendant triangles
2003.08.620	7.0	16.5	0.70	Ripley Engraved, cf. <i>var. Gandy</i>	Engraved scrolls with diagonal engraved bracket dividers; upper and lower rows of small excised pendant triangles; white pigment
2003.08.621	9.5	20.2	1.3	Ripley Engraved, <i>var. McKinney</i>	Horizontal scrolls with alternating diamond and circle central elements; scrolls end in excised brackets; upper and lower rows of excised pendant triangles; white pigment
2003.08.623	3.2	10.0	0.19	Ripley Engraved, <i>var. Gandy</i>	Engraved scrolls, excised bracket dividers and excised brackets, negative ovals, and open triangles in scroll fill zones; red pigment

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.626	14.0	30.3	3.8	Ripley Engraved, cf. <i>var. Williams</i>	Alternating nested triangles with vertical line dividers. Lines have tick marks; excised triangles and negative ovals in nested triangles and zones opposite nested triangles
2003.08.648#	6.4	18.0	0.69	UID	Single horizontal engraved line at carination; shell-tempered
2003.08.656	11.6	22.8	1.6	Ripley Engraved, cf. <i>var. Carpenter</i>	Engraved continuous scroll with vertical hatched scroll fill zones; white pigment
2003.08.671	5.8	15.4	0.53	Taylor Engraved	Scrolls that end in hooked arm element; vertical column excised dividers; scroll fill zones are negative ovals and excised triangles
2003.08.675	7.1	17.1	0.73	Ripley Engraved, cf. <i>var. Gandy</i>	Engraved scrolls and open bracket dividers with single diagonal line; upper and lower rows of small excised pendant triangles
2003.08.687	8.3	20.6	1.0	Ripley Engraved, <i>var. Galt</i>	Engraved scrolls and circles, with inner circles with rays; scroll fill zones excised brackets, triangles, and vertical lines; white pigment
2003.08.722	14.6	27.7	3.6	Ripley Engraved, <i>var. McKinney</i>	Horizontal scrolls with alternating central diamonds and circles; they have inner circles and excised rays; scrolls end in excised brackets; upper and lower rows of excised pendant triangles

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.745*	7.2	15.1	0.65	Turner Engraved	Horizontal engraved lines and two rows of small excised pendant triangles; excised ovals under rim peaks; white pigment
2003.08.746	12.8	29.1	2.3	Ripley Engraved, <i>var. Cash</i>	Engraved circles (with inner central diamonds) and nested triangles with negative excised ovals and hooked arm elements; upper and lower excised triangles with negative ovals and hooked arm elements; white pigment
2003.08.753	9.4	19.3	1.1	Ripley Engraved, <i>var. McKinney</i>	Horizontal engraved scrolls with alternating central diamonds and circles; upper and lower rows of small excised pendant triangles
2003.08.776	10.0	23.5	1.4	Ripley Engraved, cf. <i>var. Carpenter</i>	Engraved continuous scrolls, with ticked vertical dividers; negative ovals and excised brackets in scroll fill zones
2003.08.781	15.7	29.1	4.1	Ripley Engraved, <i>var. Carpenter</i>	Engraved continuous scrolls, with vertical dividers; negative ovals, excised brackets, and hatched triangles in scroll fill zones
2003.08.826	8.9	16.0	0.85	Ripley Engraved, cf. <i>var. Gandy</i>	Engraved scrolls with upper and lower triangular brackets; upper and lower small excised pendant triangles; white pigment

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.863	13.3	27.7	3.3	Ripley Engraved, <i>var. McKinney</i>	Horizontal scrolls with alternating diamond and circle central elements; inner circles with excised rays; excised brackets at end of scrolls with negative ovals; upper and lower rows of excised pendant triangles
2003.08.879	8.9	18.5	1.0	Ripley Engraved	Negative continuous scrolls with vertical lines in scroll fill zones and negative ovals; white pigment
2003.08.921	N/A	27.0	N/A	Ripley Engraved, cf. <i>var. Gandy</i>	Scrolls with excised bracket dividers; upper and lower rows of excised pendant triangles
2003.08.945	9.4	20.7	1.2	Ripley Engraved, <i>var. Cash</i>	Engraved circles and nested triangles; circles have either inner circles with rays or excised diamonds; nested triangles have oval with central excised dot, as do opposed triangular elements; red pigment
2003.08.949	9.5	20.0	1.1	Ripley Engraved, cf. <i>var. Gandy</i>	Scrolls with vertical line dividers; excised brackets; upper and lower rows of excised pendant triangles
2003.08.984	8.7	18.3	1.0	Ripley Engraved, <i>var. McKinney</i>	Horizontal scrolls with diamond or circle central elements; both have inner excised diamonds. Scrolls end with vertical excised columns; upper and lower rows of excised pendant triangles; white pigment

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.996	7.6	17.6	0.80	cf. Taylor Engraved	Engraved scrolls that end in hooked arm elements; excised bracket dividers and scroll fill lines that end in excised triangles; white pigment
2003.08.1013	5.8	11.0	0.38	Ripley Engraved, <i>var. Gandy</i>	Engraved scrolls with negative SZ elements in excised brackets; negative ovals and excised columns and triangles in scroll fill zones
2003.08.1015	11.5	22.0	1.5	Ripley Engraved, <i>var. Galt</i>	Scrolls with central circles; circles have inner diamonds; scroll fill zones are hatched triangles
2003.08.1029	2.8	8.4	0.14	Ripley Engraved, cf. <i>var. Gandy</i>	Scrolls with hatched or excised bracket dividers; upper and lower rows of small excised pendant triangles
2003.08.1051	7.3	14.7	0.45	Ripley Engraved, <i>var. McKinney</i>	Horizontal scrolls with alternating diamond or circle central elements; circles have inner excised diamonds and diamonds have inner circle and cross; upper and lower rows of excised pendant triangles
2003.08.1059	15.6	26.0	3.6	Ripley Engraved, <i>var. Pilgrims</i>	Horizontal interlocking scrolls; excised interlocking brackets; excised bracket dividers
2003.08.1062	15.3	28.0	3.8	Taylor Engraved	Engraved scrolls that end in hooked arm elements; negative ovals and excised brackets in scroll fill zones; white pigment

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.1063	N/A	27.0	N/A	Ripley Engraved, <i>var. Cash</i>	Engraved circles and nested triangles; the circles have an inner negative circle, and nested triangles have inner ovals with central dots; white pigment
2003.08.1064	N/A	27.0	N/A	Ripley Engraved, cf. <i>var. Gandy</i>	Engraved scrolls with open bracket dividers; upper and lower rows of small excised pendant triangles; white pigment
2003.08.1066	N/A	19.0	N/A	Ripley Engraved, <i>var. McKinney</i>	Horizontal scrolls with circle central elements; circle has inner circle with excised rays; scrolls end in excised brackets; upper and lower rows of excised pendant triangles; white pigment
2003.08.1066a	13.1	20.0	1.4	Ripley Engraved	Panels defined by excised brackets and upper and lower rows of small excised pendant triangles; white pigment
2003.08.1075	16.9	27.2	4.1	Ripley Engraved, <i>var. Galt</i>	engraved scrolls and central circles; these have inner circles with tick marks; negative ovals, excised brackets, and excised triangles in scroll fill zones; white pigment
2003.08.1082	N/A	17.0	N/A	Ripley Engraved, <i>var. McKinney</i>	Horizontal scrolls with alternating diamond and central circles; diamonds have inner diamonds and circles have swastikas in circles; scrolls end in excised brackets; upper and lower rows of excised pendant triangles



**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.1084	N/A	21.0	N/A	Ripley Engraved, <i>var. McKinney</i>	Horizontal scrolls with diamond central elements; inside diamonds are excised circles with rays; upper and lower excised pendant triangles; white pigment
2003.08.1085	N/A	24.0	N/A	Ripley Engraved, <i>var. McKinney</i>	Horizontal engraved scrolls with alternating diamond and circle central elements; circle has inner central dot, diamonds have negative circle in central diamond; scrolls end in excised brackets; upper and lower rows of excised pendant triangles and dashes; red-slipped
2003.08.1087	N/A	20.0	N/A	Ripley Engraved, <i>var. Carpenter</i>	Continuous scrolls with vertical hatched scroll fill zones and excised linear ovals; white pigment
2003.08.1088	N/A	27.0	N/A	Ripley Engraved, <i>var. McKinney</i>	Horizontal scrolls with alternating circle and diamond central elements; circles have inner circles with tick marks, and diamonds have inner diamonds; scrolls end in vertical lines; upper and lower rows of excised pendant triangles
2003.08.1089++	7.0	17.3	0.73	Ripley Engraved, cf. <i>var. Reed</i>	Panels with excised triangles and curvilinear excised zones; vertical line dividers
2003.08.1090	10.8	22.2	1.4	Ripley Engraved, <i>var. Carpenter</i>	Continuous scrolls with excised brackets in scroll fill zones; white pigment

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.1134	5.6	11.0	0.37	Ripley Engraved, cf. <i>var. Gandy</i>	Engraved scrolls with upper and lower rows of tick marks
2003.08.1255	15.4	22.9	3.2	Ripley Engraved, <i>var. McKinney</i>	Horizontal scrolls with circle central elements; circles have inner central diamonds; scrolls end in open brackets; upper and lower rows of excised pendant triangles
2003.08.1261	N/A	17.0	N/A	Ripley Engraved, <i>var. Galt</i>	Scrolls and central circle elements; circles have inner excised diamonds; negative ovals with central dots and excised brackets in scroll fill zones; red pigment
2003.08.1354	3.8	9.3	0.21	Ripley Engraved, <i>var. Carpenter</i>	Engraved continuous scrolls with vertical lines in scroll fill zones
2003.08.1355	3.7	7.6	0.17	Ripley Engraved	Engraved scrolls with open bracket dividers; one divider with pendant oval; scroll fill zones have triangles or horizontal lines that end in open triangles
2003.08.1419	N/A	29.0	N/A	Ripley Engraved, <i>var. McKinney</i>	Horizontal scrolls with alternating central circle and diamond elements; both have negative circles in inner diamond; scrolls end in hatched brackets; upper and lower small excised pendant triangles
2003.08.1420	14.6	27.0	3.5	Ripley Engraved, cf. <i>var. Gandy</i>	Engraved scrolls with excised bracket dividers; upper and lower rows of excised pendant triangles

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.1429	N/A	15.0	N/A	Taylor Engraved	Continuous scrolls with with hooked arm elements; scroll fill zones have vertical engraved lines
2003.08.1439 <sup>^</sup>	13.3	28.0	3.3	Ripley Engraved, <i>var.</i> <i>Galt</i>	Engraved scrolls and circles, with inner circle element; scroll fill zones have negative ovals and excised brackets
2003.08.1525 <sup>^</sup>	14.9	26.0	3.5	Ripley Engraved, cf. <i>var. Gandy</i>	Engraved scrolls with excised bracket dividers; small excised pendant triangles above and below scroll lines
2003.08.1526 <sup>^</sup>	N/A	21.0	N/A	Ripley Engraved, <i>var.</i> <i>Carpenter</i>	Continuous scroll, excised hooked arms, and small excised pendant triangles
2003.08.1617	15.6	25.9	3.6	Ripley Engraved, <i>var. Galt</i>	Engraved scrolls and central circles; circles have smaller central circles with excised rays; scroll fill zones have vertical engraved lines and sideways SZ elements
2003.08.1773	6.4	14.8	0.57	Ripley Engraved, cf. <i>var. Carpenter</i>	Continuous engraved scrolls with vertical line dividers with tick marks; scroll fill zones are triangular with vertical lines and small excised pendant triangles
2003.08.1784	7.6	18.4	0.84	Ripley Engraved, <i>var. Reed</i>	Bisected engraved triangles with inner cross-hatched triangle elements; vertical line dividers; white pigment

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.1807	13.3	23.0	2.7	Ripley Engraved, cf. <i>var. Gandy</i>	Engraved scrolls with hatched brackets and open brackets with nested triangles; negative ovals or excised pendant triangles in scroll fill zones; upper and lower rows of excised pendant triangles
2003.08.1947	N/A	19.0	N/A	Ripley Engraved, <i>var. Williams</i>	Alternate nested triangles, hatched negative ovals, and tick marks
2003.08.3156	N/A	23.0	N/A	Ripley Engraved, cf. <i>var. Gandy</i>	Engraved scrolls that end in hooked arm elements; hatched bracket dividers; scroll fill zones have either vertical lines or rows of small excised pendant triangles; white pigment
<b>Compound Bowl</b>					
2003.08.34	26.2	40.3	8.5	Ripley Engraved, <i>var. Galt</i>	Scroll and circle (swastika in circle); excised columns and triangles in upper and lower scroll fill zones; white pigment
2003.08.320	14.8	28.9	3.4	Turner Engraved, <i>var. Turner</i>	Upper panel: three horizontal engraved lines; lower panel: upper and lower excised triangles divided by vertical or diagonal lines
2003.08.500	14.7	29.1	3.4	Turner Engraved, <i>var. Turner</i>	Upper panel: three horizontal engraved lines; lower panel: upper and lower excised triangles divided by either a vertical or a diagonal line

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.508+	7.7	19.6	1.0	Turner Engraved, <i>var. Horton</i>	Circle with hooked arm and vertical columns under rim peaks; lower panel has large upper and lower excised triangles divided by a vertical or a diagonal line; white pigment
2003.08.522	23.9	39.8	7.6	Ripley Engraved, <i>cf. var. Galt</i>	Upper panel: three horizontal lines, one with excised pendant triangles; lower panel: scrolls and central circles (with inner diamond); negative ovals, excised triangles, and hooked arm elements in scroll fill zones
2003.08.531	31.3	33.2	8.3	Ripley Engraved	Lower panel: two rows of panels created by open and excised brackets; panels have single central horizontal engraved line; red-slipped and white pigment
2003.08.574	5.6	7.1	0.32	Ripley Engraved	Lower panel: two rows of tool punctates, sets of vertical engraved lines, and applied knobs; stacked scrolls that end in open triangles
2003.08.576#	9.2	20.9	1.5	Belcher Engraved, <i>var. Belcher</i>	Upper panel: lip notched and row of excised tool punctates; lower panel: applied nodes, a row of excised punctates; and horizontal-vertical lines with small excised triangles
2003:08.655	24.2	35.3	6.8	Ripley Engraved, <i>var. Pilgrims</i>	Lower panel: interlocking horizontal scrolls with open bracket dividers; interlocking elements are sets of vertical engraved lines; white pigment

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.694	28.0	34.0	7.6	Ripley Engraved, cf. <i>var. Gandy</i>	Upper panel: three horizontal engraved lines; lower panel: scrolls with open bracket dividers and upper and lower rows of small excised pendant triangles
2003.08.779+	9.1	13.8	1.0	Ripley Engraved, <i>var. Cash</i>	Upper panel: three horizontal engraved lines; lower panel: circles and nested triangles with inner diamonds; triangle fill elements; red pigment
2003.08.1009	N/A	30.3	N/A	Ripley Engraved, <i>var. Cash</i>	Lower panel: circles and nested triangles; inner circles with rays or inner triangles with excised corners; red pigment
2003.08.1014	N/A	N/A	N/A	Taylor Engraved	Lower panel: scrolls that end in hooked arm elements; upper and lower triangular scroll fill zones; body: nested triangles with inner excised triangles; red-slipped
2003.08.1022	7.2	20.0	1.2	Turner Engraved, <i>var. Turner</i>	Upper panel: two horizontal engraved lines; lower panel: upper and lower alternating excised triangles divided by either a diagonal or vertical line; white pigment
2003.08.1076	N/A	N/A	N/A	Ripley Engraved, <i>var. Williams</i>	Alternate nested triangles; within triangles are small central circles with tick marks and a short hatched meandering scroll
2003.08.1767	5.6	9.1	0.40	Turner Engraved	Upper panel: two horizontal engraved lines, one with excised pendant triangles; lower panel: excised triangles divided by vertical lines; red pigment

**Table 3. Catalog of Titus Phase Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.1948	N/A	11.0	N/A	UID, probably Ripley Engraved	Sideways S-elements and narrow hatched zones
<b>Jar</b>					
2003.08.72	10.2	15.1	0.92	Turner Engraved	Upper and lower horizontally hatched pendant triangles
2003.08.570	6.3	8.1	0.31	Taylor Engraved	Concentric circles and upper and lower open triangle dividers; white pigment
2003.08.575	7.9	9.4	0.44	Taylor Engraved	Body: Concentric circles and upper and lower open triangle dividers
2003.08.610	15.2	14.3	1.3	Ripley Engraved	Tool punctated row on lip; Rim: horizontal engraved lines and panels with scrolls and bracket dividers with small excised tick marks; body: scrolls and central circles with triangular dividers with hatched corners and small excised pendant triangles
2003.08.735	8.2	10.9	0.53	UID	Open triangle and hooked arm element
2003.08.1025	10.4	10.0	0.62	Ripley Engraved	Rim: horizontal engraved panel with excised brackets; body: concentric circles divided by large SZ elements and outlined by hatched and cross-hatched zones
2003.08.1351	7.6	12.7	0.58	Wilder Engraved	Vertical encircled scrolls that end in hooked arm elements; scrolls originate in upper and lower open triangles; red pigment

^Booker site, location unknown; \*collared; \*\*spool neck; \*\*\*carinated body; \*\*\*\*lip nodes; + rim peak; ++Redwine mode lip; +++suspension holes; ++++scalloped lip; #likely vessel of non-local origin

The majority of the identified types in the Titus phase vessel series are various varieties of Ripley Engraved carinated bowls, compound bowls, and bowls (Figure 14), along with Wilder Engraved bottles (Figure 15). But there are also unidentified or unspecified varieties of both types in this collection, as well as vessels of the following fine ware types: Bailey Engraved, Belcher Engraved, *var. Belcher* (see Schambach and Miller 1984:120 and Figure 11-11), Hodges Engraved, Keno Trailed, Taylor Engraved, and Turner Engraved (see Suhm and Jelks 1962; Perttula et al. 2010b). The Belcher Engraved compound bowl was likely obtained from a Northwest Louisiana or Southwest Arkansas Caddo group; Fields and Gadus (2012) note that Belcher phase vessels are present in the mid-Sabine River basin Titus phase Pine Tree Mound site (41HS15) vessel and sherd assemblage.

Beakers account for only 1.2% of the fine wares in the Titus phase vessel series. Both engraved beakers (Figure 16a-b) have vertical engraved scrolls, but with either embedded S-shaped and negative S-shaped elements or embedded concentric circles with inner cross-hatched circles. The scrolls have vertical scroll dividers with excised zones, ovals, and SZ elements outlined by hatched lines.

The engraved bottles in the Titus phase vessel series are dominated by Ripley Engraved (n=16, 35%), Wilder Engraved (n=11, 24%), and Bailey Engraved (n=9, 20%) vessels. Only one of the Ripley Engraved bottles can be identified to a variety (*var. Ripley*), while 55% of the Wilder Engraved bottles can be classified as *var. Wilder* (see Figure 15a-c). Other fine ware types represented in the bottles include Taylor Engraved or cf. Taylor Engraved (n=4, 8.7%), Hodges Engraved (n=2, 4.3%), and Keno Trailed (n=1, 2.2%), as well as three bottles of unidentified type (Figures 17-27). These three bottles have unique combinations of stylistic elements, including scrolls and circles, triangles, semi-circles and hooked arms, and vertical encircled scrolls filled with tool punctates (Figures 20b, 21c, and 22c).

