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East Texas Caddo Ceramic Sherd Database

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East Texas Caddo Ceramic Sherd Database

Timothy K. Perttula

INTRODUCTION

A considerable amount of effort has been expended over the years by archaeologists in the identification, description, and classification of ancestral Caddo ceramic vessels and sherds recovered from sites across East Texas, beginning with the masterful efforts of Alex D. Krieger (1941, 1946). These analyses have led to an appreciation of the stylistic, technological, functional, and morphological character of Caddo ceramics, as well as their age, and their role in the identification and scale of social networks of different Caddo communities in existence as early as ca. A.D. 850 to the early 19th century.

The purpose of the compilation of attribute-level data on Caddo ceramic sherds in East Texas is to build on the understandings already achieved through many years of study by numerous individuals regarding the stylistic, technological, and functional character of Caddo ceramics (see Perttula 2013i). This compilation is a distillation of 50+ years of the analysis and study of Caddo ceramics—particularly the quantification of the methods of decorations present on sherds from different assemblages—and a compilation that is useful for both present and future detailed studies of the sherds from ceramic vessel made by perhaps 40 or more generations of skilled Caddo potters.

CERAMIC SHERD DATABASE

The East Texas Caddo ceramic sherd database (Table 1) presents uniform information on the character of ceramic assemblages on East Texas Caddo sites of different ages and components within sites collected from published reports, articles, and manuscripts (Figure 1). Ceramic data on a uniform set of attributes has been gathered from these sources of information, even when information is not available on all the attributes in the assemblages. The database contains assemblage-level information from 399 Caddo sites and/or components in East Texas and eight sites and/or components from sites along the Sabine River at Toledo Bend Reservoir in western Louisiana (Table 1). To date, the East Texas Caddo ceramic sherd database contains information on the occurrence and relative percentages of 248,148 decorated sherds from these sites/components, while there is similar information on 11,948 decorated sherds from the western Louisiana Caddo sites; the total number of decorated sherds in the database as of August 2014 is 260,096. For present purposes, the database entries were restricted to sites and assemblages with more than 40 decorated sherds in areas where decorated sherd assemblages were small (i.e., the upper Sulphur River drainage and upper Red River drainage), or with more than 90-100 sherds elsewhere in the region. On average, an individual site or assemblage in the database contain ca. 1500 decorated sherds on average.

The database includes percentage information on the following attributes: (a) temper (i.e., grog, bone, shell, grog-bone, and sandy paste); (b) firing conditions (reduced, oxidized, incompletely oxidized, and reduced-oxidized); (c) rim profile (direct, inverted, and everted); (d) lip profile (rounded, flat, rounded-exterior folded, and beveled); (e) use of pigments (red and white); (f) decorative methods in utility wares (appliqued, appliqued-brushed, appliqued-incised, appliqued-punctated, brushed, brushed-incised, brushed-punctated, brushed-appliqued, incised, incised-punctated, neck banded, pinched, tool punctated, fingernail punctated,

Table 1. East Texas Caddo ceramic sherd database.