The presence of Hodges Engraved and Keno Trailed bottles is indicative of ca. post-A.D. 1600/1650 Caddo manufacture or use by Titus phase Caddo peoples in the Big Cypress Creek and mid-Sabine River basin areas. So too are spool neck bottles, a late Titus phase bottle neck form: 8.7% of the Titus phase bottles in this vessel series have spool necks (see Table 3). This includes two Wilder Engraved, *var. Wilder* bottles, a Bailey Engraved bottle, and the Keno Trailed bottle.

Six bottles (13%) have collared necks, including 25% of the Ripley Engraved bottles, 9% of the Wilder Engraved bottles, and 33% of the Taylor Engraved bottles (see Table 3). Carinated bodies on the bottles in the Titus phase vessel series are relatively common, as 22% of the bottles in the assemblage have this body attribute: 19% of the Ripley Engraved bottles, 9% of the Wilder Engraved bottles, 50% of the Hodges Engraved bottles, 33% of the Taylor Engraved bottles, the one Keno Trailed bottle, and 100% of the bottles unidentified to type.

The use of pigments rubbed into engraved designs is a notable feature of the bottles in the Titus phase vessel series, as 54% have either a red (n=21), white (n=3), or both red/white (n=1) pigments (see Table 3). More than 56% of the Ripley Engraved bottles have a red (n=7) or white (n=1) clay pigment, as well as one bottle with both pigments (see Figure 25d), and 78% of the Bailey Engraved bottles have a pigment, mostly the red pigment; 45% of the Wilder Engraved bottles have a red (n=4) or white pigment (n=1). One of the two Hodges Engraved bottles has a red pigment, and 50% of the Taylor Engraved bottles have a red pigment. One of the bottles unidentified to type has an exterior red slip.

The small to medium-sized engraved bowls in this Titus phase vessel series account for only 2.4% of the fine wares listed in Table 3. They include an unidentified engraved-punctated bowl (Figure 28a) and three others of the Ripley Engraved type, or likely so (Figure 28b-d), including one *var. Gandy* bowl (Figure 28b). Another one of the bowls is an effigy bowl (Figure 28c). None of the bowls have a pigment rubbed in the engraved lines.



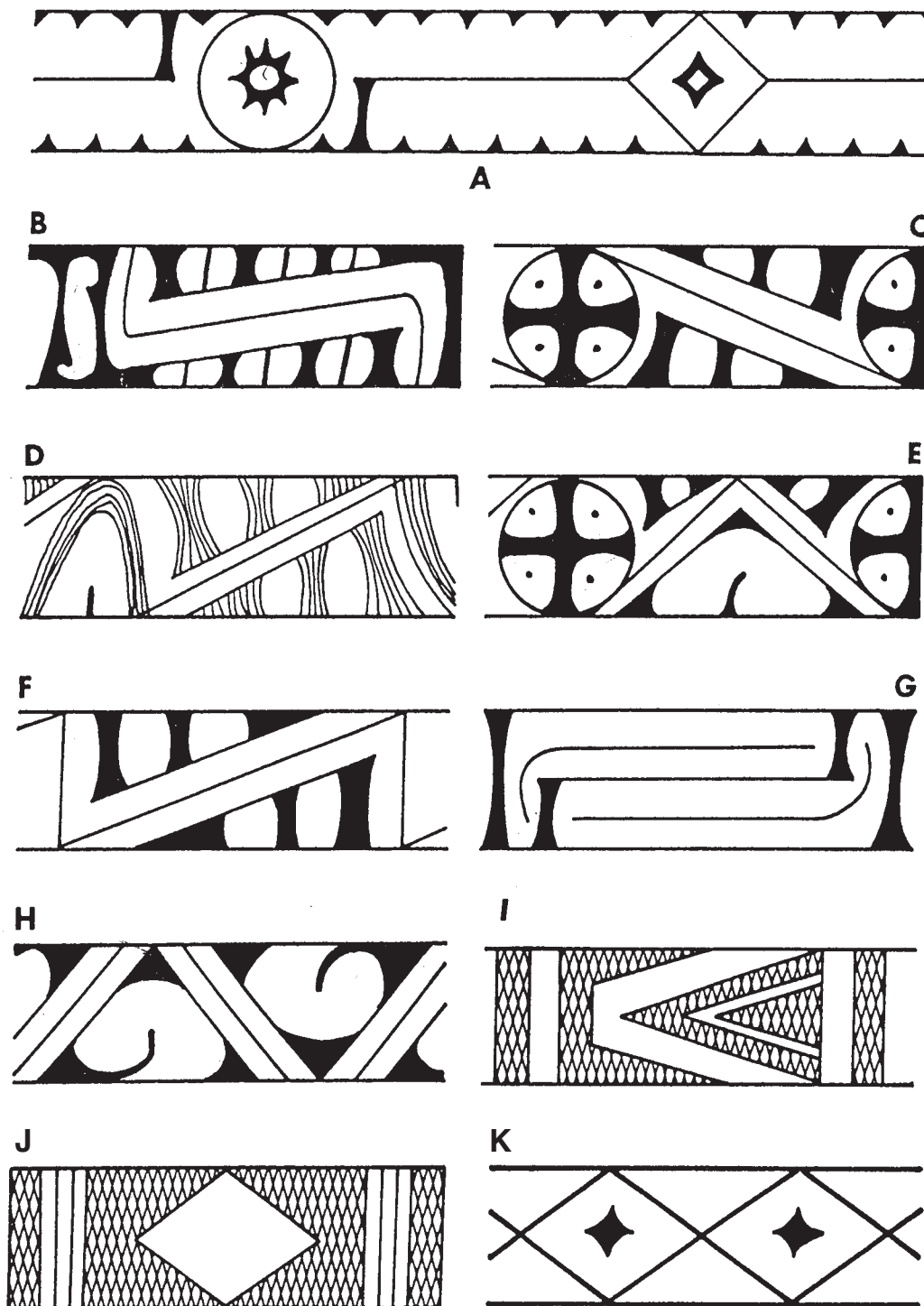


Figure 14. Ripley Engraved carinated bowl, compound bowl, and bowl varieties and motifs (after Thurmond 1990; Pertulla et al. 2010b): a, *var. McKinney*, pendant triangle; b, *var. Gandy*, scroll; c, *var. Galt*, scroll and circle; d, *var. Caldwell*, scroll and semi-circle; e, *var. Cash*, circle and nested triangle; f, *var. Carpenter*, continuous scroll; g, *var. Pilgrims*, interlocking horizontal scroll; h, *var. Williams*, alternate nested triangle; i, *var. unspecified*, horizontal diamond; j, *var. Reed*, bisected diamond; k, *var. unspecified*, interlocking diamond.

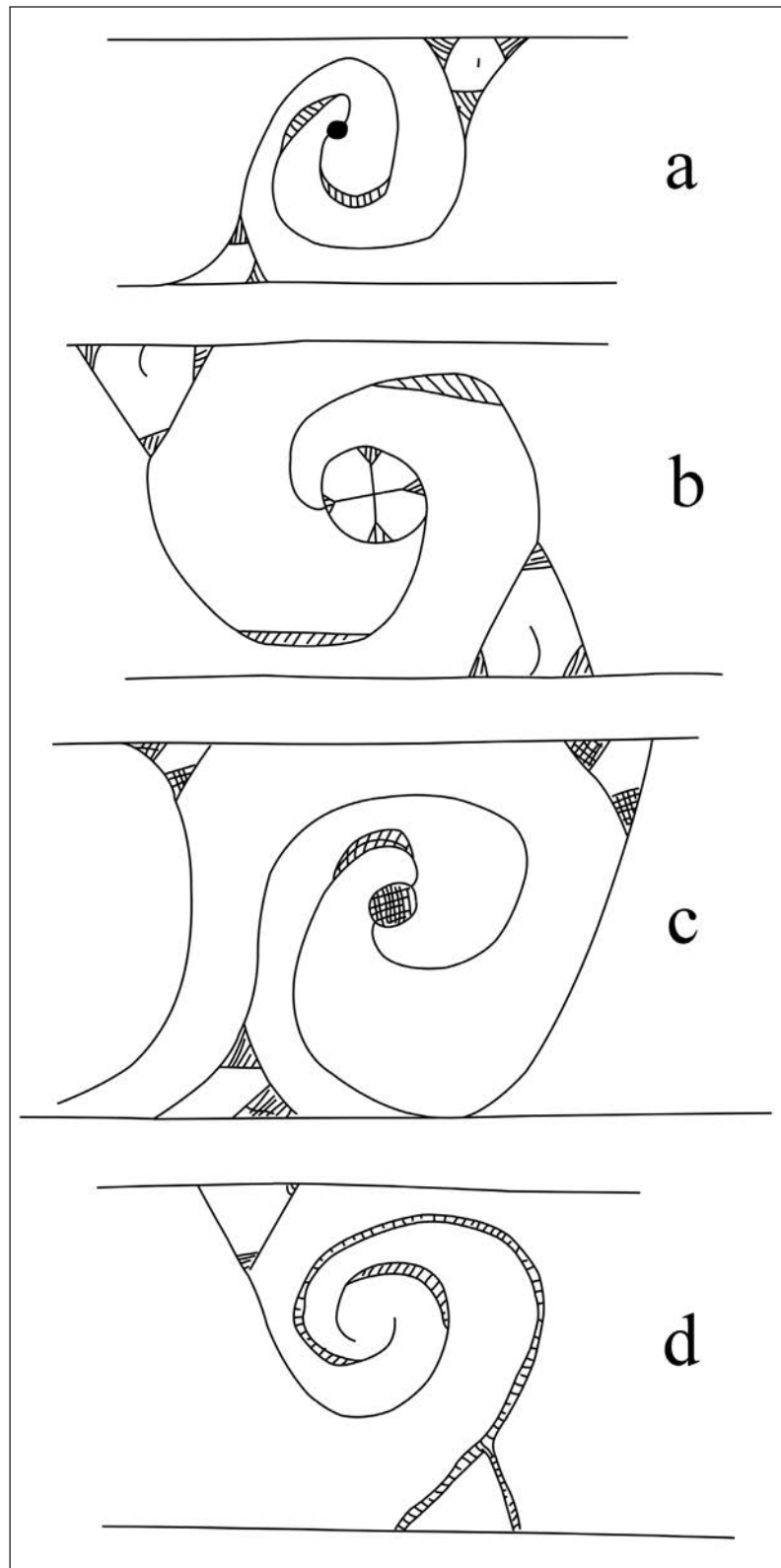


Figure 15. Wilder Engraved varieties and motifs (after Perttula et al. 2010).



Figure 16. Titus phase engraved beakers: a, 2003.08.78; b, 2003.08.1788.



**Figure 17. Titus phase engraved bottles: a, 2003.08.28; b, 2003.08.38; c, 2003.08.41.**



**Figure 18. Titus phase engraved bottles: a, 2003.08.53; b, 2003.08.56; c, 2003.08.81; d, 2003.08.87.**



**a**



**b**



**c**



**d**

**Figure 19.** Titus phase engraved bottles: a, 2003.08.95; b, 2003.08.191; c, 2003.08.195; d, 2003.08.197.



**Figure 20. Titus phase engraved bottles: a, 2003.08.229; b, 2003.08.288; c, 2003.08.313; d, 2003.08.390.**



**Figure 21. Titus phase engraved bottles: a, 2003.08.406; b, 2003.08.458; c, 2003.08.513; d, 2003.08.515.**





**Figure 22.** Titus phase engraved bottles: a, 2003.08.572; b, 2003.08.579; c, 2003.08.618 (red-slipped); d, 2003.08.697.



**Figure 23. Titus phase engraved bottles: a, 2003.08.714; b, 2003.08.777; c, 2003.08.832.**



**Figure 24. Titus phase engraved bottles: a, 2003.08.860; b, 2003.08.861; c, 2003.08.862; d, 2003.08.975.**



**Figure 25.** Titus phase engraved bottles: a, 2003.08.994; b, 2003.08.1023; c, 2003.08.1127; d, 2003.08.1165.



a



b



c



d

**Figure 26. Titus phase engraved bottles: a, 2003.08.1241; b, 2003.08.1352; c, 2003.08.1768; d, 2003.08.1796.**



a



b



c

Figure 27. Titus phase engraved bottles: a, 2003.08.1812; b, 2003.08.1815; c, 2003.08.1829.

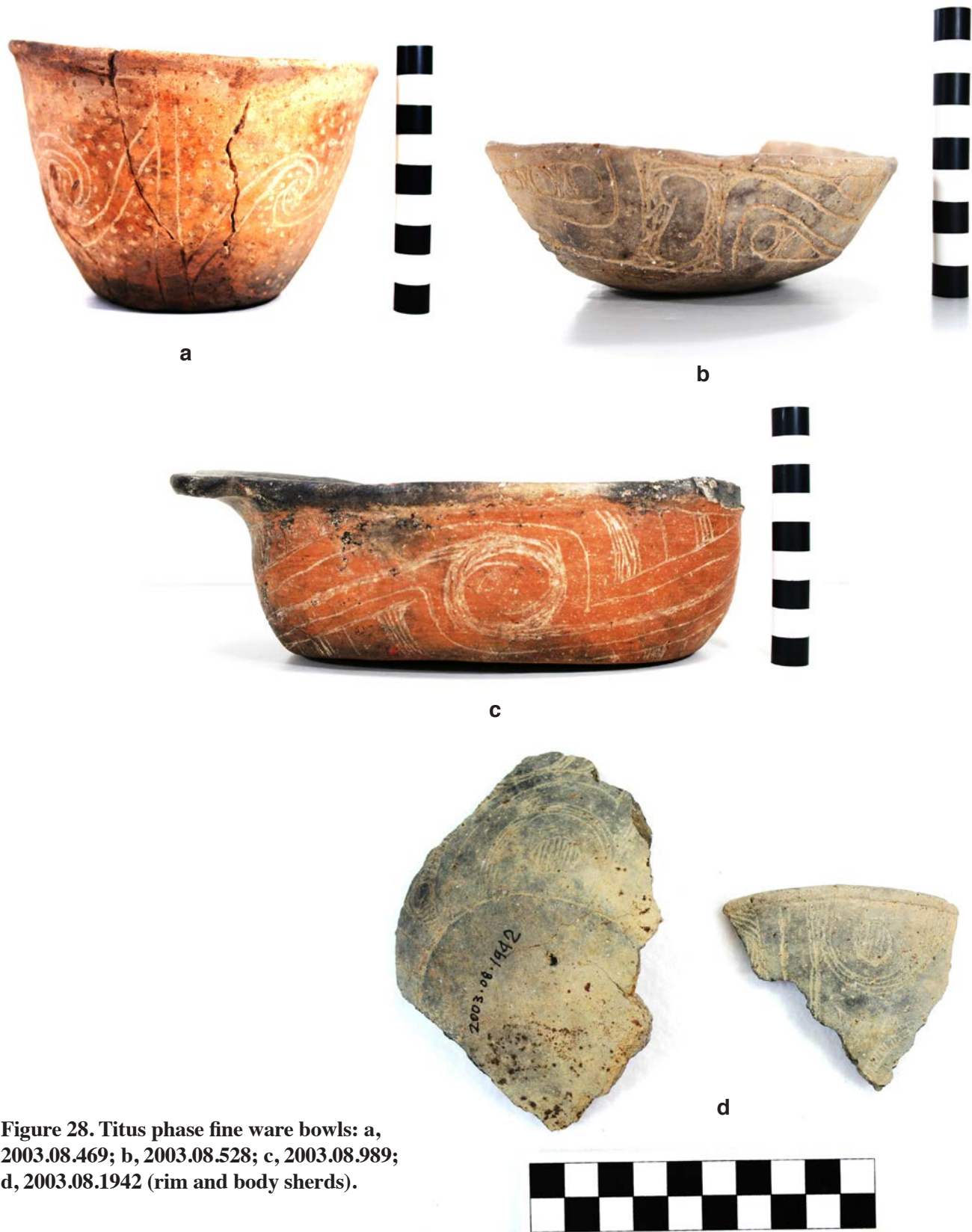


Figure 28. Titus phase fine ware bowls: a, 2003.08.469; b, 2003.08.528; c, 2003.08.989; d, 2003.08.1942 (rim and body sherds).

The one deep bowl is a very distinctive shell-tempered Taylor Engraved red-slipped vessel (Figure 29). This vessel is likely one that was made by a mid-Red River McCurtain phase Caddo potter, since it is shell-tempered, and then imported to a Titus phase Caddo group in the mid-Sabine or Big Cypress Creek basins.



**Figure 29. Titus phase engraved deep bowl, 2003.08.1060 (rim sherds).**

The small to very large (up to 4.7 liters in volume) carinated bowls in the Titus phase vessel series (Figures 30-51) are dominated by a number of varieties (see Figure 14) of Ripley Engraved (89.1%), including *var. Caldwell* (n=1); *var. Carpenter* (n=6) and cf. *var. Carpenter* (n=3); *var. Cash* (n=4); *var. Galt* (n=10); *var. Gandy* (n=15) and cf. *var. Gandy* (n=8); *var. McKinney* (n=18); *var. Pilgrims* (n=3); *var. Reed* (n=1) and cf. *var. Reed* (n=1); *var. Williams* (n=2) and cf. *var. Williams* (n=1); and *var. unspecified* (n=9). Clearly the predominant rim panel decorative motifs in this Titus phase vessel series feature scrolls, pendant triangles, scrolls and circles, and continuous scrolls. The wide range of varieties of Ripley Engraved present suggest the vessels are from Caddo sites throughout the bounds of the Titus phase area, and that they are from features/burials that span much, if not all, of the ca. 250 years of the Titus phase settlement of the Big Cypress Creek and mid-Sabine River basins.

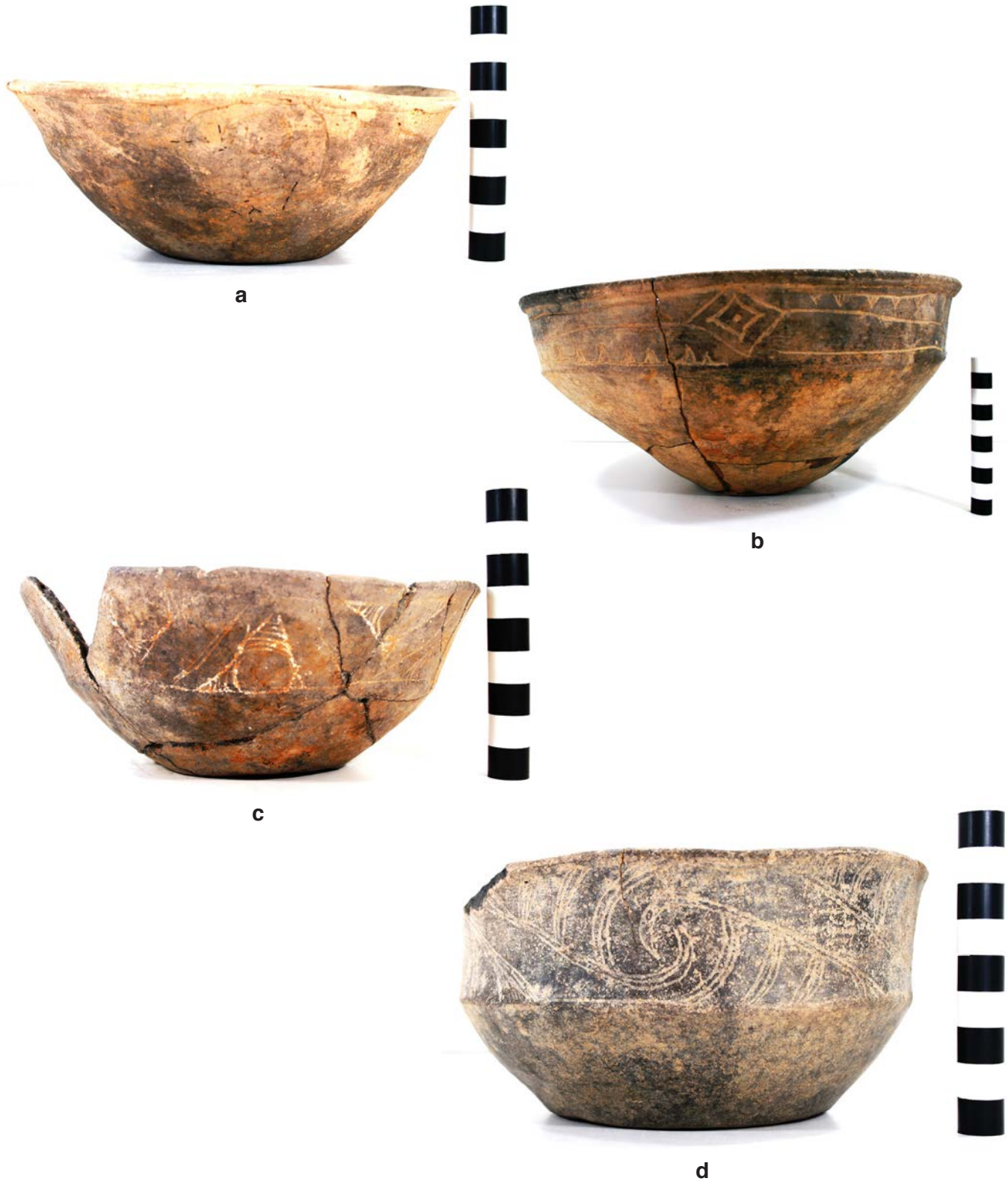




**Figure 30. Titus phase engraved carinated bowls: a, 2003.08.1439; b, 2003.08.1525; c, 2003.08.1526; d, 2003.08.33.**



**Figure 31. Titus phase engraved carinated bowls: a, 2003.08.80; b, 2003.08.82; c, 2003.08.194; d, 2003.08.210.**



**Figure 32.** Titus phase engraved carinated bowls: a, 2003.08.211; b, 2003.08.276; c, 2003.08.329; d, 2003.08.386.



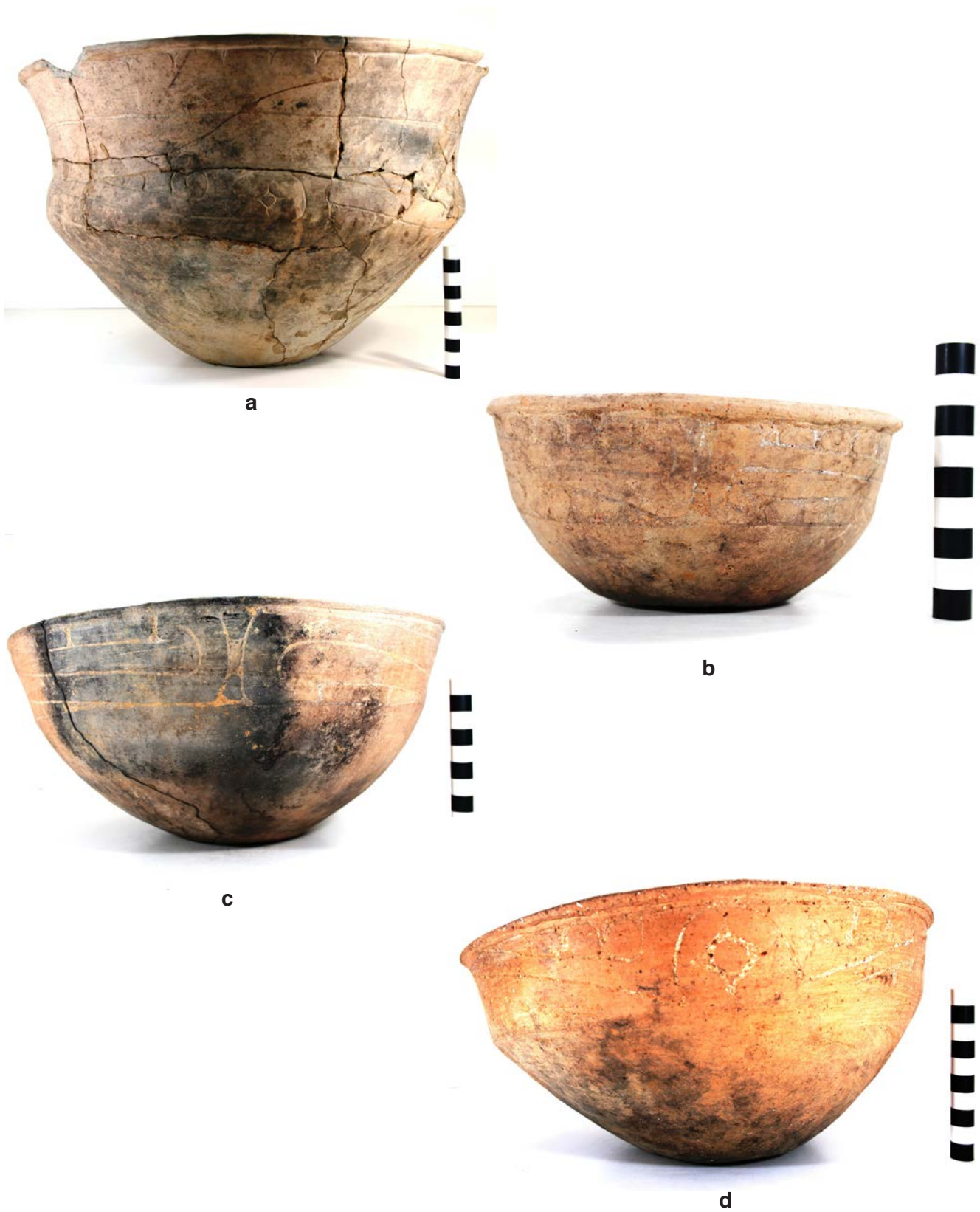
**Figure 33. Titus phase engraved carinated bowls: a, 2003.08.398; b, 2003.08.405; c, 2003.08.415; d, 2003.08.423.**



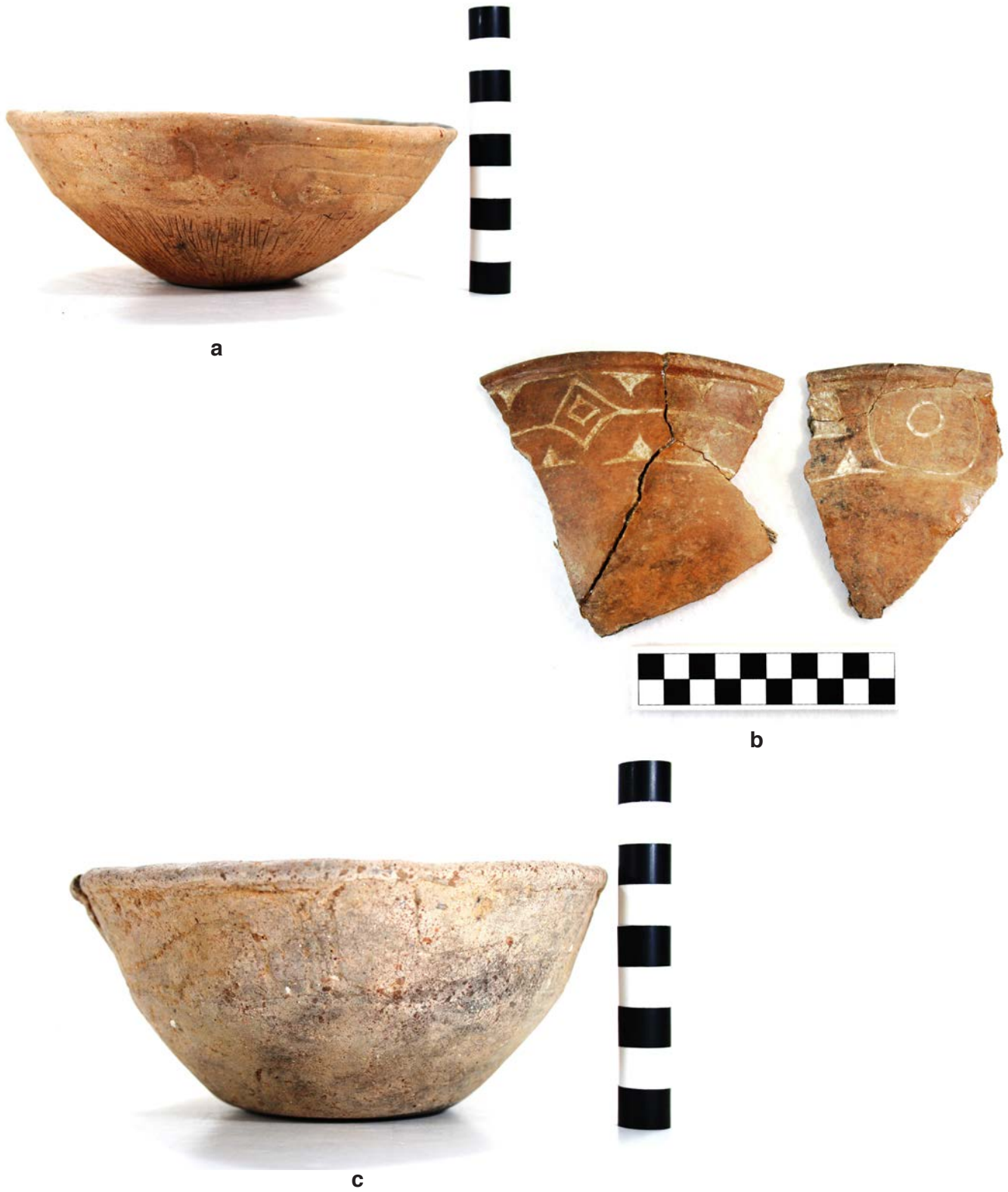
**Figure 34. Titus phase engraved carinated bowls: a, 2003.08.447; b, 2003.08.449; c, 2003.08.456; d, 2003.08.457.**



**Figure 35. Titus phase engraved carinated bowls: a, 2003.08.488; b, 2003.08.511; c, 2003.08.512; d, 2003.08.521.**



**Figure 36.** Titus phase engraved carinated and compound bowls: a, 2003.08.522; b, 2003.08.523; c, 2003.08.526; d, 2003.08.527.



**Figure 37. Titus phase engraved carinated bowls: a, 2003.08.529 (brushed body); b, 2003.08.544; c, 2003.08.545.**





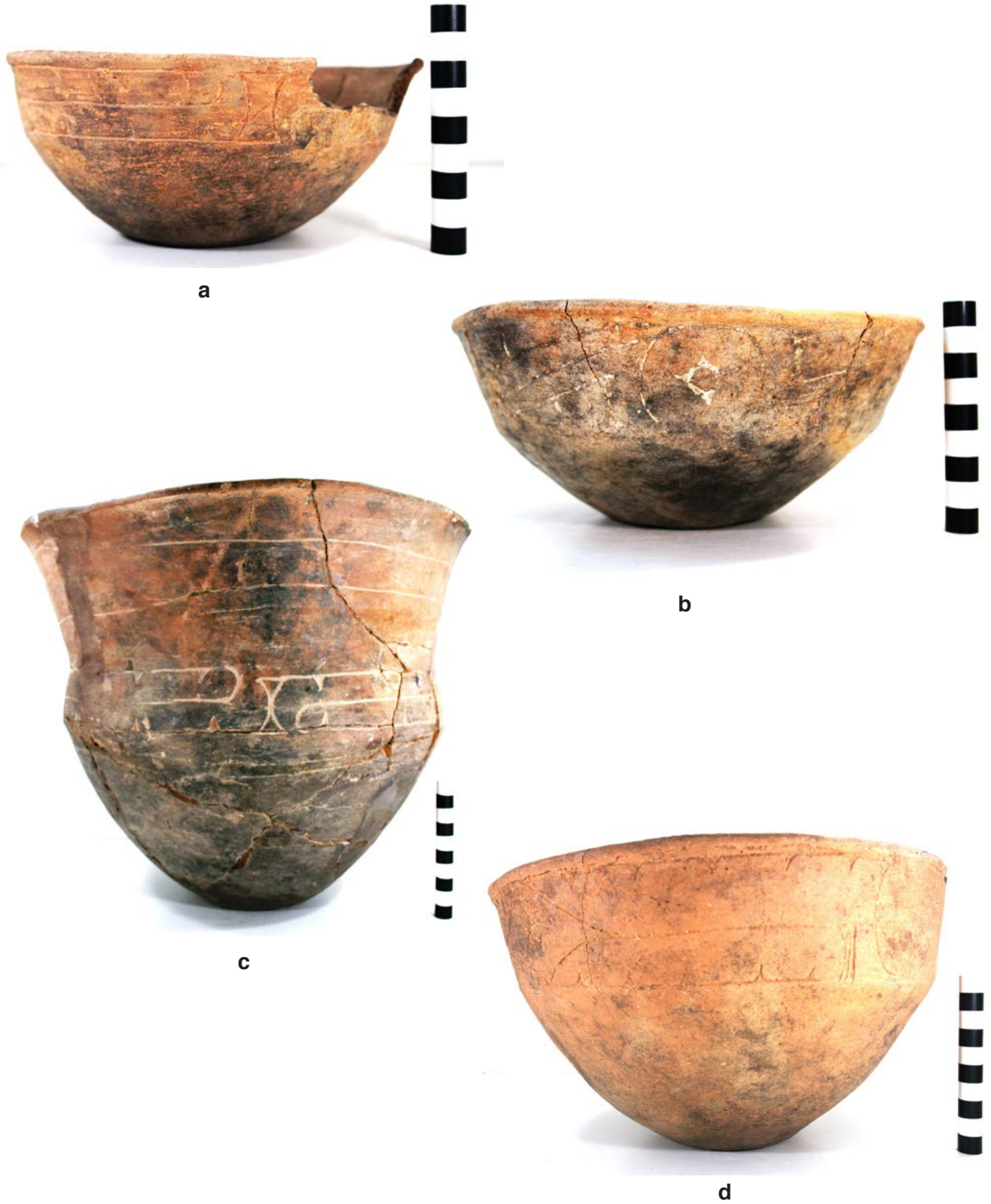
**Figure 38. Titus phase engraved carinated bowls: a, 2003.08.559; b, 2003.08.564; c, 2003.08.584; d, 2003.08.585.**



**Figure 39. Titus phase engraved carinated bowls: a, 2003.08.589; b, 2003.08.620; c, 2003.08.621; d, 2003.08.623.**



**Figure 40.** Titus phase engraved carinated bowls: a, 2003.08.626; b, 2003.08.648; c, 2003.08.656; d, 2003.08.671.



**Figure 41. Titus phase engraved carinated bowls and compound bowls: a, 2003.08.675; b, 2003.08.687; c, 2003.08.694; d, 2003.08.722.**



Figure 42. Titus phase engraved carinated bowls: a, 2003.08.745; b, 2003.08.746; c, 2003.08.753; d, 2003.08.776.



**Figure 43. Titus phase engraved carinated bowls: a, 2003.08.781; b, 2003.08.863; c, 2003.08.879; d, 2003.08.921.**



Figure 44. Titus phase engraved carinated bowls: a, 2003.08.945; b, 2003.08.949 (rim sherds); c, 2003.08.984; d, 2003.08.996.



**Figure 45. Titus phase engraved carinated bowls: a, 2003.08.1013 (rim sherds); b, 2003.08.1015; c, 2003.08.1029; d, 2003.08.1051.**





Figure 46. Titus phase engraved carinated bowls: a, 2003.08.1059 (rim sherd); b, 2003.08.1062 (rim sherds); c, 2003.08.1063 (rim sherds); d, 2003.08.1066 (rim sherd).



**Figure 47. Titus phase engraved carinated bowls: a, 2003.08.1075 (rim sherd); b, 2003.08.1084 (rim and body sherds); c, 2003.08.1085 (rim sherd).**



Figure 48. Titus phase engraved carinated bowls: a, 2003.08.1087; b, 2003.08.1088; c, 2003.08.1089; d, 2003.08.1090.



Figure 49. Titus phase engraved carinated bowls: a, 2003.08.1255; b, 2003.08.1261; c, 2003.08.1354; d, 2003.08.1419.



**Figure 50.** Titus phase engraved carinated bowls: a, 2003.08.1420; b, 2003.08.1429; c, 2003.08.1617; d, 2003.08.1773.



**Figure 51.** Titus phase engraved carinated bowls: a, 2003.08.1784; b, 2003.08.1807; c, 2003.08.3156.

There are also a few vessels (n=8, 8.7%) of Taylor Engraved or cf. Taylor Engraved, one (1.1%) Turner Engraved vessel, and one (1.1%) of unidentified type (see Figure 40b). This particular vessel is shell-tempered, has a single horizontal engraved line, and is considered likely to be a ceramic vessel of non-local origin.

A few of these carinated bowls have distinctive formal attributes (see Table 3). These include a Turner Engraved vessel with a collared body, a Taylor Engraved vessel with lip nodes, and a Ripley Engraved, cf. *var. Reed* vessel with a Redwine mode lip.

Many of the carinated bowls (38%) in the Titus phase vessel series have had a clay pigment rubbed in the engraved lines on the rim panels. Most of the carinated bowls have a white pigment (n=29, 83% of the vessels with a pigment), a few have a red pigment (n=5, 14%), and one Taylor Engraved vessel has both red and white clay pigments. The dominance in the use of white clay pigments on these carinated bowls stands in stark contrast to the Titus phase bottle vessel series, where 84% of the bottles with a pigment have a red pigment. Two carinated bowls (2.2%) are red-slipped: single vessels of Ripley Engraved, *var. Galt* and *var. McKinney* (see Table 3).