| Table 1. | East | Tex | as (| Caddo | cera | mic | sherd | data | base. | | | | | | | | | | |
|--------------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|---------------|-----------------|------------|------------|-----------|-----------|----------|----------------------|-----------|--------|------|---------------|
| Trinomial | Tgrog | Tbone | Tshell | Tgrog-bone | Psandy | Freduced | Foxidized I | Finc-oxidized | d Fred-oxidized | d Rfdirect | Rfinverted | Rfeverted | Lfrounded | d Lfflat | Lfrounded-folded Lft | eveled Pr | ad Pw | hite | DMUWappliqued |
| 41CP495 | 92.40 | 7.50 | 0.10 | | | | | | | | | | | | | 0. | | | 1.00 |
| 41CP72 41RA13 | 94.10 12.00 | 5.60 44.40 | 2.20 23.10 | 0.90 | 19.40 | 42.30 | 2.90 | 4.80 | 50.00 | 55.50 | 22.20 | 22.20 | 80.00 | | 20.00 | 1. | 30 0. | 90 | 3.50 |
| 41CE421 | 94.60 | 5.40 | 23.10 | 0.50 | 15.40 | 17.00 | 36.00 | 3.00 | 44.00 | 33.30 | 22.20 | 22.20 | 80.00 | | 20.00 | | 0.0 | .01 | 0.30 |
| 41CE423 | 93.30 | | | 6.70 | | | | | | | | | | | | | | | |
| 41RA13 41CE426 | 11.90 99.00 | 29.50 1.00 | 48.10 | | 10.50 | 13.20 | 31.10 | 1.90 | 53.80 | | | | | | | | | | 0.60 |
| 41CE429 | 99.10 | 0.80 | | | | 11.60 | 34.70 | 9.50 | 44.20 | | | | | | | | | | |
| 41NA223 | 8.10 | 73.90 | 5.40 | 8.10 | 2.70 | 30.00 | 6.30 | 4.50 | 59.20 | 50.00 | 30.00 | 20.00 | 61.50 | 23.10 | 15.40 | | 0.9 | 90 | |
| 41CE324 | 96.80 | 1.10 | | 2.10 | 4.20 | 18.90 | 8.40 | 14.70 | 52.60 | 80.00 | 2.60 | 20.00 | 46.70 | 26.70 | 26.70 | | -0 | | |
| 41AN87 41CE309 | 81.10 85.00 | 2.70 15.00 | | 5.30 | 4.30 | 11.70 | 22.00 | 18.30 | 43.00 | 73.70 | 2.60 | 23.70 | 58.10 | 18.60 | 23.30 | 1. | iU | | |
| 41HE337 | 94.40 | 5.60 | | | | | | | | | | | | | | | | | 1.30 |
| 41CE354 | 95.10 | 0.90 | | 2.70 | 1.30 | 14.50 | 27.70 | 22.00 | 36.60 | 66.70 | 9.10 | 24.20 | 70.60 | 20.60 | 8.80 | | 0.8 | 80 | 1.10 |
| 41RK191 41RK197 | | | | | | | | | | | | | | | | | | | |
| 41RK200 | 38.60 | 42.40 | | 19.00 | | | | | | | | | | | | | | | 0.30 |
| 41CP230 | 88.90 | 0.10 | | 10.40 | 0.60 | | | | | | | | | | | | | | 1.60 |
| 41WD52 41FK107 | | | | | | | | | | | | | | | | | | | 5.20 0.50 |
| 41SM195 | 51.10 | | | 48.90 | | | | | | | | | | | | | | | 0.50 |
| 41TT650 | 65.00 | 1.60 | | 23.00 | | | | | | | | | | | | | | | |
| 41UR279 41CP245 | 89.20 | 1.30 | 0.60 | 8.90 | | 23.60 | 16.60 | 15.90 | 43.90 | | | | | | | 1. | 10 | | 1.30 2.40 |
| 41HS574 | 49.00 | 35.00 | | 16.00 | | | | | | | | | | | | | | | 1.70 |
| 41BW171 | | | | | | | | | | | | | | | | | | | 0.40 |
| 41WD46 | 95.00 | 5.00 | | | | | | | | 100.00 | | | 63.20 | | 36.80 | | | | 1.30 |
| 41LR351 41SM442 | 83.00 92.20 | 3.80 7.00 | | 13.20 | 0.80 | 14.70 20.00 | 15.60 12.00 | 9.40 24.00 | 56.10 44.00 | 97.30 | | 2.70 | 61.50 | 24.40 | 14.10 | | | | 0.60 1.40 |
| 41CE339 | 95.50 | 4.50 | | | 0.00 | 20.00 | 12.00 | 24.00 | 44.00 | | | | | | | | | | 2.40 |
| 41CE445 | 94.50 | 5.50 | | | | | | | | | | | | | | | | | |
| 41SM440 41SM442 | 85.00 92.90 | 13.90 | | | 1.10 0.20 | 21.40 | 21.00 | 35.70 | 21.40 | | | | | | | 0. | 20 | | 1.70 |
| 41SM444 41SM444 | 95.00 | 6.90 5.00 | | | 0.20 | | | | | | | | | | | U. | .0 | | 1.70 |
| 41CP239 | 87.00 | 13.00 | | | | | | | | | | | | | | | | | 0.60 |
| 41GG31 | 90.50 | 8.90 | | 0.60 | | 20.00 | 42.00 | | 67.00 | | | | | | | 0. | 10 | | 1.00 |
| 41MR6 41CP288 | 90.00 71.00 | 10.00 28.00 | | | 0.30 | 20.00 | 13.00 | | 67.00 | | | | | | | | | | 2.90 |
| 41TT758 | 83.00 | 17.00 | | | 0.50 | | | | | | | | | | | | | | |
| 41FK107 | 57.90 | 2.90 | | 39.20 | | 10.40 | 16.30 | 9.50 | 58.50 | 94.60 | | 5.40 | 79.70 | 11.40 | 8.90 | 0. | | | 0.20 |