The engraved compound bowls in the Titus phase vessel series include several different fine ware types, particularly Turner Engraved, *var. unspecified*, *var. Turner*, and *var. Horton* (n=5, Figure 52a-d), Ripley Engraved, *var. Cash* (n=2), *var. Galt* (n=1), cf. *var. Galt* (n=1), cf. *var. Gandy* (n=1), *var. Pilgrims* (n=1), *var. Williams* (n=1), and *var. unspecified* (n=2). These types and varieties represent 82% of the compound bowl vessel series (Figures 53-56). The other compound bowl fine wares include Taylor Engraved (n=1), Belcher Engraved, *var. Belcher* (Figure 54d)—a vessel of non-local provenance—and an unidentified vessel with a sideways SZ element (see Table 3).

Two of the fine ware compound bowls (11.8%) have rim peaks, and two others (Taylor Engraved and a Ripley Engraved, *var. unspecified*) are red-slipped. The use of clay pigments is common in the compound bowls, as 47% have either a hematite-rich red pigment (n=3) or a white kaolin clay pigment (n=5); the proportion of white clay pigment on these compound bowls is more like that of the carinated bowls than it is like the fine ware bottles. The compound bowls with the red pigment rubbed in the engraved lines include both Ripley Engraved, *var. Cash* vessels and the Turner Engraved, *var. unspecified* vessel. The compound bowls with the white pigment include single vessels of Ripley Engraved, *var. Galt*, *var. Pilgrims*, and *var. unspecified*, and single vessels of Turner Engraved, *var. Horton* and *var. Turner*.

The engraved jars represent 4.1% of the Titus phase vessel series (see Table 3). They include small to medium-sized Ripley Engraved (n=2), Taylor Engraved (n=2), Turner Engraved (n=1), and Wilder Engraved (n=1) vessels (Figures 57-58), as well as a vessel of unidentified type with open triangle and hooked arm elements.

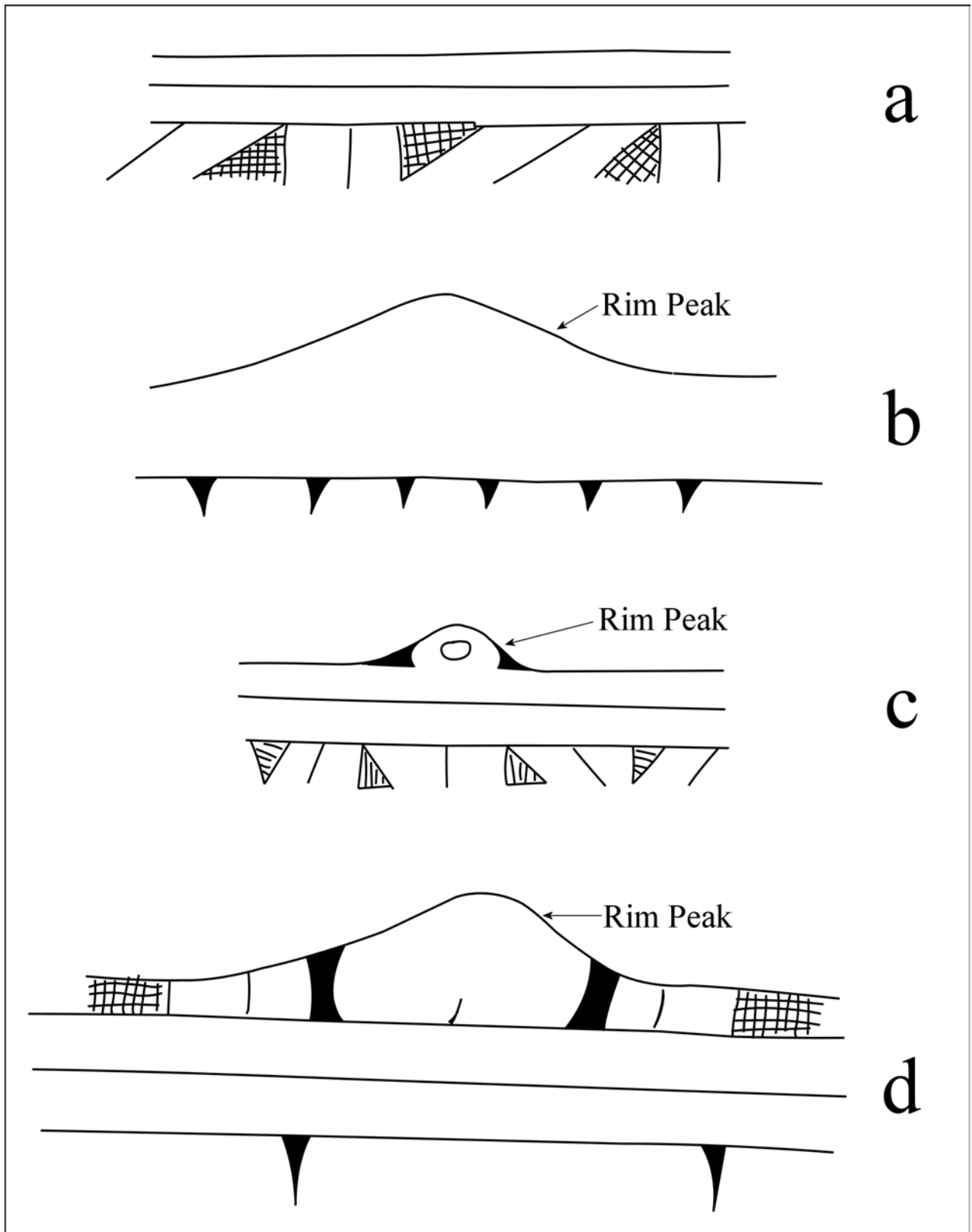


Figure 52. Turner Engraved varieties and motifs (after Perttula et al. 2010b): a-b, *var. Turner*; c-d, *var. Horton*.





**Figure 53. Titus phase engraved compound bowls: a, 2003.08.1948; b, 2003.08.34; c, 2003.08.320; d, 2003.08.500.**



**Figure 54. Titus phase engraved compound bowls: a, 2003.08.508; b, 2003.08.531; c, 2003.08.574; d, 2003.08.576.**



**Figure 55. Titus phase engraved compound bowls: a, 2003.08.655; b, 2003.08.779; c, 2003.08.1009 (rim sherd); d, 2003.08.1014.**



**Figure 56.** Titus phase engraved compound bowls: a, 2003.08.1022; b, 2003.08.1076 (rim sherds); c, 2003.08.1767.



**Figure 57. Titus phase engraved jars: a, 2003.08.72; b, 2003.08.570; c, 2003.08.575; d, 2003.08.610.**



**Figure 58. Titus phase engraved jars: a, 2003.08.1025; b, 2003.08.1351.**

The 50 decorated utility ware vessels from presumed Titus phase contexts in the mid-Sabine River and Big Cypress Creek basins include bowls (n=4), carinated bowls (n=1), and jars (n=45) with wet paste designs (Table 4). Jars comprise 90% of the Titus phase utility ware vessel series.

**Table 4. Catalog of Titus Phase Utility Ware Vessels.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
<b>Bowl</b>					
2003.08.44	3.3	8.2	0.11	Moore Noded	Three rows of applied nodes on vessel; suspension holes
2003.08.91	7.0	19.1	0.53	Moore Noded	Three rows of applied nodes on vessel; brushed- incised marks in alternate directions between the nodes
2003.08.454	4.9	10.1	0.20	Rattle bowl	Concentric applied ridges and four large applied knobs
2003.08.1530^	N/A	25.0	N/A	UID	Horizontal incised lines

**Table 4. Catalog of Titus Phase Utility Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
<b>Jar</b>					
2003.08.235	9.4	11.2	0.63	Moore Noded	Rim: horizontal incised lines; body: rows of pinched nodes
2003.08.25*/**	10.3	10.2	0.63	Harleton Applied	Horizontal applied band on rim; body: applied fillet scrolls and oval- shaped central elements
2003.08.51	12.1	12.5	0.91	Pease Brushed- Incised	Rim: horizontal incised lines; body: vertical applied fillets and vertical incised-filled panels
2003.08.84	14.0	9.6	0.8	Karnack Brushed- Incised	Rim: horizontal brushed; body: vertical brushed- incised marks and lines
2003.08.92***	10.1	11.1	0.67	Maydelle Incised	Rim: incised chevrons; body: vertical brushed
2003.08.110	16.9	11.6	1.8	Cass Applied	Rim: two tool punctated rows; body: vertical applied fillets with vertical brushing between the fillets
2003.08.113	15.2	12.5	1.1	Pease Brushed- Incised	Rim: horizontal brushed and three tool punctated rows through the brushing; body: alternating vertical applied fillets and vertical tool punctated rows, with panels filled with vertical brushing
2003.08.116	13.8	13.3	1.1	Pease Brushed- Incised	Rim: vertical brushed- incised; body: vertical applied fillets and panels filled with vertical brushed-incised marks and lines

**Table 4. Catalog of Titus Phase Utility Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.200**	10.2	13.3	0.82	UID	Rim: horizontal brushed and four applied nodes below rim peaks; body: vertical and overlapping brushed
2003.08.208****	12.1	10.2	0.75	UID	Rim: horizontal incised; body: vertical scrolls with open circles and incised panels with negative ovals and sideways S elements
2003.08.209**	7.6	10.2	0.47	Pease Brushed- Incised	Rim: horizontal brushed and two tool punctated rows; body: vertical applied ridges and panels of vertical brushed-incised marks and lines
2003.08.279	19.1	14.6	2.4	Pease Brushed- Incised	Rim: short vertical incised lines; body: vertical applied fillets and vertical brushed panels
2003.08.330	28.3	18.6	5.5	UID	Rim: horizontal brushed-incised; body: vertical brushed
2003.08.356	12.0	12.8	0.79	Emory Punctated- Incised#	Rim: two rows of linear tool punctates; four applied nodes under lip; shell-tempered
2003.08.360	15.2	10.3	0.94	Karnack Brushed- Incised	Rim: one tool punctated row; body: vertical brushed-incised marks and lines
2003.08.392	16.4	12.4	1.8	Cass Applied	Rim: horizontal brushed-incised and two tool punctated rows; body: vertical applied fillets and vertical brushing between the fillets



**Table 4. Catalog of Titus Phase Utility Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.414	10.8	10.8	0.69	cf. Pease Brushed- Incised	Rim: horizontal brushed- incised and one tool punctated row; body: vertical applied ridges and vertical brushed panels
2003.08.416	12.9	12.5	0.79	Pease Brushed- Incised	Rim: horizontal brushed and three rows of tool punctates; vertical applied fillets and vertical brushed panels
2003.08.429	14.0	12.7	1.1	Cass Applied	Rim: horizontal brushed; body: vertical applied ridges and fillets
2003.08.435	16.5	13.3	1.9	Belcher Ridged#	Rim: vertical brushed and single horizontal incised line; body: vertical ridges
2003.08.481**/**	17.8	17.8	2.8	Harleton Applied	Rim: diagonal brushed and one tool punctated row; body: applied fillet scrolls with oval-shaped central elements; triangular applied fillet scroll fill zones
2003.08.552*/**	13.0	11.5	0.9	Harleton Applied	Rim: tool punctated row at the lip; handles: pinched rows; body: applied ridge circles and scrolls with applied node at center; horizontal applied fillets
2003.08.578	9.6	8.9	0.52	Karnack Brushed- Incised	Rim: horizontal brushed; body: vertical brushed- incised marks and lines
2003.08.609	12.1	12.1	0.88	Karnack Brushed- Incised	Rim: horizontal brushed; body: diagonal brushed

**Table 4. Catalog of Titus Phase Utility Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.611	11.5	14.0	0.97	Harleton Appliqued	Rim: two tool punctated rows; body: applied fillet scrolls and circles with central nodes; upper and lower applied fillet triangle dividers; horizontal applied fillet upper border
2003.08.659	N/A	14.0	N/A	UID	Rim: diagonal opposed incised lines; body: diagonal brushed
2003.08.665	18.8	20.3	3.4	LaRue Neck Banded	Six rows of neck banding on the rim; vertical brushed body
2003.08.666*/**	16.7	16.7	2.5	Harleton Appliqued	Applied fillet scrolls and circles, with central applied nodes; applied fillet triangle dividers
2003.08.703	16.3	16.1	2.4	Pease Brushed- Incised	Rim: three tool punctated rows; body: vertical applied fillets and vertical incised lines in panels
2003.08.734#	10.0	10.2	0.61	Nash Neck Banded	One unsmoothed neck band on rim; shell-tempered
2003.08.770#	8.4	7.8	0.40	Karnack Brushed- Incised	Vertical brushed on body; shell-tempered (see Webb 1959:120)
2003.08.804**	12.1	15.1	1.1	Harleton Appliqued	Rim: three tool punctated rows; body: alternate nested applied fillet triangles; diagonal brushed between fillets
2003.08.805**	13.0	12.5	1.0	Harleton Appliqued	Rim: applied nodes below rim peaks; body: applied ridge continuous scrolls with ovals and linear nodes; horizontal applied ridges at top and bottom of body design

**Table 4. Catalog of Titus Phase Utility Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.843	16.8	13.0	1.9	UID	Rim: two tool punctated rows and diagonal and cross-hatched incised lines; body: vertical tool punctated rows and panels filled with diagonal incised lines pitched in opposite directions
2003.08.926***	18.4	18.0	3.0	Harleton Appliqued	Rim: horizontal incised lines and two tool punctated rows; body: nested applique fillet and incised triangles and diamonds
2003.08.941	N/A	13.0	N/A	Harleton Appliqued	Rim: horizontal brushed and one tool punctated row; body: applique ridge nested triangles with central oval or diamond applique ridge elements
2003.08.944	20.3	18.5	3.4	Harleton Appliqued	Rim: horizontal brushed-incised and two tool punctated rows; body: nested applique fillet diamonds and triangles filled with brushing marks between fillets
2003.08.1006	14.6	13.4	1.2	McKinney Plain	Five vertical applique fillets on the body
2003.08.1010*	N/A	N/A	N/A	Harleton Appliqued	Rim: one tool punctated row; body: tool punctated scrolls with central applique fillet ovals; tool punctated triangle dividers
2003.08.1067	N/A	16.0	N/A	Harleton Appliqued	Rim: horizontal brushed; body: applique fillet circles, triangles, and diagonal lines; horizontal applique fillet at top of body

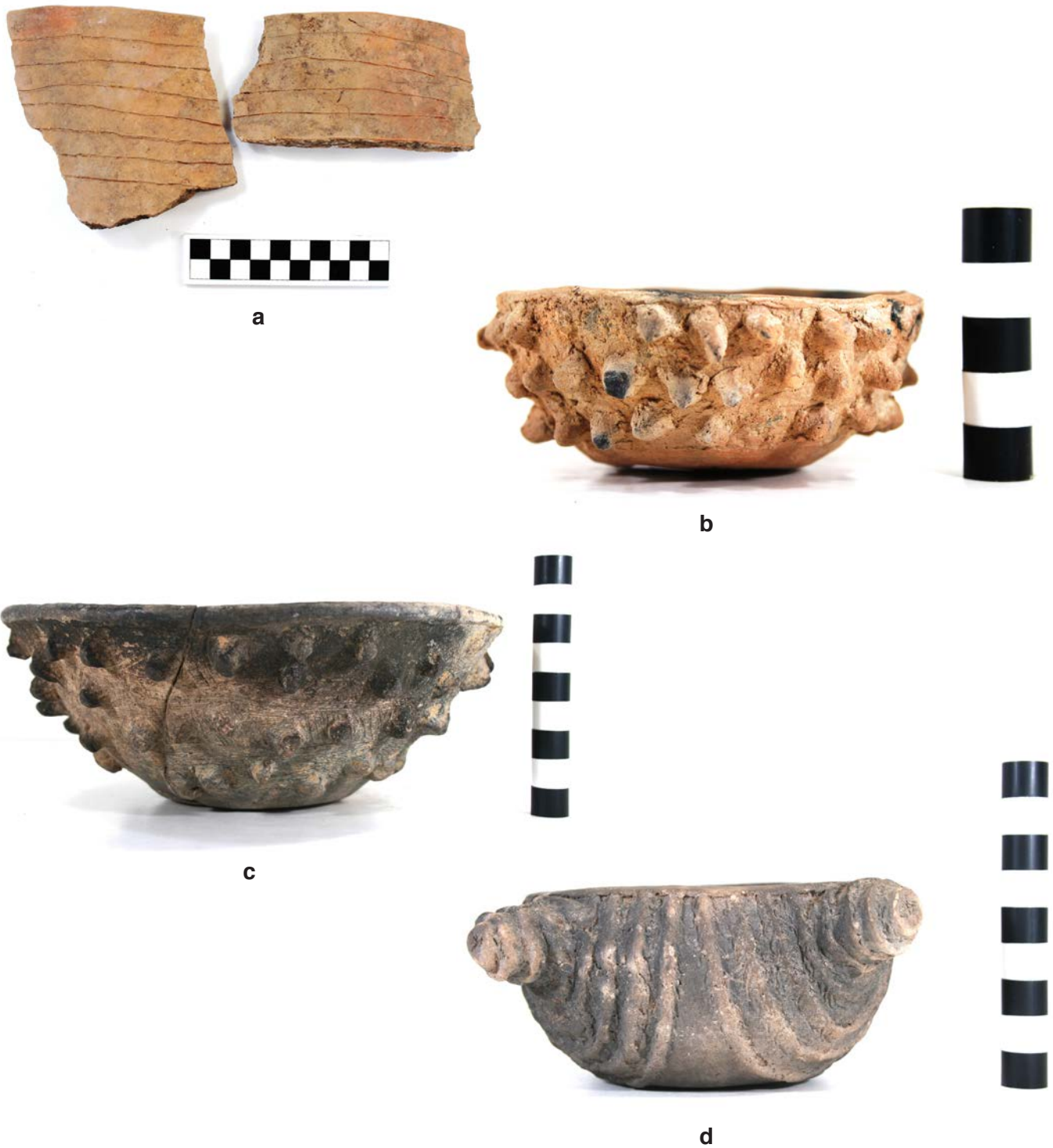
**Table 4. Catalog of Titus Phase Utility Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.1069	N/A	10.2	N/A	Pease Brushed- Incised	Body: vertical applied fillets and panels filled with vertical brushing and overlapping diagonal incised lines
2003.08.1136	N/A	13.0	N/A	LaRue Neck Banded	Rim: three neck bands; body: vertical incised lines
2003.08.1164	N/A	16.0	N/A	Pease Brushed- Incised	Rim: horizontal brushed and two tool punctated rows; body: vertical applied fillets and vertical brushed
2003.08.1527 <sup>^</sup>	14.0	14.0	1.2	UID	Rim: vertical brushed and two tool punctated rows; body: vertical brushed
2003.08.1810 <sup>**</sup>	7.6	7.6	0.35	Pease Brushed- Incised	Rim: horizontal incised and two tool punctated rows; body: vertical applied fillets and panels with diagonal incised lines
2003.08.1817	N/A	12.7	N/A	Harleton Applied	Body: horizontal applied fillet scroll with embedded applied fillet nested diamonds; upper and lower scroll fill zones of applied fillet semi-circles

UID=unidentified; <sup>^</sup>Booker site, location unknown; \*strap handle; \*\*rim peaks; \*\*\*applied lug handles; \*\*\*\*scalloped lip; #probable trade vessel

The four bowls in the Titus phase utility ware vessel series include two Moore Noded vessels (see Webb 1959:120), a rattle bowl, and a bowl with horizontal incised lines (Figure 59). The Moore Noded bowls may be modeled after *Datura* (jimsonweed) pods (see Lankford 2012).