| 41CP490 41CE467 | 91.40 94.30 | 8.60 | | 5.70 | | 9.20 | 10.30 | 21.80 | 52.90 | | | | | | | 0. | 0 | | 3.90 0.30 |
| 41CP493 | 90.00 | 10.00 | | 3.70 | | 5.20 | 10.30 | 21.00 | 32.50 | | | | | | | | | | 0.30 |
| 41CP8, Area A | 92.00 | 8.00 | | | | | | | | | | | | | | | | | 1.70 |
| 41CP496 | 98.50 | 1.00 | 0.50 | | | | | | | | | | | | | 2. | | 70 | 1.40 |
| 41HP237 | 93.20 | 0.40 | 1.10 | 5.30 | | 21.00 | 13.80 | 14.50 | 48.10 | | | | | | | 3. | 0.4 | 40 | 12.40 |
| 41HP238 | 93.40 | | 4.40 | 2.20 | | 15.60 | 28.90 | 8.90 | 42.20 | | | | | | | 9. | | | 11.90 |
| 41HP240 | 92.20 | 0.50 | 3.30 | 4.00 | | 20.70 | 20.00 | 15.80 | 41.20 | 81.50 | | 18.50 | 58.30 | 9.40 | 28.10 | 3. | | | 16.20 |
| 41WD208 41SM193 | 98.90 55.50 | 1.10 44.50 | | | | | | | | | | | | | | 3.4 | 10 1.: | 10 | 10.30 |
| 41SM55 | 55.50 | 44.50 | | | | | | | | | | | | | | | | | 0.10 |
| 41HS524 | 81.70 | | | 18.30 | | | | | | 73.30 | | 26.70 | 56.70 | 30.00 | 3.30 | 10.00 | | | |
| 41PN149 | 75.40 | | | 24.60 | | 20.40 | 40.20 | | 42.20 | 39.00 | | 61.00 | 73.00 | 13.80 | 13.80 | | | | |
| 41RK476 41NA327 | 29.20 | | | 70.80 | | 39.40 | 18.20 | | 42.30 | | | | | | | | | | 1.00 |
| 41SM56 | 65.50 | | | 34.50 | | 81.00 | 19.00 | | | | | | | | | 1. | 0' | | |
| 41SA135 | 35.90 | 5.10 | | 59.00 | | | | | | | | | | | | | | | 4.00 |
| 41CP71 41CP490 | | | | | | | | | | | | | | | | | | | 1.80 2.90 |
| 41TT891 | | | | | | | | | | | | | | | | | | | 2.50 |
| 41TT892 | | | | | | | | | | | | | | | | | | | |
| 41LR351 41UR10 | 82.90 82.30 | 3.80 17.70 | | 13.30 | | 14.70 | 15.10 | 9.40 | 56.60 | 91.80 | | 2.00 | 55.00 | 24.50 | 20.20 | 0. | 20 | | 0.90 1.70 |
| 4101110 | 02.30 | 17.70 | | | | | | | | | | | | | | 3. | | | 1.70 |
| 41CE19 | 93.10 | | | 6.90 | | | | | | | | | | | | | 0. | 20 | |
| 41HP78 41DT16 | 86.60 | 5.10 12.00 | | 34.20 | 8.30 53.80 | | | | | | | | | | | | | | |
| 41DT52 | 100.00 | 12.00 | | 34.20 | 33.00 | | | | | | | | | | | | | | |
| 41HP102 | 84.30 | | 4.00 | | | | | | | | | | | | | | | | |
| 41DT1 | 11.50 | 3.80 | | 1.00 | 84.70 | | | | | | | | | | | | | | |
| 41HP105 41DT80 | 14.90 15.90 | 8.90 31.10 | 4.50 | 1.00 2.20 | 75.30 46.20 | | | | | | | | | | | | | | |
| 41HP105 | 79.40 | | | 6.70 | 2.90 | | | | | | | | | | | | | | |
| 41HP78 | 87.00 | | 1.00 | 11.00 | 4.00 | | | | | | | | | | | | | | |
| 41DT80 41AN19 | 73.00 77.90 | 12.70 | 1.00 | 22.00 9.10 | 4.00 0.30 | | | | | | | | | | | | | | 0.10 |
| 41NA144 | 77.50 | 12.70 | | 3.10 | 0.50 | | | | | | | | | | | | | | 0.10 |
| 41SY81 | | | | | | | | | | | | | | | | | | | 2.70 |
| 41HS11 41MR211 | 20.00 | 2.00 | 26 00 | 20.70 | 1 20 | | | | | | | | | | | | | | 1.40 |
| 41MR211 41HS835 | 29.60 22.00 | 2.60 55.00 | 36.80 | 29.70 23.00 | 1.30 | 12.80 | 19.10 | 6.40 | 61.70 | | | | | | | | | | 2.50 |
| 41HE22 | | | | | | | | | | | | | | | | | | | |
| 41HE166 | 98.50 | 1.50 | | | | | | | | | | | | | | | | | |
| 41HE185 41HE184 | | | | | | | | | | | | | | | | | | | |
| 41HE80 | 100.00 | | | | | | | | | | | | | | | | | | |
| 41AN67 | 99.20 | 0.80 | | | | | | | | | | | | | | | | | |
| 41AN70 | 97.20 | 2.70 | | | 0.10 | | | | | | | | | | | | | | |
| 41CE30 41CE86 | | | | | | | | | | | | | | | | | | | |
| 41CE19 | | | | | | | | | | | | | | | | | | | |
| 41CE19, Late | | | | | | | | | | | | | | | | | | | 1.20 |
| 41SB50 41SA89 | | | | | | | | | | | | | | | | | | | |
| 41SA89 41SA94 | | | | | | | | | | | | | | | | | | | |
| 41SB36 | | | | | | | | | | | | | | | | | | | |
| 41NA11 | | | 0.30 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