There is another Moore Noded vessel in the series (Figure 60). These noded bowls and jars may have been used in rituals that involved the consumption of psychotropic drugs such as *Datura*.



**Figure 59. Titus phase utility ware bowls: a, incised, 2003.08.1530; b, Moore Noded, 2003.08.44; c, Moore Noded, 2003.08.91; d, Rattle bowl, 2003.08.454.**



**Figure 60. Moore noded jar, 2003.08.235.**

The utility ware jars in the Titus phase vessel series range from small to very large (up to 5.5 liters in volume) in size (see Table 4). The most common types are Harleton Appliqued (n=13, 29%), Pease Brushed-Incised (n=11, 24%), and Karnack Brushed-Incised (n=5, 11%), but there are also Cass Appliqued (n=3, 6.7%), LaRue Neck Banded (n=2, 4.4%), Maydelle Incised (n=1, 2.2%), Emory Punctated-Incised (n=1, 2.2%), Belcher Ridged (n=1, 2.2%), Nash Neck Banded (n=1, 2.2%), and McKinney Plain (n=1, 2.2%) (Figures 61-71). Six other vessels are not identified to type, but they have brushed-appliqued (Figure 63a), brushed-incised (Figure 62a), brushed-punctated (Figure 61a), incised-punctated (Figure 69b), and incised (Figure 63b) decorative elements. The latter vessel has a Ripley Engraved scroll and circle motif (*var. Galt*) executed with incised lines instead of engraved lines.



**Figure 61. Titus phase utility ware jars: a, brushed-punctated, 2003.08.1527; b, Harleton Applied, 2003.08.25; c, Pease Brushed-Incised, 2003.08.51; d, Karnack Brushed-Incised, 2003.08.84.**



**a**



**b**



**c**



**d**

**Figure 62.** Titus phase utility ware jars: a, incised-brushed, 2003.08.92; b, Cass Applied, 2003.08.110; c, Pease Brushed-Incised, 2003.08.113; d, Pease Brushed-Incised, 2003.08.116.





**Figure 63. Titus phase utility ware jars: a, brushed-applied, 2003.08.200; b, incised, 2003.08.208; c, Pease Brushed-Incised, 2003.08.209; d, Pease Brushed-Incised, 2003.08.279.**



**Figure 64. Titus phase utility ware jars: a, Emory Punctated-Incised, 2003.08.356; b, Karnack Brushed-Incised, 2003.08.360; c, Cass Appliqued, 2003.08.392; d, cf. Pease Brushed-Incised, 2003.08.414.**



**Figure 65. Titus phase utility ware jars: a, Pease Brushed-Incised, 2003.08.416; b, Cass Appliqued, 2003.08.429; c, Belcher Ridged, 2003.08.435; d, Harleton Appliqued, 2003.08.481.**



**Figure 66. Titus phase utility ware jars: a, Harleton Applied, 2003.08.552; b, Karnack Brushed-Incised, 2003.08.578; c, Karnack Brushed-Incised, 2003.08.609; d, Harleton Applied, 2003.08.611.**



**Figure 67. Titus phase utility ware jars: a, LaRue Neck Banded, 2003.08.665; b, Harleton Applied, 2003.08.666; c, Nash Neck Banded, 2003.08.734; d, Karnack Brushed-Incised, 2003.08.770.**



**Figure 68. Titus phase utility ware jars: a, Pease Brushed-Incised, 2003.08.703; b, Pease Brushed-Incised, 2003.08.1069; c, Pease Brushed-Incised, 2003.08.1164; d, Harleton Applied, 2003.08.804.**



a



b



c



d

**Figure 69. Titus phase utility ware jars: a, Harleton Applied, 2003.08.805; b, Incised-punctated, 2003.08.843 (rim and body sherd); c, Harleton Applied, 2003.08.926; d, Harleton Applied, 2003.08.941 (rim sherd).**



**Figure 70. Titus phase utility ware jars: a, Harleton Applied, 2003.08.944; b, McKinney Plain, 2003.08.1006; c, Harleton Applied, 2003.08.1010 (rim and body sherds); d, Harleton Applied, 2003.08.1067.**





**Figure 71. Titus phase utility ware jars: a, LaRue Neck Banded, 2003.08.1136; b, Harleton Applied, 2003.08.1817.**

Four of the jars (8.9%) in the Titus phase vessel series are likely of non-local manufacture: shell-tempered Karnack Brushed-Incised (see Figure 67d), Emory Punctated-Incised (see Figure 64c), and Nash Neck Banded (see Figure 67c), and a Belcher Ridged jar (see Figure 65c). The Belcher Ridged and Karnack Brushed-Incised jars probably originated among Belcher phase Caddo peoples that lived on the Red River in southwest Arkansas and northwest Louisiana (see Webb 1959; Schambach and Miller 1984; Kelley 2012), while the shell-tempered Emory Punctated-Incised and Nash Neck Banded jars are vessels likely to have been made by McCurtain phase Caddo peoples living in the mid-Red River basin.

Three utility ware jars in the Titus phase vessel series, all Harleton Applied vessels, have strap handles, and three other Harleton Applied jars have applied lug handles; the one Maydelle Incised jar in this assemblage has lug handles (see Table 4). Jars with four rim peaks are relatively common in these utility wares (20%), including 46% of the Harleton Applied jars, 18% of the Pease Brushed-Incised jars, and 17% of the jars not identified to type. Another untyped utility ware jar has a scalloped lip.

### Unknown Fine Wares

These fine wares, as well as utility wares and plain wares to be described in following sections of the report, are from unknown sites investigated by Buddy Jones in various parts of East Texas (see Figure 1). None of these vessels (n=163)—including 42 fine wares, 74 utility wares, and 47 plain wares—have been identified to a defined East Texas type or variety. Both the engraved fine wares and utility wares have decorative elements that are commonly seen in Titus phase fine wares in the Big Cypress Creek and mid-Sabine River basin, but the unknown fine wares stand in contrast to the latter because they are stylistically distinct and heterogeneous by comparison, with different formatted combinations and patterns of elements.

The fine ware vessels of unidentified type include nine bottles (21%), 12 bowls (29%), 12 carinated bowls (29%), seven compound bowls (17%), and two jars (5%) (Table 5). By way of comparison, the fine wares in the Titus phase vessel series are dominated by carinated bowls (54%), and bowls only comprise 3% of that assemblage (see Table 3). The relative proportion of bottles, compound bowls, and jars is comparable in both the Titus phase and Unknown fine wares vessel series.

**Table 5. Catalog of Unknown Site Fine Ware Vessels.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
<b>Bottle</b>					
2003.08.29	14.8	4.2	0.48	UID	Body: hatched and cross-hatched brackets, large semi-circles, small open circles, and smaller concentric circles with hatched rays
2003.08.43**	10.4	4.1	0.23	UID	Body: concentric circles and triangles, with small pendant open triangles
2003.08.205**/**	11.5	3.8	0.26	UID	Body: panels with concentric circles, curvilinear lines, and vertical lines with tick marks
2003.08.289	24.1	5.7	0.79	UID	Body: concentric circles and nested ovals and excised zones
2003.08.437***	21.8	5.9	0.84	UID	Body: horizontal engraved lines and six semi-circles with small rectangles and excised dots within
2003.08.573	11.7+	3.5	0.26+	UID	Body: rectangular engraved panels

**Table 5. Catalog of Unknown Site Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.695***	13.3	4.4	0.35	UID	Body: concentric semi-circles and oval or rectangular elements with central inner circles; red pigment
2003.08.999	N/A	N/A	N/A	UID	Body: large open pendant triangles and vertical lines
2003.08.1765	9.9	3.0	0.17	UID	Single horizontal engraved line at the base of the neck
<b>Bowl</b>					
2003.08.50	2.6	8.1	0.08	UID	Engraved nested triangles along the rim
2003.08.318	2.5	10.2	0.10	UID	Horizontal scroll, semi-circles, open triangles and circles, hooked arm, and arcing lines
2003.08.351	5.6	8.4	0.19	UID	Two horizontal engraved lines on the rim
2003.08.366	8.3	16.2	0.54	UID	Semi-circles, diagonal zones, hatched diagonal zones, open triangles, and lines with tick marks
2003.08.660	6.4	12.7	0.32	UID	Panels with circles, smaller central circles, and hatched and cross-hatched brackets
2003.08.829	N/A	12.0	N/A	UID	Alternating concentric semi-circles, hatched dividers, and negative ovals
2003.08.889	4.8	7.6	0.15	UID	Hatched columns above rectangles with excised squares
2003.08.976*	2.2	8.3	0.07	UID	Engraved concentric semi-circles; white pigment
2003.08.1007	4.3	12.5	0.22	UID	Semi-circular narrow zones filled with cross-hatching and open triangles

**Table 5. Catalog of Unknown Site Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.1161++	6.9	15.7	0.43	UID	Hatched triangles and negative ovals; open triangles and ovals with inner circle element
2003.08.1781	4.3	4.3	0.08	UID	Lip notched only
2003.08.1949	N/A	N/A	N/A	UID	Continuous scroll with small central circles (and interior dot), and punctate-filled scroll fill zones
<b>Carinated Bowl</b>					
2003.08.13	10.6	25.9	1.6	UID	Rim: diagonal hatched panels, horizontal engraved panels, and excised punctated bands
2003.08.516****	4.8	15.1	0.44	UID	Curvilinear hatched zones alternating with hatched triangles
2003.08.612	6.7	16.8	0.68	UID	Alternating concentric semi-circles; red pigment
2003.08.674	7.4	13.2	0.60	UID	Interior and exterior red-slipped
2003.08.995	5.1	8.4	0.26	UID	Horizontal engraved lines, diagonal lines, hatched ovals, triangles, and columns
2003.08.1017+	13.3	26.6	3.2	UID	Sideways scroll with negative ovals; ticked scroll line
2003.08.1070	14.0	12.7	1.6	UID	Rim: continuous scroll with curvilinear lines in scroll fill zones; body: sets of diagonal opposed lines
2003.08.1128	N/A	23.0	N/A	UID	Horizontal engraved lines and oval-shaped eye elements
2003.08.1129* S-shaped element	4.7	14.0	0.35	UID	Panels with sideways negative and cross-hatched bracket dividers
2003.08.1163	N/A	14.0	N/A	UID	Ovals with excised borders and hatched scroll fill zones

**Table 5. Catalog of Unknown Site Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.1250	7.7	18.6	0.86	UID	Rim: Upper and lower concentric semi-circles; the innermost semi-circle is either hatched or cross-hatched; red pigment
2003.08.1251	3.5	8.0	0.17	UID	Rim: upper and lower engraved semi-circles; hooked arm element within semi-circles; interior and exterior red-slipped
<b>Compound Bowl</b>					
2003.08.42*	4.9	7.6	0.30	UID	Lower rim panel has vertical and diagonal engraved lines
2003.08.1020	8.9	N/A	N/A	UID	Upper rim panel has single horizontal engraved line; lower rim panel: semi-circles with small central circle and rays; white pigment
2003.08.1405	N/A	32.0	N/A	UID	Lower rim panel has sets of engraved rectangles and sets of vertical arcing lines
2003.08.1415	6.5	15.2	0.80	UID	Lower rim panel has open and hatched triangles and hooked arm elements
2003.08.1944*	7.4	14.0	0.83	UID	Upper rim panel: horizontal engraved lines; lower rim panel: upper and lower concentric semi-circles with inner excised circles; bracket dividers with horizontal hatched zones
2003.08.1946a	N/A	12.0	N/A	UID	Lower rim panel has diagonal lines, ticked circles, and ovals

**Table 5. Catalog of Unknown Site Fine Ware Vessels, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.1950*	N/A	16.0	N/A	UID	Lower rim panel has semi-circles, hatched curvilinear zones, and engraved rectangles; within the rectangle is a central circle with rays and hatched columns
<b>Jar</b>					
2003.08.455****/*****6.6		14.0	0.72	UID	applied nodes and narrow curvilinear and hatched zones, and hatched brackets; strap handles have engraved circle with rays
2003.08.543	8.9	11.5	0.62	UID	Body: concentric semi-circles and open circles alternating with triangles with negative ovals

\*scalloped lip; \*\*collared; \*\*\*carinated body; \*\*\*\*rim peaks; \*\*\*\*\*strap handles; +sprocket rim; ++Redwine mode rim; UID=unidentified

This series of small to medium-sized (0.17-0.84 liters in volume) engraved bottles feature concentric circles, as well as semi-circle and oval elements and rectangular panels and elements (Figures 72-74). Two of the engraved bottles have collared necks and three have carinated bodies (see Table 6); 11% have a red clay pigment rubbed in the engraved lines.

The engraved bowls are small in size (0.08-0.54 liters in volume). Engraved decorations are diverse, with common elements including semi-circles, open triangles, hatched and nested triangles, diagonal and hatched zones and columns, circles, excised rectangles, and negative ovals (Figures 75-77). One bowl has a scalloped lip and a second has a distinctive Redwine mode lip (Figure 77a). Another bowl is decorated only with notches on its lip (Figure 77b). One bowl has engraved scrolls and circles and scroll fill zones filled with excised punctations (see Table 5).

The engraved elements on the rim panel of the carinated bowls include hatched panels, hatched scroll fill zones, hatched triangles and ovals, triangles and columns, along with semi-circles and continuous scrolls. Other vessels have scrolls with negative ovals and ticked scroll lines (Figures 78-80). One of the carinated bowls in this vessel series has an oval-shaped engraved eye element (Figure 79d), similar to an engraved eye-element on a Ripley Engraved carinated bowl in the Titus phase vessel series (see Figure 33d) and a carinated bowl from the Kinsloe phase Millsey Williamson site (41RK3) (see Perttula and Nelson 2014b).

Among the fine ware carinated bowls is one decorated only with red slipping on both interior and exterior surfaces (see Figure 78d). Two others have a red pigment rubbed in the engraved lines (16.7%), and a third engraved carinated bowl is also red-slipped. In addition, one carinated bowl has a scalloped lip, one has rim peaks, and another has a distinctive sprocket rim (see Figure 79b). One interesting carinated



Figure 72. Engraved bottles: a, 2003.08.29; b, 2003.08.43; c, 2003.08.205; d, 2003.08.289.

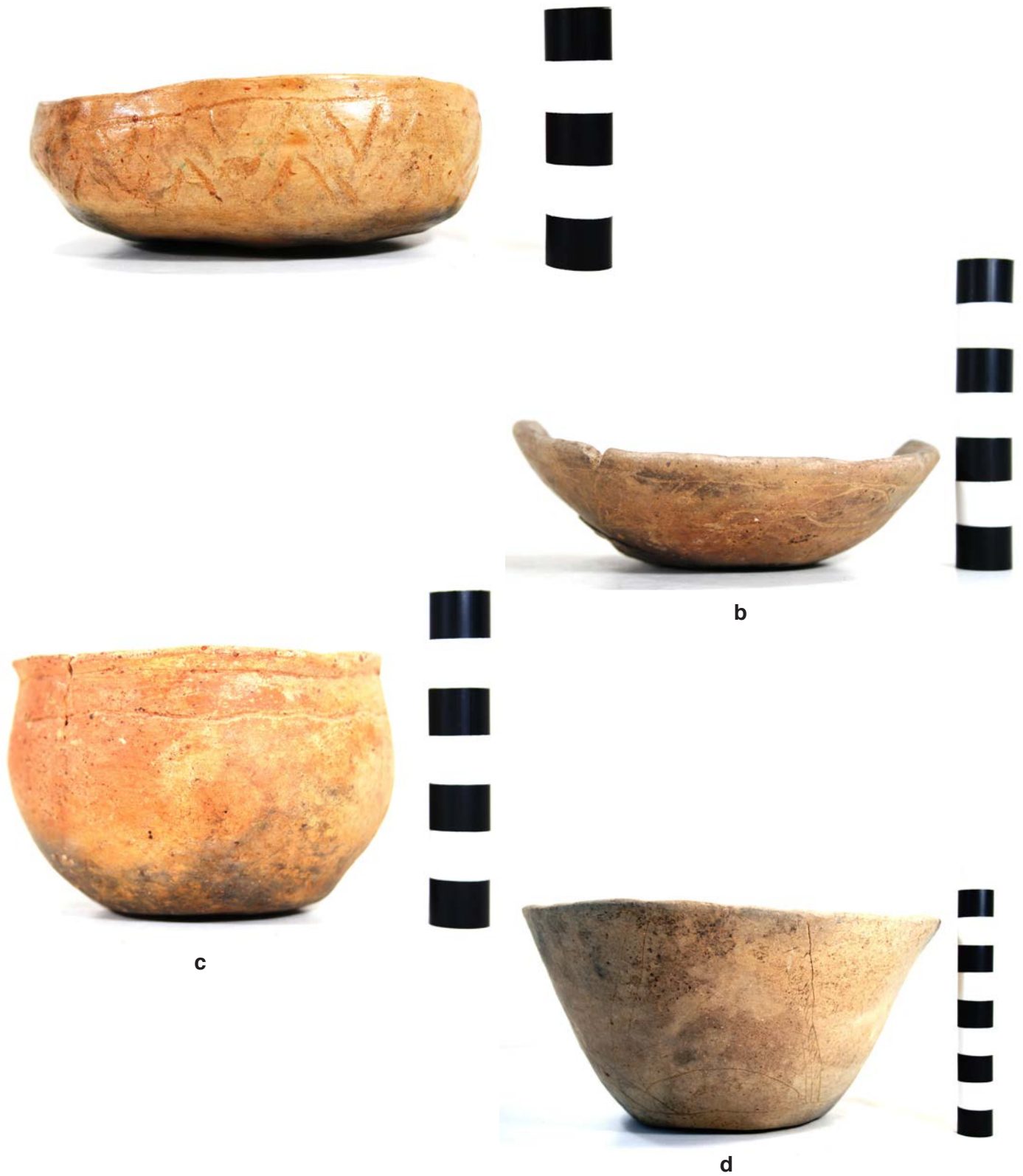


**Figure 73. Engraved bottles: a, 2003.08.437; b, 2003.08.573; c, 2003.08.695; d, 2003.08.829.**





**Figure 74. Engraved bottle (2003.08.1765).**



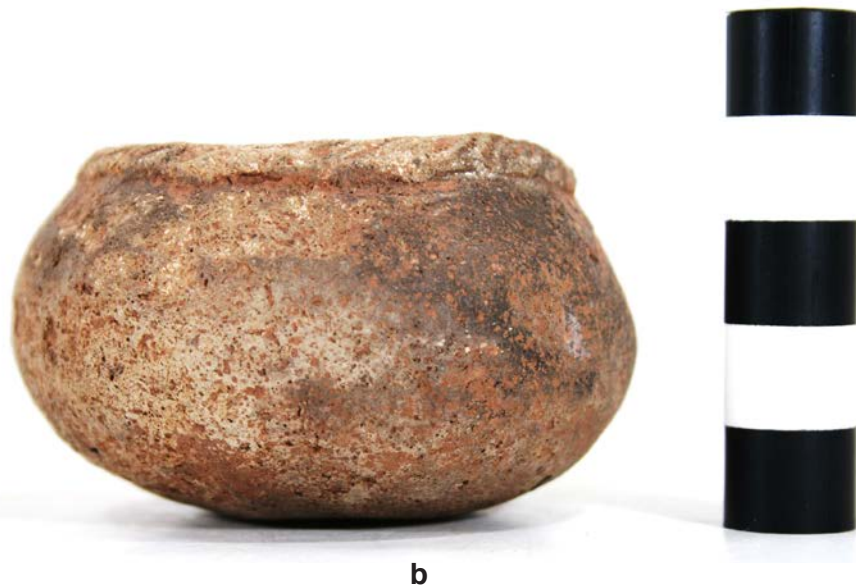
**Figure 75. Engraved bowls: a, 2003.08.50; b, 2003.08.318; c, 2003.08.351; d, 2003.08.366.**



**Figure 76. Engraved bowls: a, 2003.08.660; b, 2003.08.889; c, 2003.08.976; d, 2003.08.1007.**



a



b

**Figure 77. Engraved bowls: a, 2003.08.1161; b, 2003.08.1781.**

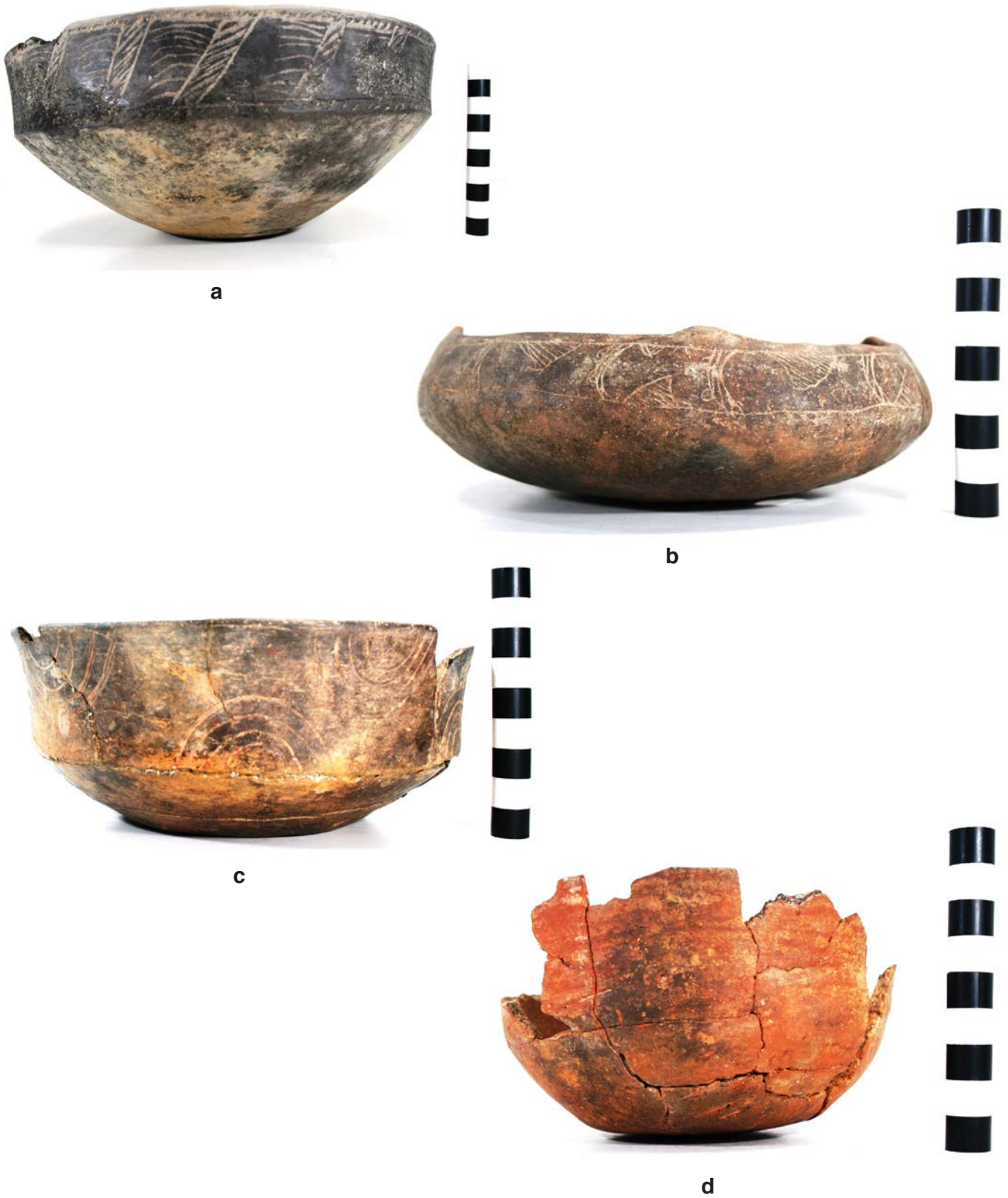


Figure 78. Engraved or red-slipped carinated bowls: a, 2003.08.13; b, 2003.08.516; c, 2003.08.612; d, 2003.08.674 (red-slipped).



**Figure 79. Engraved carinated bowls: a, 2003.08.995; b, 2003.08.1017; c, 2003.08.1070; d, 2003.08.1128 (rim sherd).**



**Figure 80. Engraved carinated bowls: a, 2003.08.1129; b, 2003.08.1250; c, 2003.08.1949.**

bowl not only has an engraved motif on its rim panel, it has diagonal opposed engraved lines on the vessel body (see Figure 79c), while another has engraved scrolls and circles and punctatede-filled scroll fill zones (see Figure 80c).

These compound bowls are generally small in size and volume (Figure 81a-c); three of them have scalloped lips, and one has a white clay pigment rubbed in the engraved lines. If present, upper rim panels on the engraved compound bowls have widely-spaced horizontal engraved lines, and the lower rim panels have more complicated engraved elements and motifs. These feature semi-circles, circles, and ovals, engraved rectangles, hatched triangles, columns, and zones, and hooked arms; several elements have small inner circles with excised rays (Figure 81a-c).

The two small engraved jars in the collection are illustrated in Figure 82a-b. One of the jars has rim peaks and decorated strap handles (circle with rays). The engraved rim elements have curvilinear and hatched zones, semi-circles, circles, triangles, and negative ovals. One of the jars has appliqued nodes on the rim (Figure 82a).





Figure 81. Engraved compound bowls: a, 2003.08.42; b, 2003.08.1944; c, 2003.08.1950 (rim sherds).



a



b

**Figure 82. Engraved jars: a, 2003.08.455; b, 2003.08.543.**

### Unknown Utility Wares

The unknown and typologically unidentified utility ware vessels (n=74) include jars, as well as bowls, carinated bowls, compound bowls, and bottles (Table 6). Jars comprise 86% of this series (n=64), followed by bowls (8.1%, n=6), carinated bowls (2.7%, n=2), compound bowls (1.3%, n=1), and bottles (n=1, 1.3%). These vessels range from very small (miniatures) to very large (i.e., 23.5 liters in volume, Figure 83b). One utility ware bowl has a collared rim, and two jars have either a scalloped lip or rim tabs. Almost 8% of the jars are quadrated by rim peaks, and another jar has both rim peaks and strap handles.

**Table 6. Catalog of Unknown Site Utility Ware Jars and other Vessel Forms.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.9	8.3	9.1	0.45	UID	Rim: horizontal brushed; body: vertical applied fillets and panels filled with diagonal tool punctated rows
2003.08.32	46.3	38.7	23.5	UID	Rim: horizontal brushed and two rows of tool punctates; body: vertical brushed
2003.08.40*	3.8	6.6	0.15	UID	Rim: tool punctated row under lip, diagonal incised lines; body: diagonal opposed incised lines
2003.08.73	5.7	8.3	0.28	UID	Rim: three rows of linear tool punctates; body: vertical applied fillets, vertical incised lines, and vertical incised panels with tool punctates
2003.08.89	15.8	16.7	1.6	UID	Rim: horizontal brushed and tool punctated row at rim-body juncture; body: vertical brushed-incised and applied nodes
2003.08.202	12.1	11.5	0.84	UID	Rim: horizontal brushed-incised and tool punctated row at rim-body juncture; vertical applied fillets and diagonal opposed incised panels

**Table 6. Catalog of Unknown Site Utility Ware Jars and other Vessel Forms, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.204**	7.6	9.1	0.41	UID	Rim: diagonal brushed-incised and horizontal incised line; body: vertical pinched rows
2003.08.322	17.8	14.2	2.3	UID	Rim: three rows of tool punctates
2003.08.376+	11.3	14.8	0.67	UID	Punctated rows and diagonal tool punctated panels
2003.08.413	12.7	11.2	0.85	UID	Rim: diagonal incised, concentric semi-circular incised, and open triangle incised elements
2003.08.424	18.4	15.3	2.5	UID	Rim: horizontal incised and tool punctated rows; body: vertical, diagonal, and diagonal opposed incised lines
2003.08.463	12.1	11.2	0.81	UID	Rim: four tool punctated rows; body: incised panels filled with diagonal or diagonal opposed incised lines and triangle-filled punctates
2003.08.482***	8.2	9.2	0.45	UID	Rim: tool punctated row; body: vertical brushed and appliqued nodes
2003.08.489++	5.9	10.6	0.37	UID	Rim: horizontal brushed; body: diagonal brushed
2003.08.506	14.0	14.6	1.2	UID	Rim: four tool punctated rows; body: four panels filled with diagonal opposed incised triangle elements
2003.08.517	8.3	9.6	0.48	UID	Rim: horizontal incised; body: vertical incised lines
2003.08.530+	4.3	10.2	0.18	UID	Horizontal brushed on upper part of vessel

**Table 6. Catalog of Unknown Site Utility Ware Jars and other Vessel Forms, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.541	10.8	13.3	0.87	UID	Rim: three tool punctated rows and a fourth at rim-body juncture; body: vertical pinched rows
2003.08.548+	3.1	11.5	0.14	UID	Horizontal and diagonal tool punctated rows
2003.08.595	19.5	19.0	3.4	UID	Rim: Incised slanted scroll and cross-hatched upper and lower triangles; body: vertical brushed
2003.08.604	10.8	10.2	0.66	UID	Rim: three rows of tool punctates; body: diagonal tool punctated rows
2003.08.608	12.1	12.5	0.91	UID	Rim: three rows of tool punctates; body: vertical brushed
2003.08.633	N/A	N/A	N/A	UID	Rim: horizontal brushed and one tool punctated row; body: vertical applied fillets and vertical brushed panels
2003.08.636	23.0	18.5	3.8	UID	Rim: horizontal brushed and two tool punctated rows; body: vertical brushed
2003.08.643	N/A	N/A	N/A	UID	Vertical brushed body
2003.08.644+++	31.0	31.0	7.7	UID	Rim: horizontal brushed and tool punctated row through brushing; body: vertical brushed
2003.08.649++	17.1	24.6	3.8	UID	Horizontal line at carination
2003.08.657	11.5	11.5	0.77	UID	Rim: four tool punctated rows; body: vertical brushed
2003.08.663+	9.5	15.9	0.60	UID	Random tool punctates over the vessel

**Table 6. Catalog of Unknown Site Utility Ware Jars and other Vessel Forms, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.673	17.8	20.2	3.1	UID	Rim: two tool punctated rows; body: vertical incised lines
2003.08.682+	3.4	6.5	0.09	UID	Single horizontal incised line at mid-body
2003.08.686	9.4	13.6	0.77	UID	Rim: diagonal opposed incised lines
2003.08.688	15.2	13.7	1.3	UID	Rim: horizontal incised lines; body: vertical incised lines and vertical pinched rows
2003.08.700	N/A	N/A	N/A	UID	Diagonal and vertical punctated rows on rim and body and diagonal incised lines on body
2003.08.740	11.4	13.3	0.91	UID	Rim: horizontal brushed; body: horizontal to diagonal brushed
2003.08.744*	8.9	10.2	0.55	UID	Rim: horizontal brushed, three tool punctated rows, and vertical applied fillets; body: applied fillets and vertical brushed panels
2003.08.778	20.5	16.4	3.0	UID	Rim: diagonal opposed incised-filled incised triangles; body: vertical incised lines
2003.08.793	27.7	21.2	7.6	UID	Rim: horizontal incised lines; body: vertical incised lines
2003.08.798	31.7	29.4	12.1	UID	Rim: horizontal brushed and two rows of tool punctates
2003.08.800	34.2	26.1	11.6	UID	Rim: horizontal brushed and one row of tool punctates; body: vertical brushed

**Table 6. Catalog of Unknown Site Utility Ware Jars and other Vessel Forms, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.806	10.2	8.9	0.55	UID	Rim: seven tool punctated rows; body: six vertical applied fillets
2003.08.808	15.2	12.7	1.2	UID	Rim: horizontal brushed-incised and linear tool punctated row; body: vertical incised lines
2003.08.877	15.2	14.6	1.3	UID	Rim: horizontal brushed-incised and tool punctated row; body: diagonal incised lines
2003.08.887 <sup>^</sup>	11.1	7.4	0.29	UID	Horizontal incised lines at base of neck
2003.08.917+****	6.4	10.2	0.26	UID	Rim: horizontal brushed and tool punctated row; body: vertical applied fillets and vertical brushed-tool punctate filled panels
2003.08.930	N/A	N/A	N/A	UID	vertical brushed body
2003.08.947*	12.7	11.5	0.88	UID	Rim: horizontal brushed and two tool punctated rows; body: cross-hatched incised and horizontal incised line
2003.08.973	5.1	6.4	0.13	UID	Rim: one tool punctated row; body: vertical tool punctated rows
2003.08.974	8.2	10.0	0.49	UID	Incised rectangles on the vessel body; shell-tempered
2003.08.981	13.4	13.9	1.1	UID	Opposed sets of horizontal and vertical incised lines; shell-tempered

**Table 6. Catalog of Unknown Site Utility Ware Jars and other Vessel Forms, cont.**

Vessel No .	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.982	10.9	11.1	0.73	UID	Rim: two tool punctated rows; body: one tool punctated row and vertical brushed
2003.08.1008*****	13.9	13.7	1.1	UID	Rim: vertical and curvilinear tool punctated rows; opposed diagonal incised lines under rim tabs
2003.08.1012	N/A	13.0	N/A	UID	Rim: three tool punctated rows; body: vertical brushed
2003.08.1028	42.5	36.0	20.0	UID	Rim: seven tool punctated rows; body: horizontal, diagonal, and vertical brushed
2003.08.1052	28.6	30.0	11.1	UID	Rim: seven tool punctated rows; body: vertical brushed
2003.08.1061	N/A	20.0	N/A	UID	Rim: horizontal brushed; body: vertical brushed
2003.08.1065	N/A	23.0	N/A	UID	Rim: diagonal incised-filled incised triangles; diagonal pinched rows in triangles
2003.08.1068	N/A	26.0	N/A	UID	Rim: horizontal and cross-hatched incised lines; body: one tool punctated row and diagonal rows of linear tool punctates
2003.08.1071	21.5	18.4	3.5	UID	Rim: incised concentric semi-circles and tool punctates fill the space between the semi-circles
2003.08.1135	13.8	16.0	1.3	UID	Rim: vertical incised lines and tool punctated row; body: vertical brushed
2003.08.1160	N/A	19.0	N/A	UID	Rim: four tool punctated rows over diagonal incised lines



**Table 6. Catalog of Unknown Site Utility Ware Jars and other Vessel Forms, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.1166	N/A	15.0	N/A	UID	Rim: horizontal incised and two tool punctated rows; body: vertical incised lines and vertical pinched rows
2003.08.1249	14.2	14.0	1.2	UID	Rim: three tool punctated rows; body: vertical brushed
2003.08.1356	N/A	14.0	N/A	UID	Rim: horizontal brushed-incised and one tool punctated row; body: diagonal brushed
2003.08.1404*	N/A	17.0	N/A	UID	Rim: horizontal brushed and one tool punctated row; body: vertical applied fillets and overlapping brushed panels
2003.08.1414	10.0	9.0	0.54	UID	Rim: horizontal brushed; body: concentric pinched circles
2003.08.1418	12.1	8.2	0.60	UID	Rim: three tool punctated rows; body: vertical brushed
2003.08.1742	11.4	9.5	0.65	UID	Rim: diagonal incised lines; body: vertical brushed
2003.08.1789	15.7	15.4	1.5	UID	Rim: horizontal brushed and two tool punctated rows; body: vertical applied fillets and overlapping brushed panels
2003.08.1804	30.5	31.3	12.1	UID	Rim: two tool punctated rows at top and bottom of rim and eight vertical tool punctated rows
2003.08.1813*	8.2	8.9	0.44	UID	Rim: tool punctated panels; body: vertical and semi-circular pinched elements

**Table 6. Catalog of Unknown Site Utility Ware Jars and other Vessel Forms, cont.**

Vessel No.	Ht. (cm)	OD (cm)	Volume (liters)	Type	Decoration
2003.08.1816	10.8	10.4	0.67	UID	Vertical incised lines on the rim and body
2003.08.1946	20.0	15.2	2.7	UID	Rim: cross-hatched and diagonal opposed incised lines; body: diagonal brushed
2003.08.1951	N/A	10.0	N/A	UID	Six rows of linear tool punctates

UID=unidentified

\*rim peaks; \*\*scalloped lip; \*\*\*rim peaks and strap handles; \*\*\*\*collared rim; \*\*\*\*\*rim tabs; +bowl; ++carinated bowl; +++compound bowl; ^ bottle