Table 1. East Texas Caddo ceramic sherd database, cont.

| Trinomial | DMUWappliqued-brushed [| DMUWappliqued-incised | DMUWappliqued-puncta | ted DMUWbrushed D | MUWbrushed-incised | DMUWbrushed-punctated | DMUWbrushed-applique | d DMUWincised DI | MUWincised-punctated |
|--------------------|-------------------------|-----------------------|----------------------|-------------------|--------------------|-----------------------|----------------------|------------------|----------------------|
| 41CP495 | | 0.70 | | 48.60 | 2.60 | 0.90 | 0.70 | 16.00 | 1.50 |
| 41CP72 41RA13 | | | | 19.50 52.70 | 6.30 | 1.80 | 0.90 | 15.00 9.10 | 4.40 |
| 41CE421 | | | 0.10 | 86.50 | 0.20 | 1.40 | | 4.10 | 0.20 |
| 41CE423 | | | | 91.90 | | 1.10 | | 5.20 | |
| 41RA13 | | | | 18.40 | | 2.60 | | 13.40 | |
| 41CE426 41CE429 | | | | 91.90 87.70 | 0.40 | 1.90 2.20 | 0.60 0.20 | 1.30 3.70 | |
| 41NA223 | | | | 35.40 | 4.20 | 2.20 | 2.10 | 10.40 | |
| 41CE324 | | | | 75.00 | 5.90 | 1.10 | | 3.70 | |
| 41AN87 | 1.50 | 0.30 | 0.90 | 51.10 | 1.50 | 0.30 | | 12.80 | 3.00 |
| 41CE309 41HE337 | 0.10 | | | 66.90 34.90 | 1.60 | 1.40 0.70 | 0.50 | 12.10 18.80 | 1.80 6.00 |
| 41CE354 | | | | 73.60 | 5.50 | 2.10 | 0.40 | 3.80 | 0.00 |
| 41RK191 | | | | 75.30 | 0.40 | 3.10 | | 12.80 | 0.40 |
| 41RK197 | | | | 67.90 | 1.60 | 2.40 | | 7.30 | 0.80 |
| 41RK200 41CP230 | | 0.30 | | 60.30 27.00 | 1.20 5.60 | 0.60 1.80 | 0.30 | 18.50 15.70 | 1.10 1.30 |
| 41WD52 | | 0.50 | 0.40 | 13.80 | 2.30 | 0.10 | 0.40 | 16.80 | 1.00 |
| 41FK107 | | | | 2.40 | | | | 19.40 | 2.40 |
| 41SM195 | | | | | | | | 14.30 38.90 | 3.80 |
| 41TT650 41UR279 | | | | 49.70 | 7.80 | | | 18.70 | 11.10 0.60 |
| 41CP245 | | 0.80 | | 20.30 | 3.20 | 3.20 | | 18.80 | 2.40 |
| 41HS574 | | | | 69.50 | | 1.70 | 6.80 | 3.40 | |
| 41BW171 41WD46 | 0.90 | | 0.40 | 49.50 | | | | 55.00 13.50 | 16.80 4.40 |
| 41LR351 | 0.50 | | 0.40 | 45.50 | | | | 46.60 | 5.70 |
| 41SM442 | | | | 6.90 | 1.40 | 1.40 | | 38.90 | 2.80 |
| 41CE339 | | | | 39.30 | 2.60 | | | 33.30 | 4.10 |
| 41CE445 41SM440 | | 1.30 1.50 | 1.30 | 48.80 40.60 | 1.30 | 2.90 | | 25.00 33.30 | 5.00 1.50 |
| 41SM442 | | 1.50 | | 9.10 | 0.30 | 1.20 | | 34.80 | 3.80 |
| 41SM444 | | 1.70 | | 48.30 | 5.20 | 1.70 | | 27.60 | 1.70 |
| 41CP239 | | 1.80 | | 48.20 | 7.30 | 1.20 | 1.80 | 9.80 | 1.20 |
| 41GG31 41MR6 | 1.50 | 0.20 | | 10.70 59.10 | 0.70 | 0.40 | 0.50 | 3.50 4.40 | 1.30 0.70 |
| 41CP288 | 1.50 | | | 6.10 | 0.70 | | | 18.20 | 6.10 |
| 41TT758 | | | | | | | | 24.60 | 2.90 |
| 41FK107 | | 4.00 | | 2.30 | 7.20 | 0.50 | 4.00 | 18.50 | 4.20 |
| 41CP490 41CE467 | | 1.00 0.30 | 0.30 | 42.90 83.00 | 7.30 1.30 | 0.50 1.00 | 1.00 | 12.70 | 1.50 0.30 |
| 41CP493 | | | | 18.60 | | 2.30 | | 23.00 | 9.30 |
| 41CP8, Area A | | | | 37.90 | 12.10 | 3.40 | | 15.50 | |
| 41CP496 | 2.80 | | | 29.60 | 7.00 | 2.10 | | 17.60 | 2.10 |
| 41HP237 | | | | 7.10 | 0.70 | | | 2.80 | |
| 41HP238 | | | | 2.40 | 4.80 | | | | |
| 41HP240 | 0.20 | 0.10 | 0.50 | 2.40 | 0.60 | 0.20 | 0.20 | 2.00 | 0.10 |
| 41WD208 41SM193 | | 1.10 | 1.10 | 8.00 27.80 | | 7.70 | 1.10 | 3.40 13.40 | 1.10 7.00 |
| 41SM55 | | | | 20.40 | 1.00 | 16.30 | | 20.80 | 5.50 |
| 41HS524 | | | | 3.20 | 0.40 | 0.40 | | 43.60 | 7.80 |
| 41PN149 41RK476 | 1.30 | | | 21.30 5.30 | | 1.70 | | 23.70 40.00 | 11.70 9.30 |
| 41NA327 | 1.50 | | | 72.70 | 2.00 | 3.00 | | 5.10 | 1.00 |
| 41SM56 | | | | | | | | 25.90 | 11.20 |
| 41SA135 | | | | 49.80 | | 0.60 | | 13.50 | 2.40 |
| 41CP71 41CP490 | 2.90 | 1.80 0.50 | 1.00 | 38.60 48.50 | 3.40 | 1.80 0.50 | | 10.50 12.10 | 1.80 0.50 |
| 41TT891 | 2.50 | 0.50 | 1.00 | 40.50 | 3.40 | 0.50 | | 22.00 | 6.80 |
| 41TT892 | | | | 1.80 | | | | 18.40 | 5.30 |
| 41LR351 | | 2.70 | | 20.20 | | 5.70 | 2.00 | 38.50 | 6.80 |
| 41UR10 | | 3.70 | | 39.30 | | 5.70 | 2.00 | 9.00 | 0.70 |
| 41CE19 | | | | 0.20 | | | | 38.30 | 19.00 |
| 41HP78 | | | | | | | | | |
| 41DT16 41DT52 | | | | 5.60 10.50 | 8.80 | | | 55.60 72.00 | 22.20 |
| 41HP102 | | | | 10.50 | 0.00 | | | 72.00 | |
| 41DT1 | | | | | | | | | |
| 41HP105 | | | | | | | | | |
| 41DT80 41HP105 | | | | | | | | | |
| 41HP78 | | | | | | | | | |
| 41DT80 | | | | | | | | | |
| 41AN19 41NA144 | | 1.20 | | 74.20 64.60 | | | | 6.10 14.60 | 2.40 |
| 41SY81 | | 1.20 | | 10.70 | | | | 42.70 | 14.70 |
| 41HS11 | | | | 50.80 | 10.70 | | | 8.80 | |
| 41MR211 | | | 2.50 | 60.30 | 7.50 | | 2.50 | 15.90 | 3.20 |
| 41HS835 41HE22 | | | 2.50 | 72.50 31.60 | 7.50 | | 2.50 | 7.50 | |
| 41HE166 | | | | 18.50 | | | | | |
| 41HE185 | | | | 50.70 | | | | | |
| 41HE184 41HE80 | | | | 68.50 62.70 | | | | | |
| 41AN67 | | | | 61.40 | | | | | |
| 41AN70 | | | | 65.90 | | | | | |
| 41CE30 | | | | 75.50 | | | | | |
| 41CE86 41CE19 | | | | 75.50 | | | | 14.00 | 6.10 |
| 41CE19, Late | | | | 83.10 | 0.60 | 0.50 | 0.80 | 5.10 | 1.80 |
| 41SB50 | | | | 46.30 | | | | 40.30 | 4.60 |
| 41SA89 41SA94 | | | | 28.10 | | | | 27.60 | 8.80 3.70 |
| 41SA94 41SB36 | | | | 29.10 9.60 | | | | 6.10 61.30 | 3.70 7.30 |
| 41NA11 | | | | 47.00 | | | | 12.60 | 7.00 |
| | | | | | | | | | |