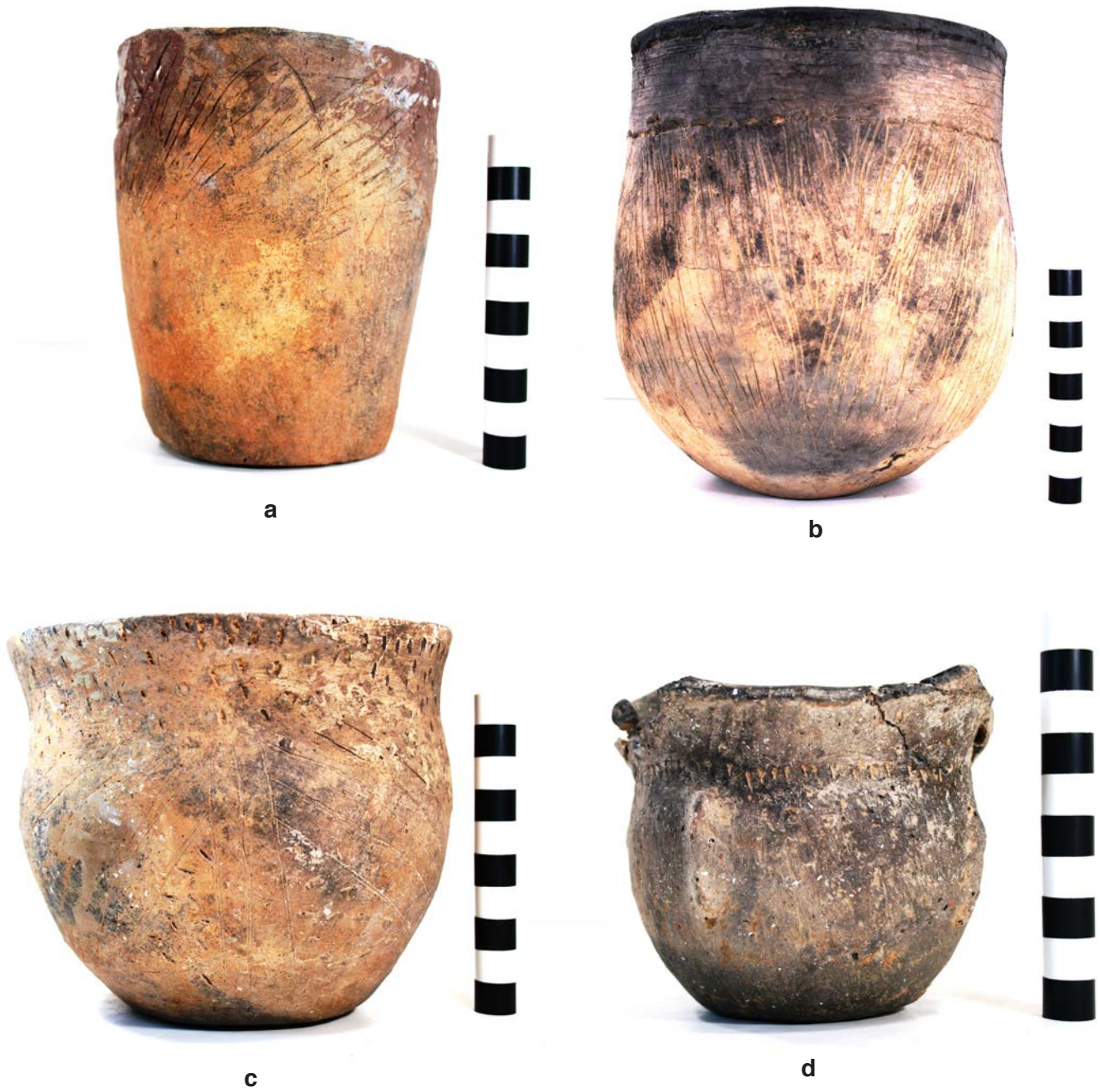
The utility wares of unidentified types in this vessel assemblage have a diverse range of decorative elements and methods on the rim and body, although rarely are they decorated the same on both the rim and the vessel body (see Table 6). This includes brushed, brushed-incised, brushed-incised-punctated, brushed-punctated, brushed-punctated-appliqued, incised, incised-punctated, and punctated elements on the rim, and an even larger range of decorative elements on the vessel bodies: appliqued, appliqued-incised, appliqued-incised-punctated, appliqued-punctated, brushed, brushed-appliqued, brushed-appliqued-punctated, brushed-incised-appliqued, brushed-punctated, incised, incised-pinched, incised-punctated, pinched, and punctated (Figures 83-101). Only three of the utility ware vessels (4.1%) have plain rims, while 10.8% have plain bodies.



**Figure 83. Utility ware jars: a, brushed-appliqued-punctated, 2003.08.9; b, brushed-punctated, 2003.08.32; c, incised-punctated, 2003.08.40; d, incised-appliqued-punctated, 2003.08.73.**



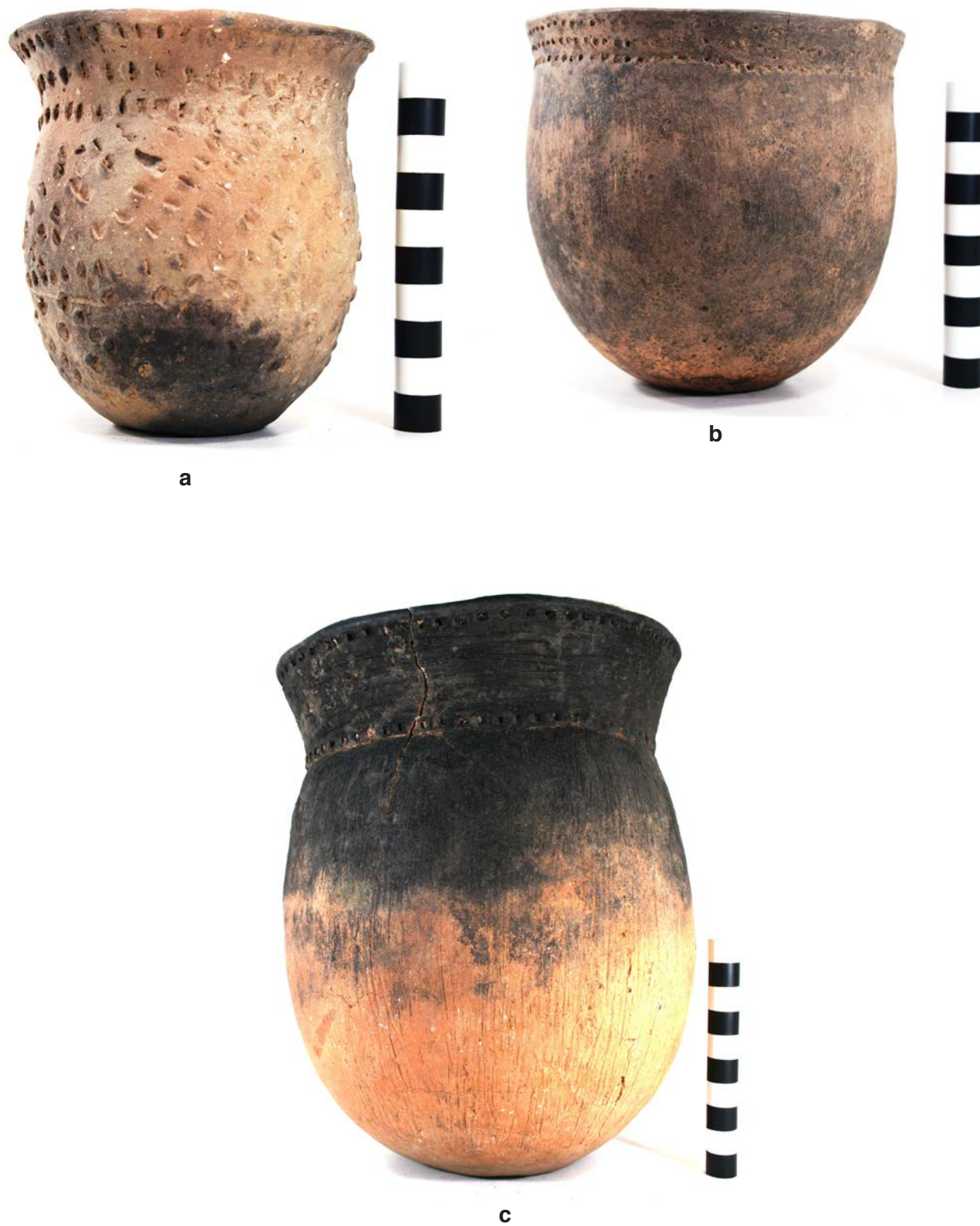
**Figure 84. Utility ware jars: a, brushed-incised-punctated-appliqued, 2003.08.89; b, brushed-incised-punctated-appliqued, 2003.08.202; c, rim punctated, 2003.08.322.**



**Figure 85. Utility ware jars: a, incised, 2003.08.413; b, incised-punctated, 2003.08.424; c, incised-punctated, 2003.08.463; d, punctated-brushed-applied, 2003.08.482.**



**Figure 86. Utility ware jars: a, incised-punctated, 2003.08.506; b, incised, 2003.08.517; c, punctated-pinched, 2003.08.541; d, incised-brushed, 2003.08.595.**



**Figure 87. Utility ware jars: a, punctated, 2003.08.604; b, punctated-brushed, 2003.08.608; c, brushed-punctated, 2003.08.636.**



**Figure 88. Utility ware jars: a, brushed-punctated, 2003.08.657; b, punctated-incised, 2003.08.673; c, incised, 2003.08.686; d, incised-pinched, 2003.08.688.**



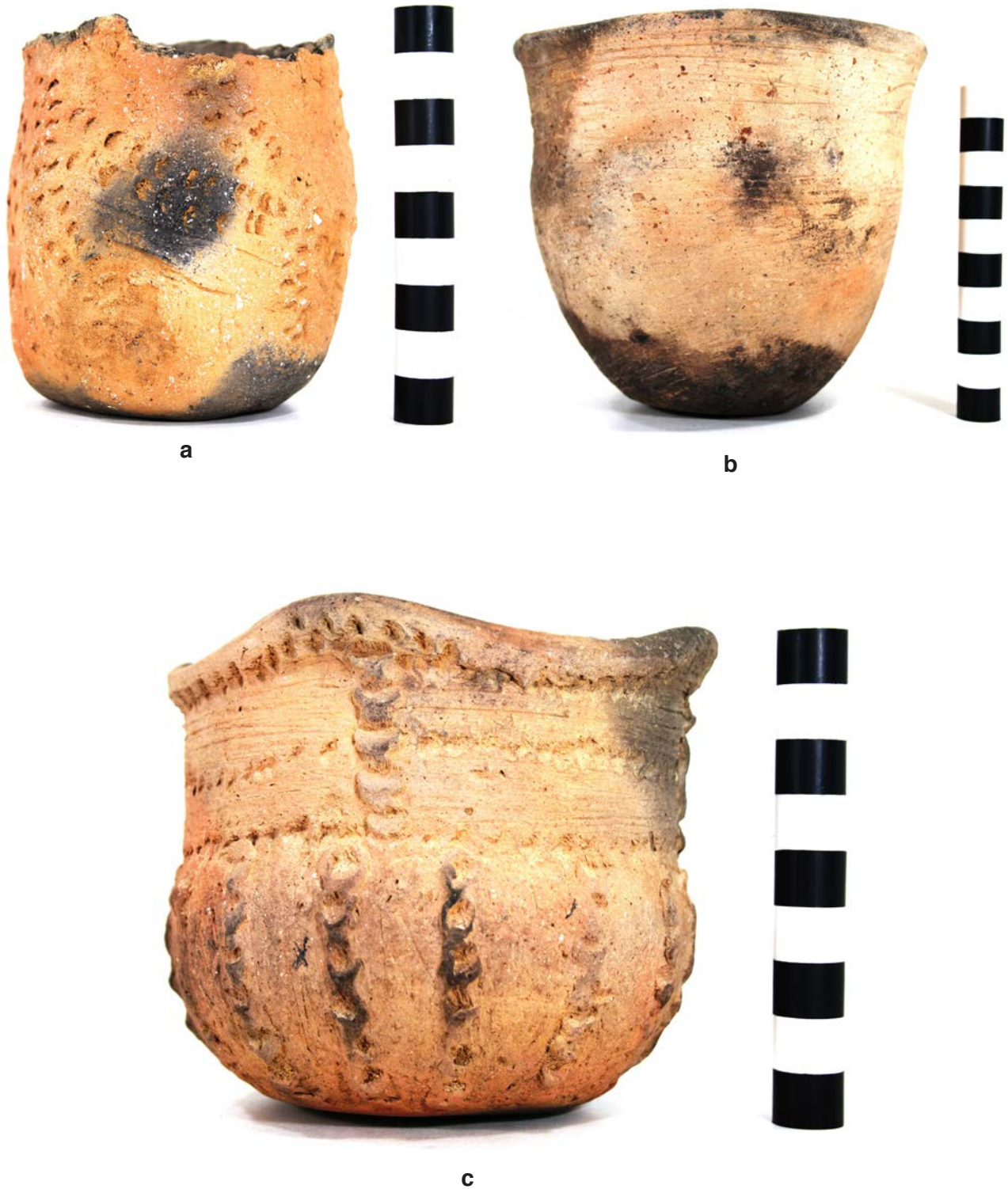


Figure 89. Utility ware jars: a, punctated-incised, 2003.08.700; b, brushed, 2003.08.740; c, brushed-punctated-appliqued, 2003.08.744.



**Figure 90. Utility ware jars: a, incised, 2003.08.778; b, incised, 2003.08.793; c, brushed-punctated, 2003.08.798; d, brushed-punctated, 2003.08.800.**



**Figure 91. Utility ware jars: a, punctated-appliqued, 2003.08.806; b, brushed-incised-punctated, 2003.08.808; c, brushed-incised-punctated, 2003.08.877; d, brushed-punctated-incised, 2003.08.947.**



**Figure 92. Utility ware jars: a, punctated, 2003.08.973; b, incised, 2003.08.974; c, incised, 2003.08.981.**



**Figure 93.** Utility ware jars: a, incised-punctated, 2003.08.1008; b, brushed-punctated, 2003.08.1028; c, incised-pinched, 2003.08.1065.



**Figure 94. Utility ware jars: a, incised-punctated, 2003.08.1071; b, incised-punctated-brushed, 2003.08.1135 (rim sherd); c, incised-punctated, 2003.08.1160.**



**Figure 95. Utility ware jars: a, incised-punctated-pinched, 2003.08.1166; b, brushed-punctated-applied, 2003.08.1404 (rim and body sherds); c, brushed-pinched, 2003.08.1414; d, brushed-punctated, 2003.08.1418.**



**a**



**b**



**c**

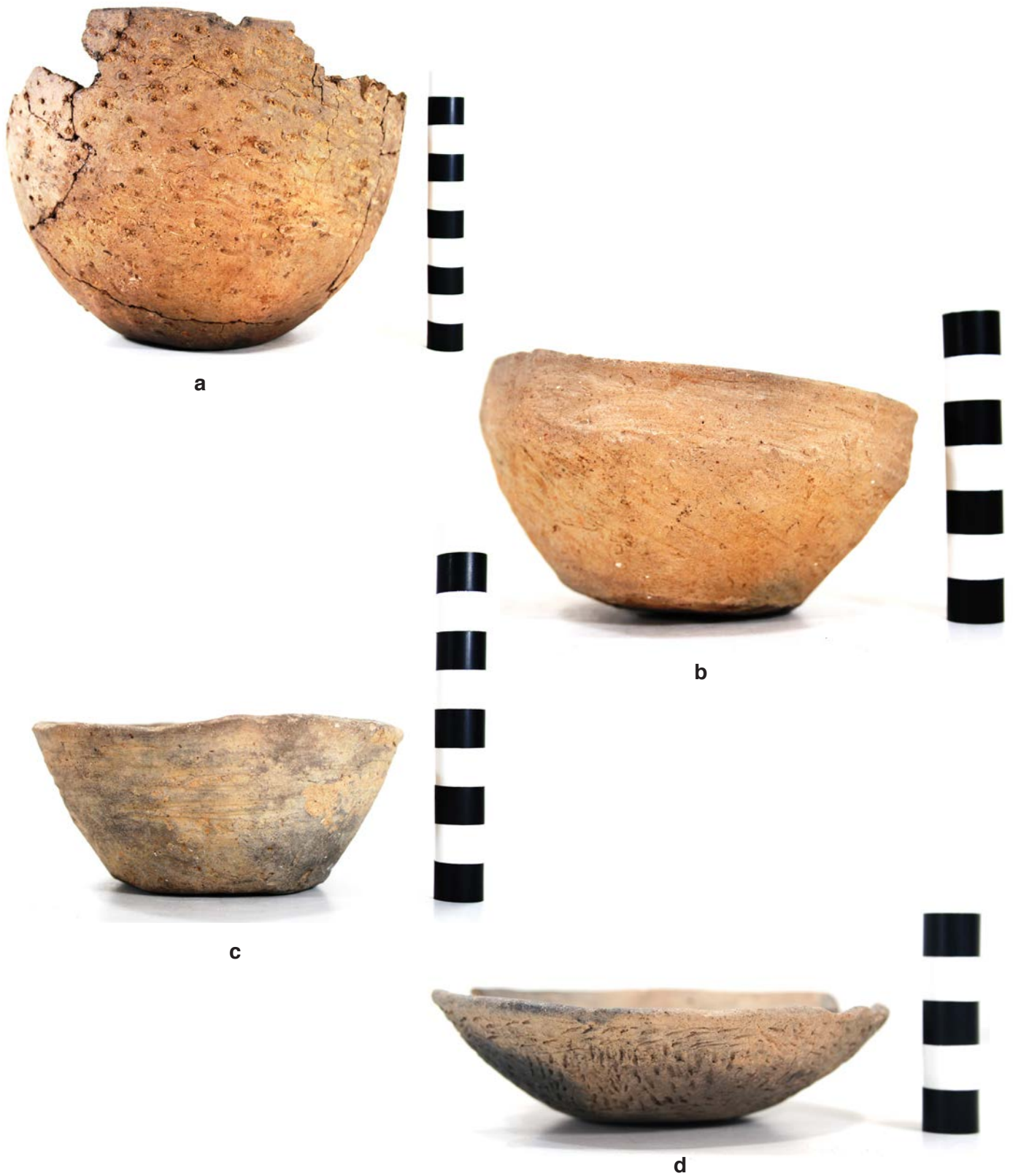


**Figure 96. Utility ware jars: a, incised-brushed, 2003.08.1742; b, punctated-brushed-appliqued, 2003.08.1789; c, punctated, 2003.08.1804.**

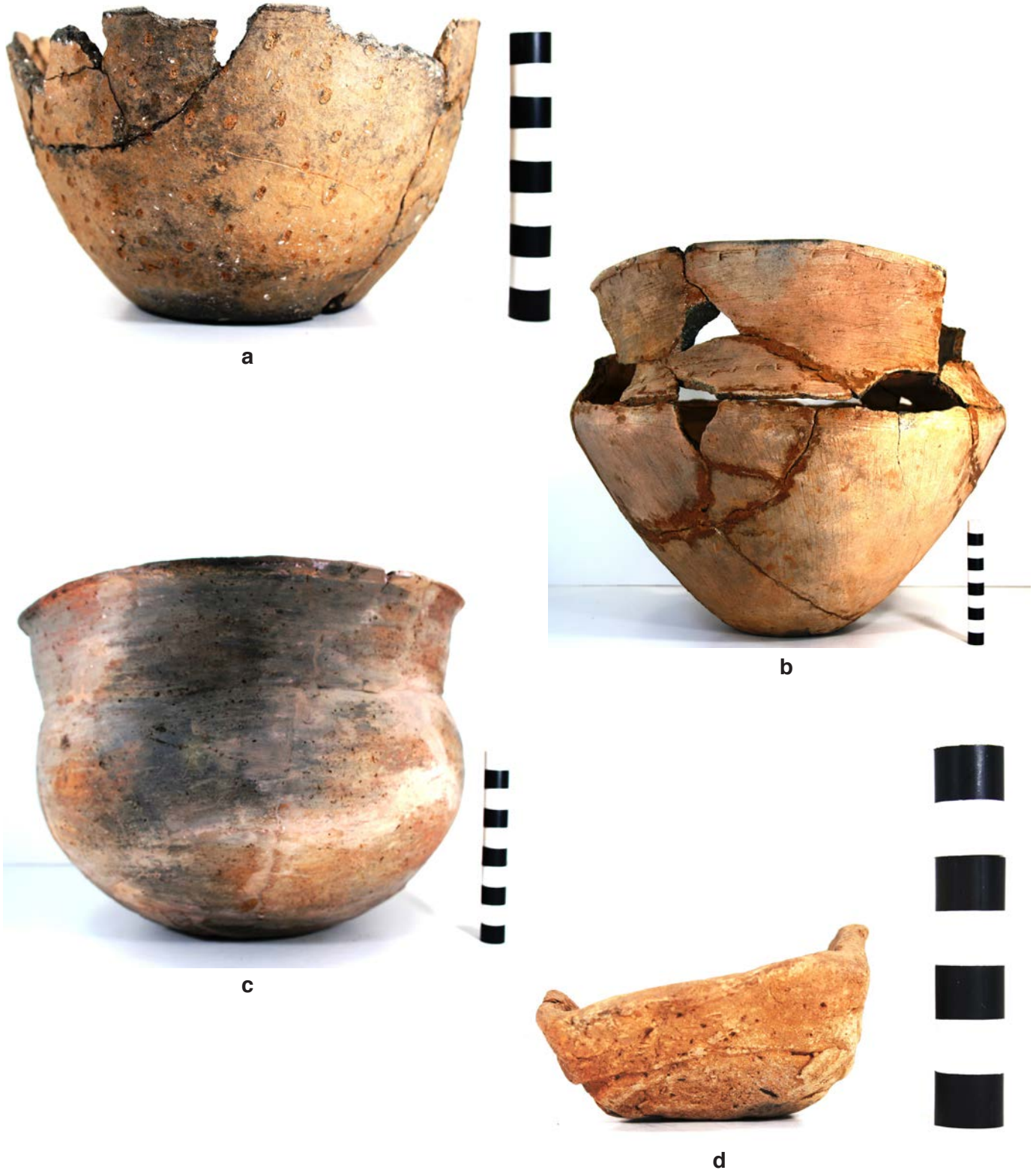




**Figure 97.** Utility ware jars: a, punctated-pinched, 2003.08.1813; b, incised, 2003.08.1816; c, incised-brushed, 2003.08.1946; d, punctated, 2003.08.1951 (rim sherd).



**Figure 98. Utility ware bowls and carinated bowls: a, punctated, 2003.08.376; b, brushed, 2003.08.489; c, brushed, 2003.08.530; d, punctated, 2003.08.548.**



**Figure 99.** Utility ware bowls, carinated bowls, and compound bowls: a, punctated, 2003.08.663; b, 2003.08.644, brushed-punctated; c, incised, 2003.08.649; d, incised, 2003.08.682.



**Figure 100. Utility ware bowl: brushed-punctated-appliqued, 2003.08.917.**

The most common decorative elements on the rim of these utility wares include tool punctated rows and/or panels (35.1% of the vessels), incised lines (18.9%), and brushed marks and tool punctations (14.9%), followed by incised-punctated (8.1%), brushed (6.8%), brushed-incised-punctated (5.4%), brushed-incised (1.4%), and brushed-punctated-appliqued (1.4%) (see Table 6). Approximately 30% of the rims on these utility wares have brushing marks, either as the sole decorative element or in combination with incised, punctated, or appliqued elements.

The most common decorative methods employed in the decoration of the bodies of these utility wares is brushing. Approximately 30% of the vessel bodies are decorated with brushing marks only; another 10.6% of the utility wares have brushed-incised-appliqued, brushed-appliqued, brushed-appliqued-punctated, and brushed-punctated body decorations (see Table 6). Another 20% have incised decorations, 8.1% are decorated on vessel bodies with rows and/or panels of tool punctates, and 6.8% have vertical or concentric rows and circles of pinching decorations; another 2.7% have incised and pinched decorative elements on vessel bodies (see Table 6)



**Figure 101. Utility ware bottle: incised, 2003.08.887.**

The common occurrence of brushed utility wares in this particular vessel collection suggests that many of these vessels are from sites that were occupied by Caddo peoples in East Texas after ca. A.D. 1200. It is only after this time that brushing became a common decorative method on Big Cypress Creek and mid-Sabine River Caddo vessels, and many archaeological studies have shown that the proportion of brushed wares continued to increase in ceramic assemblages through at least the early to mid-18<sup>th</sup> century.

### Unknown Plain Wares

The unknown plain ware vessels (n=47) in this collection include bottles (15%) (Figures 102 and 103), bowls (23%) (Figures 104 and 105), carinated bowls (38%) (Figures 106-109), compound bowls (8.5%) (Figure 110), and jars (15%) (Figures 111 and 112). One of the bowls has an attached turtle effigy head (Figure 105d), and another is square in shape (Figure 104a), resembling the square vessels documented from the Clay Ball site in the upper Neches River basin (see Perttula and Nelson 2014e). One of the plain carinated bowls has a globular shape (Figure 107a), which suggests it may have originated in an upper Neches River basin Caddo site, since this is a common carinated bowl shape in that region.

**Table 7. Catalog of Unknown Site Plain Ware Vessels.**

Vessel No.	Vessel Form	Ht. (cm)	OD (cm)	Volume (liters)	Comments
2003.08.212	Bt	N/A	N/A	N/A	body height, 9.2 cm
2003.08.316	Bt	14.0	5.3	0.30	11.2 cm maximum bod diameter
2003.08.355	Bt	18.7	4.4	0.33	13.7 cm maximum body diameter
2003.08.661	Bt	19.2	5.3	0.49	carinated body; 12.8 cm maximum body diameter
2003.08.1027	Bt	14.8	4.3	0.26	11.6 cm maximum body diameter
2003.08.1243	Bt	14.0	4.2	0.45	12.5 cm maximum body diameter
2003.08.1757	Bt	18.4	4.2	0.50	11.4 cm maximum body diameter
2003.08.189	Bw	4.8	6.4-7.2	0.12-0.14	indented square in shape
2003.08.410	Bw	7.0	15.9	0.44	—
2003.08.509	Bw	8.4	18.1	0.61	—
2003.08.638	Bw	5.7	12.8	0.29	—
2003.08.828	Bw	4.3	13.4	0.23	—
2003.08.987	Bw	3.1	9.4	0.12	four rim peaks
2003.08.1089	Bw	N/A	16.5	N/A	—
2003.08.1400	Bw	N/A	7.6	N/A	—
2003.08.1401	Bw	N/A	N/A	N/A	lower portion of vessel
2003.08.1818	Bw	7.6	13.4	0.41	lip nodes
2003.08.1848	Bw	4.4	10.2	0.18	turtle effigy bowl; tab tail with small excised circle or dot
2003.08.245	CB	10.0	15.2	0.9	—
2003.08.325	CB	8.9	17.1	0.9	—
2003.08.332	CB	7.6	14.0	0.64	—
2003.08.404	CB	7.6	17.8	0.81	—
2003.08.430	CB	8.3	14.4	0.72	globular in shape
2003.08.504	CB	6.6	12.8	0.51	—
2003.08.518	CB	10.3	17.6	1.1	—
2003.08.647	CB	6.9	16.9	0.69	—
2003.08.669	CB	10.8	19.7	1.3	—
2003.08.743	CB	7.0	14.2	0.6	—
2003.08.928	CB	11.5	21.7	1.5	—
2003.08.992	CB	4.2	7.1	0.18	—
2003.08.997	CB	4.2	9.6	0.24	—
2003.08.1073	CB	7.8	14.3	0.67	—

**Table 7. Catalog of Unknown Site Plain Ware Vessels, cont.**

Vessel No.	Vessel Form	Ht. (cm)	OD (cm)	Volume (liters)	Comments
2003.08.1532	CB	4.3	12.0	0.31	—
2003.08.1782	CB	2.5	5.7	0.08	—
2003.08.1943	CB	3.9	9.0	0.21	—
2003.08.1945	CB	N/A	9.0	N/A	—
2003.08.275	CPB	22.9	42.4	9.7	—
2003.08.331	CPB	5.1	10.8	0.44	—
2003.08.510	CPB	5.4	13.7	0.59	—
2003.08.1402	CPB	N/A	9.0	N/A	—
2003.08.668	J	11.3	10.8	0.73	—
2003.08.760	J	12.7	11.2	0.85	—
2003.08.767	J	10.0	10.2	0.61	collared rim
2003.08.830	J	N/A	N/A	N/A	—
2003.08.1019	J	11.5	10.8	0.75	—
2003.08.1021	J	12.5	18.4	1.4	—
2003.08.1399	J	8.7	9.7	0.5	—

Bt=bottle; Bw=bowl; CB=carinated bowl; CPB=compound bowl; J=jar



**Figure 102. Plain bottles: a, 2003.08.212; b, 2003.08.316; c, 2003.08.355; d, 2003.08.1027.**





**Figure 103. Plain bottles: a, 2003.08.1243; b, 2003.08.1757.**



Figure 104. Plain bowls: a, 2003.08.189; b, 2003.08.410; c, 2003.08.509; d, 2003.08.638.



Figure 105. Plain bowls: a, 2003.08.828; b, 2003.08.987; c, 2003.08.1818; d, 2003.08.1848.



**Figure 106. Plain carinated bowls: a, 2003.08.245; b, 2003.08.325; c, 2003.08.332; d, 2003.08.404.**

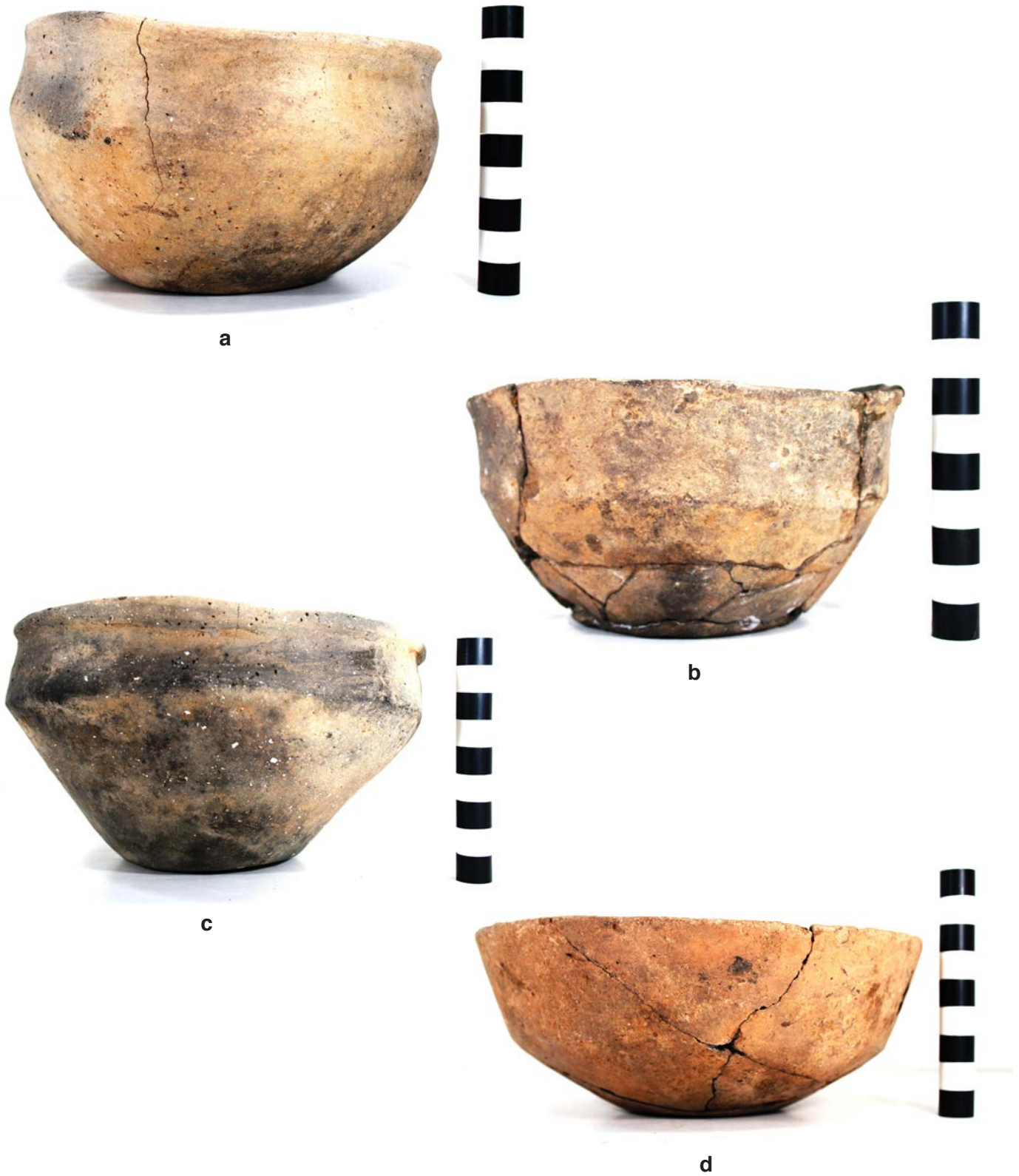


Figure 107. Plain carinated bowls: a, 2003.08.430; b, 2003.08.504; c, 2003.08.518; d, 2003.08.647.



**Figure 108. Plain carinated bowls: a, 2003.08.669; b, 2003.08.743; c, 2003.08.928; d, 2003.08.992.**



**Figure 109.** Plain carinated bowls: a, 2003.08.997; b, 2003.08.1073; c, 2003.08.1782; d, 2003.08.1943.



a



b



c

**Figure 110. Plain compound bowls: a, 2003.08.275; b, 2003.08.331; c, 2003.08.510.**





Figure 111. Plain jars: a, 2003.08.668; b, 2003.08.760; c, 2003.08.767; d, 2003.08.1019.



a



b

**Figure 112. Plain jars: a, 2003.08.1021; b, 2003.08.1399.**

The plain bottles, bowls, carinated bowls, compound bowls, and jars are primarily small in size and volume (see Table 7), suggesting they were made for individual and/or family use in food and liquid servings and cooking. Bottles have a mean volume of 0.39 liters (range from 0.26-0.50 liters); bowls a mean volume of only 0.30 liters (0.12-0.61 liters in range); carinated bowls a mean volume of 0.67 liters (0.08-1.5 liters in range); and jars a mean volume of 0.81 liters (0.61-1.4 liters in range). Two of the three compound bowls have a mean volume of 0.52 liters (0.44-0.59 liters in range), but there is also a very large plain compound bowl with an estimated volume of 9.7 liters (see Table 7).

### **Summary of the Vessels**

In summary, for this study we have documented 420 Caddo ceramic vessels in the Buddy Calvin Jones collection from an unknown number of sites in East Texas; unfortunately, provenience information and accompanying notes on the vessels themselves are currently lacking for this large assemblage. These vessels are from burials in sites that Jones excavated in several parts of East Texas, most notably the upper Neches River basin, the mid-Sabine River basin, and parts of the Big and Little Cypress Creek basins.

Relying on ceramic stylistic evidence and distinctive vessel form characteristics, we have identified five vessels (1.2% of the assemblage) in this assemblage of clear Middle Caddo period (ca. A.D. 1200-1450) stylistic affiliation. The vessels are stylistically similar to Washington Square Paneled vessels from the mid-Sabine River and Angelina River basins, most notably to vessels from Middle Caddo period cemeteries in the Sabine River basin in Gregg County (see Perttula and Nelson 2013a). Another 33 vessels (7.9%), including plain ware, utility ware, and fine wares are Frankston phase and Allen phase vessels that likely come from a site or series of sites in Anderson, Cherokee, or Smith counties (see Figure 1). Over 52% of the vessels from the unknown site vessel assemblage are of Titus phase stylistic affiliation. The fine ware vessels are dominated by a number of varieties of Ripley Engraved carinated bowls and bottles, as well as Wilder Engraved bottles, Bailey Engraved bottles, Taylor Engraved carinated bowls and bottles, and Turner Engraved compound bowls. Utility wares in the Titus phase vessel series include significant number of Harleton Appliqued, Pease Brushed-Incised, and Karnack Brushed-Incised jars. There are also a few vessels of presumed non-local provenance in the Titus phase vessel series, particularly those made with shell temper, these likely originating among either Belcher phase or McCurtain phase Caddo groups on the Red River in Northwest Louisiana and East Texas, respectively. Shell-tempered vessels were made in these areas as early as ca. A.D. 1300, but are common only in both areas after ca. A.D. 1600 (see Perttula et al. 2012e).

The remaining 163 ceramic vessels (39%) cannot be definitively linked stylistically with currently defined East Texas Caddo ceramic types, nor are they regionally distinctive in form. These vessels include bottles, bowls, carinated bowls, compound bowls, and jars of disparate sizes and/or decorative elements and motifs. About 26% are engraved or red-slipped fine wares; 45% are utility wares, almost exclusively jars, with wet paste designs featuring incised, brushed, and punctated decorative elements in various rim and body combinations. About 29% of the unknown site/area vessel series are plain bottles, bowls, carinated bowls, compound bowls, and jars.

### **Ceramic Pipes**

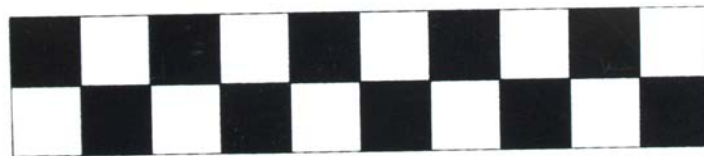
There are two ceramic pipes from unknown contexts in the Buddy Jones collection. The first is a Red River style long-stemmed pipe (2003.08.304) with a rounded butt end (Figure 113a), likely the Haley variety (Hoffman 1967:Figure 5a-c). This variety of pipe would have come from a Middle Caddo period

burial. The pipe is grog-hematite-tempered, and has a 100.0 mm long stem; the butt end is 38.2 mm in length. The stem diameter is 12.9 mm, with an exterior orifice diameter of 12.2 mm; the stem interior orifice diameter is 5.4 mm. The pipe bowl is 30.0 mm in height, with a bowl orifice diameter of 13.0 mm.

The second ceramic pipe is an elbow pipe with a keeled bowl (2003.08.300) (Figure 113b). This is a post-A.D. 1450 style Caddo pipe, and pipes of this form have also been found in historic Caddo sites in East Texas. The pipe is tempered with grog and bone. The pipe stem is 51.0 mm in length, with a stem diameter of 26.9 mm; the stem is 5.7 mm thick, and has an exterior orifice diameter of 25.7 mm. The bowl is 38.1 mm high, with a 32.0 mm orifice diameter.



**a**



**b**

**Figure 113. Ceramic pipes from unknown contexts in the Buddy Jones collection: a, Red River long-stemmed pipe; b, elbow pipe with keeled bowl.**

### End Notes

1. It has been recognized for many years that utility wares of the types Bullard Brushed, Killough Pinched, and Maydelle Incised also occur in ceramic assemblages of other Caddo phases, especially that of the Titus phase (see Suhm et al. 1954:192). For our purposes, however, vessels of these types in this vessel assemblage are considered with the upper Neches River vessel series since they are most common in the Frankston phase (Suhm et al. 1954:187).

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