Table 1. East Texas Caddo ceramic sherd database, cont.

| Trinomial | DMUWneck banded | DMUWpinched | DMUWtool punctated | DMUWfingernail punctated | DMUWcircular punctated | DMUWcane punctated | DMUWridged | DMFengpunct. | DMFWengraved | DMFWengraved-appliqued |
|------------------------|-----------------|--------------|--------------------|--------------------------|------------------------|--------------------|------------|--------------|----------------|------------------------|
| 41CP495 | 0.30 | | 3.70 | 0.40 | 0.50 | | 0.20 | | 20.20 | |
| 41CP72 | | 0.90 | 6.30 | 0.90 | 0.90 | | | | 32.70 | |
| 41RA13 41CE421 | 0.70 | 1.10 | 3.70 1.80 | 0.30 | | | | | 30.90 3.30 | |
| 41CE423 | | | | | | | | | 2.10 | |
| 41RA13 | | | 2.50 | | | | | | 60.90 | |
| 41CE426 41CE429 | 0.60 | | 1.30 1.10 | | | | 0.40 | | 3.10 2.60 | |
| 41NA223 | 2.10 | | | | | | | | 45.80 | |
| 41CE324 | | 1.60 | 0.50 | 1.60 | | | | 0.00 | 9.60 | |
| 41AN87 41CE309 | | 0.30 0.10 | 3.00 5.30 | 2.00 | | | | 0.90 | 17.00 8.10 | |
| 41HE337 | | 0.70 | 12.10 | 6.70 | | | | | 16.80 | |
| 41CE354 | 0.20 | | 0.60 | | | | | | 11.60 | |
| 41RK191 41RK197 | 0.40 | | 2.20 4.00 | | | | | | 4.90 16.10 | |
| 41RK200 | 0.04 | | 5.80 | | | | | 0.20 | 11.80 | |
| 41CP230 | 5.70 | | 3.60 | 5.90 | | 0.20 | | | 16.90 | |
| 41WD52 41FK107 | 4.30 | 1.00 | 2.90 28.40 | 28.40 | | | | 0.10 | 27.70 14.70 | |
| 41SM195 | | 1.00 | 30.50 | 21.90 | | | | | 29.50 | |
| 41TT650 | | | 2.80 | 11.10 | | | | | 30.60 | |
| 41UR279 41CP245 | | | 1.30 7.90 | 1.30 0.80 | | 0.60 0.80 | | | 16.10 17.30 | |
| 41HS574 | | | 5.10 | 3.40 | | 1.70 | | | 8.40 | |
| 41BW171 | | | 8.00 | 2.70 | | | | | 17.20 | |
| 41WD46 | 2.20 | | 11.80 | 0.90 1.90 | 0.50 | | | | 8.80 | |
| 41LR351 41SM442 | | | 5.70 13.90 | 1.90 6.90 | 0.60 1.40 | | | | 24.50 18.20 | |
| 41CE339 | 0.40 | 3.70 | 7.90 | 0.70 | 0.40 | | | | 6.70 | |
| 41CE445 | | 1.50 | 6.30 | 200 | | | | | 11.30 | |
| 41SM440 41SM442 | | 1.50 0.30 | 7.20 12.80 | 2.90 6.80 | 0.30 | | | | 8.70 15.10 | |
| 41SM444 | | 0.50 | 3.50 | 0.00 | 0.50 | | | | 10.30 | |
| 41CP239 | 1.80 | | 2.40 | | 0.60 | | | | 22.60 | |
| 41GG31 41MR6 | 0.30 | 0.20 | 2.80 | 0.40 | | | 1.50 | 0.60 | 78.90 26.30 | 0.10 |
| 41CP288 | | | 20.20 | 35.40 | | | 1.50 | | 14.10 | |
| 41TT758 | | | 4.40 | 53.60 | | | | | 14.50 | |
| 41FK107 41CP490 | 5.40 | 0.30 0.50 | 26.30 2.40 | 30.50 | 1.80 | | | | 14.00 21.00 | |
| 41CE467 | 1.60 | 0.70 | 0.70 | | | | | | 5.90 | |
| 41CP493 | | | 14.00 | 4.70 | | | | | 20.90 | |
| 41CP8, Area A | | | 5.20 | 0.70 | | | | | 20.70 | |
| 41CP496 | | | 4.90 | 0.70 | | | | | 24.70 | |
| 41HP237 | 7.40 | | 2.10 | 0.40 | | | | | 58.30 | |
| 41HP238 | 21.40 | | 2.40 | 2.40 | 0.20 | | | | 47.60 | |
| 41HP240 41WD208 | 10.00 21.80 | | 3.20 2.30 | 0.50 | 0.20 | | | | 44.60 49.60 | |
| 41SM193 | | 1.30 | 12.40 | 3.20 | | 3.50 | | | 22.60 | |
| 41SM55 | | 2.10 | 15.90 | 9.00 | 0.40 | 0.10 | | | 6.60 | |
| 41HS524 41PN149 | | | 13.50 N/A | 10.00 N/A | 0.40 N/A | 2.30 N/A | | | 16.70 10.30 | |
| 41RK476 | | | 14.70 | 10.70 | 6.70 | ., | | | 10.70 | |
| 41NA327 | | | 2.00 | | | | | | 12.10 | |
| 41SM56 41SA135 | | | 4.20 14.10 | 29.40 3.60 | | | | 0.20 | 29.40 15.80 | |
| 41CP71 | 3.50 | | 7.00 | 3.00 | | | | 0.20 | 33.30 | |
| 41CP490 | 1.50 | | 6.80 | | | | | | 15.00 | |
| 41TT891 41TT892 | | | 20.30 19.40 | 22.00 9.60 | | 0.90 | | | 28.80 43.80 | |
| 41LR351 | | | 5.10 | 2.60 | 0.90 | 1.70 | | | 28.20 | |
| 41UR10 | | | 1.70 | 1.00 | | | | | 35.70 | |
| 410510 | 0.10 | 2.00 | 1.00 | 21.00 | | | | | 14.30 | |
| 41CE19 41HP78 | 0.10 | 3.90 | 1.90 | 21.80 | | | | | 14.20 | |
| 41DT16 | | | 5.60 | 5.60 | 5.60 | | | | | |
| 41DT52 | | | | 7.00 | | 1.80 | | | | |
| 41HP102 41DT1 | | | | | | | | | | |
| 41HP105 | | | | | | | | | | |
| 41DT80 | | | | | | | | | | |
| 41HP105 41HP78 | | | | | | | | | | |
| 41DT80 | | | | | | | | | | |
| 41AN19 | 0.70 | 1.30 | 2.10 | 4.00 | | | 0.20 | | 11.50 | |
| 41NA144 41SY81 | | | 1.20 2.70 | 9.30 | | | | | 18.30 12.00 | |
| 41HS11 | | 0.80 | N/A | 9.50 N/A | | | 0.80 | | 12.80 | |
| 41MR211 | | | • | 3.20 | | | | | 15.90 | |
| 41HS835 41HE22 | | | | 7.60 | | | | | 5.00 | |
| 41HE166 | | | | 7.60 3.00 | | | | | 15.00 15.00 | |
| 41HE185 | | | | 0.90 | | | | | 7.40 | |
| 41HE184 | | | | 0.90 | | | | | 8.90 | |
| 41HE80 41AN67 | | | | 1.00 | | | | | 8.70 9.70 | |
| 41AN70 | | | | 0.60 | | | | | 7.50 | |
| 41CE30 | | | | 0.60 | | | | | 7.10 | |
| 41CE86 41CE19 | | | | 3.60 | | | | | 7.30 | |
| 41CE19 41CE19, Late | | | | 0.10 | | | | | 3.50 2.30 | |
| 41SB50 | | | | | | | 0.20 | | 4.50 | |
| 41SA89 | | | | | | | | | 12.50 | |
| 41SA94 41SB36 | | | | | | | | | 7.80 11.10 | |
| | | | | | | | | | 15.10 | |

Table 1. East Texas Caddo ceramic sherd database, cont.

| Trinomial | DMFWengraved-brushed | DMFWred-slipped | DMFWtrailed | Other decorative method | No. of decorated sherds | Reference | Estimated age |
|------------------------|----------------------|-----------------|-------------|-------------------------|-------------------------------|--|--|
| 41CP495 | | 3.10 | | | 764 | Perttula 2013a | ca. A.D. 1500-1550 |
| 41CP72 | | 7.10 | | | 113 | Perttula 2013b | ca. A.D. 1200-1430 |
| 41RA13 | | 1.80 | | 1.8 [Grooved] | 55 | Perttula 2012 | ca. A.D. 1750 |
| 41CE421 41CE423 | | | | | 1805 97 | Walters and Perttula 2012 Walters and Perttula 2012 | ca. 1680-1720 ca. 1680-1720 |
| 41RA13 | | | | | 719 | Story et al. 1967 | ca. A.D. 1750 |
| 41CE426 | | | | | 160 | Walters and Perttula 2012 | ca. 1680-1720 |
| 41CE429 | | | | 1.1 [Grooved] | 465 | Walters and Perttula 2012 | ca. 1680-1720 |
| 41NA223 41CE324 | 1.10 | | | | 48 188 | Perttula 2008a Perttula and Middlebrook 2009 | ca. A.D. 1750 ca. A.D. 1600-1650 |
| 41AN87 | | | | | 335 | Perttula 2009a | ca. A.D. 1400-1450 |
| 41CE309 | | 0.10 | | | 1369 | Perttula 2009b | ca. A.D. 1400-1560 |
| 41HE337 41CE354 | | 1.30 0.20 | | 0.7 [Lip notched] | 149 474 | Perttula 2009c Perttula 2009d | ca. A.D. 1400-1500 ca. A.D. 1650-1800 |
| 41RK191 | | 0.40 | | | 226 | Perttula et al. 2009 | ca. A.D. 1700-1730 |
| 41RK197 | | | | | 124 | Perttula et al. 2009 | ca. A.D. 1700-1730 |
| 41RK200 | | | | | 2282 | Perttula et al. 2009; Marceaux | A.D. 1720-1730 |
| 41CP230 | | 13.40 | 0.20 | | 1034 | Nelson and Perttula 2003a | A.D. 1430-1600 |
| 41WD52 41FK107 | | 24.30 2.40 | 0.20 | 0.5 [Lip notched] | 820 212 | Perttula 2005a Nelson and Perttula 2006 | ca. A.D. 1430-1550 ca. A.D. 1200-1430 |
| 41SM195 | | 2.40 | | olo [cip notened] | 105 | Walters 2003 | ca. A.D. 1315-1440 |
| 41TT650 | | 2.80 | | | 36 | Nelson et al. 2004 | ca. A.D. 1000-1200 |
| 41UR279 | | 2.60 | | | 155 | Perttula et al. 2004 | ca. A.D. 1430-1500 |
| 41CP245 | | 18.10 | | | 127 | Perttula and Nelson 2006a | ca. A.D. 1000-1400 |
| 41HS574 41BW171 | | | | | 59 262 | Perttula and Nelson 1997 Perttula 2005b | ca. A.D. 1200-1430 ca. A.D. 1300-1400 |
| 41WD46 | | 5.20 | | | 229 | Perttula et al. 1993a | ca. A.D. 1400-1430 |
| 41LR351 | | 12.60 | | | 159 | Perttula 2013c | ca. A.D. 1150-1300 |
| 41SM442 | | 7.00 | | | 72 | Perttula and Walters 2012 | ca. A.D. 1200-1400 |
| 41CE339 41CE445 | | | | | 267 80 | Perttula et al. 2012a Perttula et al. 2012a | ca. A.D. 1400-1480 ca. A.D. 1400-1480 |
| 41SM440 | | | | | 69 | Perttula et al. 2012a Perttula and Thacker 2014 | ca. A.D. 1400-1450 |
| 41SM442 | | 14.10 | | 0.3 [Lip notched] | 353 | Perttula and Thacker 2014 | ca. A.D. 1000-1300 |
| 41SM444 | | | | | 58 | Perttula and Thacker 2014 | ca. A.D. 1400-1480 |
| 41CP239 | 0.70 | 0.60 | | 0.2 (1) | 164 | Perttula 2013d | ca. A.D. 1430-1600 |
| 41GG31 41MR6 | 0.70 | 2.20 | 0.70 | 0.2 (Lip notched) | 1125 137 | Perttula et al. 2013a Perttula et al. 2012b | ca. A.D. 1550-1680 ca. A.D. 1600-1680 |
| 41CP288 | | 2.20 | 0.70 | | 99 | Perttula et al. 2012c | ca. A.D. 1200-1300 |
| 41TT758 | | | | | 69 | Perttula et al. 2012c | ca. A.D. 1000-1200 |
| 41FK107 | | 2.00 | 0.20 | | 651 | Perttula and Nelson 2012a | ca. A.D. 900-1400 |
| 41CP490 | | | | 2.010 | 205 | Perttula and Nelson 2012b | ca. A.D. 1430-1550 |
| 41CE467 41CP493 | | 4.70 | | 3.0 [Grooved] | 305 43 | Perttula et al. 2013b Perttula 2013e | ca. A.D. 1680-1720 ca. A.D. 1200-1400 |
| 41CP8, Area A | | 3.40 | | | 58 | Perttula 2013f | ca. A.D. 1430-1680 |
| 41CP496 | | 8.40 | | | 142 | Perttula 2013g | ca. A.D. 1430-1600 |
| | | | | 0.4 [Lip notched]; | | | |
| 41HP237 41HP238 | | 2.50 7.10 | 0.40 | 5.7 [CCI] | 283 42 | Perttula 2009e Perttula 2009e | ca. A.D. 1550-1680 ca. A.D. 1550-1680 |
| 41HP240 | | 14.70 | 0.60 | 2.9 [CCI] | 1347 | Perttula 2009e | ca. A.D. 1550-1680 |
| 41WD208 | | 2.20 | | | 87 | Perttula et al. 1993b | ca. A.D. 1430-1600 |
| 41SM193 | | 1.00 | | | 597 | Walters and Haskins 1998 | ca. A.D. 1300-1430 |
| 41SM55 | | 0.80 | | | 730 | Walters and Haskins 2000 | ca. A.D. 1200-1400 |
| 41HS524 41PN149 | | 2.00 | | | 562 300 | Perttula 2000 Haskins and Walters 2001 | ca. A.D. 1000-1200 ca. A.D. 1400-1650 |
| 41RK476 | | 1.30 | | | 75 | Walters 2001 | ca. A.D. 1000-1200 |
| 41NA327 | 1.00 | | | | 99 | Perttula et al. 2011a | ca. A.D. 1680-1720 |
| 41SM56 | | | | | 286 | Walters 2009 | ca. A.D. 1000-1200 |
| 41SA135 41CP71 | | | | | 468 57 | Middlebrook 2010 Perttula 2010a | ca. A.D. 1400-1450 ca. A.D. 1500-1680 |
| 41CP490 | | 1.00 | 0.50 | 0.5 [Lip notched] | 206 | Perttula et al. 2010a | ca. A.D. 1550-1680 |
| 41TT891 | | 1.70 | | | 59 | Perttula et al. 2010a | ca. A.D. 1000-1200 |
| 41TT892 | | 0.90 | | | 114 | Perttula et al. 2010a | ca. A.D. 1000-1200 |
| 41LR351 | | 15.40 | | | 117 | Perttula 2010a | ca. A.D. 1000-1150 |
| 41UR10 | | | | | 301 | Jelks and Tunnell 1959 Thurmond and Kleinschmidt | ca. A.D. 1430-1550 |
| 41CE19 | | | | 0.6 [Grooved] | 803 | 1979 | ca. A.D. 900-1300 |
| 41HP78 | | | | | 15 | McGregor et al. 1996 | ca. A.D. 980-1130 |
| 41DT16 | | | | | 18 | Doehner et al. 1978 | ca. A.D. 1200-1300 |
| 41DT52 | | | | | 57 187 | Doehner et al. 1978 | ca. A.D. 1200-1300 |
| 41HP102 41DT1 | | | | | 187 1 | Doehner and Larson 1978 Hyatt and Doehner 1975 | ca. A.D. 900-1200 ca. A.D. 900-1200 |
| 41HP105 | | | | | 18 | Hyatt and Doehner 1975 | ca. A.D. 900-1200 |
| 41DT80 | | | | | 8 | Hyatt and Doehner 1975 | ca. A.D. 900-1200 |
| 41HP105 | | | | | 26 | Hyatt et al. 1974 | ca. A.D. 1000-1200 |
| 41HP78 41DT80 | | | | | 5 15 | Hyatt et al. 1974 Hyatt et al. 1974 | ca. A.D. 900-1200 ca. A.D. 900-1200 |
| 41AN19 | | 0.10 | | | 5868 | Kleinschmidt 1982 | ca. A.D. 1400-1650 |
| 41NA144 | | | | | 82 | Corbin and Kisling 1983 | ca. A.D. 1400-1650 |
| 41SY81 | | 5.30 | | | 75 | Robinson 1997 | ca. A.D. 900-1200 |
| 41HS11 | | 4.00 | | | 1048 | Wormser 1991 Parsons et al. 2002 | ca. A.D. 1550-1680 |
| 41MR211 41HS835 | | | | | 63 40 | Parsons et al. 2002 Perttula 2002a | ca. A.D. 1800-1838 ca. A.D. 1430-1680 |
| 41HE22 | | | | | 133 | Anderson et al. 1974 | ca. A.D. 1430-1650 |
| 41HE166 | | | | | 1404 | Anderson et al. 1974 | ca. A.D. 1200-1400 |
| 41HE185 | | | | | 912 | Anderson et al. 1974 | ca. A.D. 1400-1650 |
| 41HE184 | | | | | 1693 | Anderson et al. 1974 | ca. A.D. 1400-1650 |
| 41HE80 41AN67 | | | | | 1730 4116 | Anderson et al. 1974 Anderson et al. 1974 | ca. A.D. 1400-1650 ca. A.D. 1400-1650 |
| 41AN70 | | | | | 1590 | Anderson et al. 1974 Anderson et al. 1974 | ca. A.D. 1400-1650 |
| 41CE30 | | | | | 622 | Anderson et al. 1974 | ca. A.D. 1400-1650 |
| 41CE86 | | | | | 220 | Anderson et al. 1974 | ca. A.D. 1400-1650 |
| 41CE19 | | | | | 379 | Fields 1978 | ca. A.D. 900-1300 |
| 41CE19, Late 41SB50 | | | | | 488 4452 | Fields and Thurmond 1980 Jelks 1965 | ca. A.D. 1400-1650 ca. A.D. 1400-1680 |
| 41SA89 | | | | | 3409 | Jelks 1965 Jelks 1965 | ca. A.D. 1200-1400 |
| 41SA94 | | | | | 1960 | Jelks 1965 | ca. A.D. 1200-1400 |
| 41SB36 | | | | | 550 | Jelks 1965 | ca. A.D. 1200-1400 |
| 41NA11 | | | | | 2504 | Jelks 1965 | ca. A.D. 1400-1680 |

Table 1. East Texas Caddo ceramic sherd database, cont.

| rinomial | Tgrog | Tbone | Tshell | Tgrog-bone | Psandy | Freduced | Foxidized F | inc-oxidized F | red-oxidized | Rfdirect | Rfinverted | Rfeverted | Lfrounded | Lfflat | Lfrounded-folded | Lfbeveled Pr | red I | Pwhite | DMUWappliqu |
|--|--|---|--------------|---|----------------------|----------------|---------------|----------------|----------------|----------------|--------------|-------------------------|----------------|---------------|------------------|--------------|-------|--------|---|
| 1SA123 | | | 0.20 | | | | | | | | | | | | | | | | |
| 1SB8 | | | 0.20 | | | | | | | | | | | | | | | | |
| 1SA69 | | | 0.50 | | | | | | | | | | | | | | | | |
| SA116 | 00.20 | | 0.20 | | | | | | | | | | | | | | | | 44.00 |
| BW3 UR118 | 99.20 | | 0.80 | | | | | | | | | | | | | | | | 11.90 0.90 |
| UR133 | | | | | | | | | | | | | | | | | | | 1.30 |
| UR106 | | | | | | | | | | | | | | | | | | | 2.90 |
| UR130 | | | | | | | | | | | | | | | | | | | |
| UR109 UR105 | | | | | | | | | | | | | | | | | | | 9.20 |
| JR116 | | | | | | | | | | | | | | | | | | | |
| UR114 | | | | | | | | | | | | | | | | | | | |
| BW553 | 86.00 | 6.00 | 2.10 | 4.50 | 0.60 | 45.20 | 14.90 | 2.60 | 36.90 | 23.30 | | | 56.70 | 36.70 | | 3.30 | | | 5.40 |
| T670 | 87.00 | 0.20 | | 12.40 | 0.20 | 39.60 | 18.90 | 5.40 | 36.10 | 29.00 | | | 52.60 | 34.20 | | | | | 1.00 |
| 1S240 CP408 | 57.20 66.10 | 13.00 10.30 | | 26.00 22.80 | 1.50 0.80 | 28.50 17.90 | 16.90 9.60 | 10.00 11.10 | 44.60 61.40 | 70.80 | 8.30 | | 73.30 | 8.30 | 4.20 | 2 | .10 | | 2.20 0.80 |
| IA231 | 64.90 | 7.60 | | 24.60 | 1.80 | 23.30 | 23.30 | 13.50 | 42.40 | 70.80 | 8.30 | | /3.30 | 8.30 | 4.20 | | .40 | | 0.60 |
| IA235 | 51.60 | 12.10 | | 35.50 | | 24.20 | 25.80 | 7.30 | 42.70 | | | | | | | | .10 | | |
| IA236 | 70.70 | 16.00 | | 12.00 | 1.30 | 9.30 | 25.30 | 21.30 | 41.30 | | | | | | | | | 0.20 | 0.40 |
| IA242 | 72.20 | 3.50 | | 23.90 | 0.50 | 34.00 | 25.00 | 8.00 | 33.00 | | | | | | | | .10 | | 0.10 |
| A285 A338 | 68.70 | 11.50 | | 14.70 | 1.70 | 19.40 | 11.90 | 10.40 | 54.00 | | | | | | | 0. | .40 | | 0.10 |
| IA21 | | | | | | | | | | | | | | | | | | | 0.20 |
| IA304 | | | | | | | | | | | | | | | | | | | |
| IA303 | 24.90 | 17.70 | 0.50 | 56.40 | 0.50 | 26.80 | 8.90 | 18.90 | 45.30 | | | | | | | | | | 0.60 |
| P106 | 70.10 | 6.80 | 0.30 | 22.20 | | 45 | 42.00 | 45.45 | | 97.90 | 0.50 | 1.60 | 90.00 | 22 | 8.20 | | 70 | | |
| K170 | 76.00 | 7.40 | 0.70 | 14.90 | 1.70 | 15.70 | 12.10 | 15.10 | 57.10 | 88.00 | 4.60 | 7.40 | 68.40 | 22.10 | 7.40 | 1. | .70 | | 0.20 |
| P304 S15 | 89.60 44.00 | 1.10 16.00 | 0.70 0.01 | 7.50 40.00 | 1.10 | 23.90 | 13.90 | 11.00 | 52.20 | 83.50 4.00 | 0.80 2.00 | 15.70 69.00 | 45.00 36.00 | 17.30 5.00 | 37.70 36.00 | n | .60 | 0.20 | 0.60 4.10 |
| A49 | 75.90 | 24.10 | | | | | | | | 73.00 | | 27.00 | 61.90 | 25.40 | 11.90 | 0. | - | | 0.40 |
| E70 | 44.40 | 50.00 | 3.40 | | 2.30 | | | | | | | | | | | 0. | .20 | | |
| N6 | 83.70 | | | 16.30 | | | | | | | | | | | | | | | |
| T1 M73 | 72.40 | | 1.60 | 26.10 | | | | | | | | | | | | | | | |
| v173 V174 | | | | | | | | | | | | | | | | | | | |
| и76 | | | | | | | | | | | | | | | | | | | |
| И82 | | | | | | | | | | | | | | | | | | | |
| V187 | | | | | | | | | | | | | | | | | | | |
| И89 400 | | | | | | | | | | | | | | | | | | | |
| И90 И91 | | | | | | | | | | | | | | | | | | | |
| E22 | | | | | | | | | | | | | | | | | | | |
| 39 | | | | | | | | | | | | | | | | | | | |
| D529 | 99.20 | 0.80 | | | | | | | | | | | | | | 0. | .50 | 0.60 | 11.20 |
| D51 | 98.60 | 1.40 | | | | | | | | | | | | | | | | | 17.70 |
| E114 P175 | 57.00 | 0.10 | 40.50 | 2.10 | | | | | | 11.00 | 26.40 | 62.60 | 22.40 | 32.80 | 44.80 | 1 | .80 | | 0.20 4.50 |
| A5 | 14.70 | 25.70 | 25.70 | 3.50 | 30.60 | | | | | 11.00 | 20.40 | 02.00 | 22.40 | 32.00 | 44.00 | 1. | .00 | | 1.60 |
| W5 | 20.50 | 5.00 | 71.30 | | 3.20 | | | | | | | | | | | | | | 0.40 |
| 516 | 41.20 | 51.20 | | 7.20 | 0.40 | 13.40 | 27.70 | | 58.90 | 48.90 | 43.30 | 7.80 | 84.70 | 14.20 | 1.00 | | | | |
| N83 R1 | 68.80 | 24.10 | 43.80 | 7.10 | FC 20 | | | | | | | | | | | | | | 2.20 |
| 48 | | | 43.60 | | 56.20 | | | | | | | | | | | | | | 1.70 |
| G33 | | | | | | | | | | | | | | | | | | | 2.70 |
| K3 | 52.00 | 43.00 | 5.10 | | | | | | | | | | | | | | | | 2.50 |
| W169 | 98.00 | 0.40 | 0.90 | 0.50 | | 31.30 | 12.20 | 16.20 | 31.80 | | | | | | | | | | 2.00 |
| N716 N175 | 72.40 | CC 70 | 27.60 | 13.00 | 1.50 | 38.30 20.40 | 16.10 | 7.40 | 38.30 | 76.00 | | 24.00 | 85.00 | 15.00 | | | | | 1.40 |
| 20 | 18.80 | 66.70 | | 13.00 | 1.50 | 20.40 | 8.40 | 18.00 | 53.50 | 76.00 | | 24.00 | 85.00 | 15.00 | | | | | 1.40 |
| 19 | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | |
| 39 | | | | | | | | | | | | | | | | | | | |
| 154 | 400.00 | | | | | | | | | | | | | | | | | | 2.20 |
| 1 13 | 100.00 | | | | | | | | | | | | | | | 0 | .10 | | 7.70 3.40 |
| | | | 5.00 | 17.00 | | | | | | 33.30 | 33.30 | 33.30 | 50.00 | 50.00 | | | .10 | | 3.40 |
| 11 | 76.00 | | | 6.00 | | | | | | | | | | 66.70 | 33.30 | | | | |
| 21 | 84.00 | | 1.00 | | | | | | | | | | 75.00 | 25.00 | | | | | 6.30 |
| 21 54 | 84.00 68.00 | | 4.00 | 21.00 | | | | | | | | 100.00 | | | | | | | |
| 21 54 63 | 84.00 68.00 76.00 | 6.00 | | 21.00 15.00 | | | | | | | | 100.00 | 16.70 | 83.30 | | | | | 0.00 |
| 21 54 63 D73 | 84.00 68.00 76.00 55.70 | 17.90 | 4.00 | 21.00 15.00 25.50 | | | | | | | | 100.00 | 10.70 | 83.30 | | | | | 0.90 |
| 21 54 63 073 0482 | 84.00 68.00 76.00 | | 4.00 | 21.00 15.00 | | | | | | | | 100.00 | 10.70 | 83.30 | | | | | 0.90 2.00 7.70 |
| 21 54 63 D73 D482 D495 D538 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 | 17.90 11.20 5.10 5.10 | 4.00 | 21.00 15.00 25.50 16.50 30.00 7.60 | | | | | | | | 100.00 | 16.70 | 83.30 | | | | | 2.00 7.70 12.50 |
| 721 754 763 7073 70482 70495 70538 70450 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 86.90 | 17.90 11.20 5.10 5.10 0.90 | 4.00 | 21.00 15.00 25.50 16.50 30.00 7.60 11.40 | | | | | | | | 100.00 | 16.70 | 83.30 | | | | | 2.00 7.70 |
| 721 754 763 7073 70482 70495 70538 70450 70503 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 86.90 82.80 | 17.90 11.20 5.10 5.10 0.90 1.60 | 4.00 | 21.00 15.00 25.50 16.50 30.00 7.60 | | | | | | | | 100.00 | 16.70 | 83.30 | | | | | 2.00 7.70 12.50 1.50 |
| T21 T54 T63 D73 D482 D495 D538 D450 D503 D109 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 86.90 82.80 95.40 | 17.90 11.20 5.10 5.10 0.90 1.60 4.30 | 4.00 | 21.00 15.00 25.50 16.50 30.00 7.60 11.40 15.20 | 8,20 | | | | | | | 100.00 | 16.70 | 83.30 | | | | | 2.00 7.70 12.50 1.50 |
| 21 54 63 073 0482 0495 05538 0450 05503 0109 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 86.90 82.80 | 17.90 11.20 5.10 5.10 0.90 1.60 | 4.00 | 21.00 15.00 25.50 16.50 30.00 7.60 11.40 | 8.20 | | | | | | | 100.00 | 16.70 | 83.30 | | | | | 2.00 7.70 12.50 1.50 |
| 721 754 763 773 784 785 785 785 785 785 785 785 785 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 86.90 82.80 95.40 32.70 | 17.90 11.20 5.10 5.10 0.90 1.60 4.30 9.80 | 4.00 | 21.00 15.00 25.50 16.50 30.00 7.60 11.40 15.20 | 8.20 | | | | | | | 100.00 | 16.70 | 83.30 | | | | | 2.00 7.70 12.50 1.50 3.90 3.00 |
| 21 54 63 5073 6482 6482 6495 6538 6450 6503 6009 6142 6136 6139 638 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 82.80 95.40 32.70 95.00 91.80 | 17.90 11.20 5.10 5.10 0.90 1.60 4.30 9.80 5.00 | 4.00 | 21.00 15.00 25.50 16.50 30.00 7.60 11.40 15.20 49.30 | 8.20 | | | | | | | 100.00 | 16.70 | 83.30 | | | .00 | | 2.00 7.70 12.50 1.50 3.90 3.00 8.90 |
| 221 554 663 D73 D482 D495 D5538 D450 D503 D109 1142 1136 1139 138 M243 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 82.80 95.40 32.70 95.00 91.80 | 17.90 11.20 5.10 5.10 0.90 1.60 4.30 9.80 | 4.00 | 21.00 15.00 25.50 16.50 30.00 7.60 11.40 15.20 49.30 8.20 | | 47.90 | 23.00 | | 28.20 | | | 100.00 | 16.70 | 83.30 | | | .00 | 0.90 | 2.00 7.70 12.50 1.50 3.90 3.00 8.90 |
| 21 54 63 D73 D482 D495 D538 D450 D503 D109 H142 H136 H139 H38 H243 4 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 86.90 82.80 95.40 32.70 95.00 91.80 | 17.90 11.20 5.10 5.10 0.90 1.60 4.30 9.80 5.00 | 4.00 | 21.00 15.00 25.50 16.50 30.00 7.60 11.40 15.20 49.30 8.20 47.90 27.60 | 0.10 | | | 14.50 | | | | 100.00 | 16.70 | 83.30 | | 0. | .90 | 0.90 | 2.00 7.70 12.50 1.50 3.90 3.00 8.90 2.50 |
| 21 54 63 073 0482 0495 05038 0450 05503 01009 1142 1136 1139 1138 1243 4 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 82.80 95.40 95.40 91.80 45.70 72.30 74.30 | 17.90 11.20 5.10 5.10 0.90 1.60 4.30 9.80 5.00 | 4.00 1.00 | 21.00 15.00 25.50 16.50 30.00 7.60 11.40 15.20 49.30 8.20 | | 23.00 | 15.80 | 14.50 17.80 | 46.70 | | | 10000 | 16.70 | 83.30 | | 0. | | 0.90 | 2.00 7.70 12.50 1.50 3.90 3.00 8.90 2.50 |
| 21 54 63 D73 D482 D495 D538 D450 D503 D109 1142 1136 1139 138 12243 4 1325 769 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 86.90 82.80 95.40 32.70 95.00 91.80 | 17.90 11.20 5.10 5.10 0.90 1.60 4.30 9.80 5.00 | 4.00 | 21.00 15.00 25.50 16.50 30.00 7.60 11.40 15.20 49.30 8.20 47.90 27.60 | 0.10 | | | 14.50 17.80 | | | | 2000 | 16.70 | 83.30 | | 0. | .90 | 0.90 | 2.00 7.70 12.50 1.50 3.90 3.00 8.90 2.50 |
| 21 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 86.90 82.80 95.40 95.00 91.80 45.70 72.30 74.30 83.60 | 17.90 11.20 5.10 5.10 0.90 1.60 4.30 9.80 5.00 5.90 | 4.00 1.00 | 21.00 15.00 25.50 30.00 7.60 11.40 15.20 49.30 8.20 47.90 27.60 17.10 | 0.10 1.30 | 23.00 | 15.80 | | 46.70 | 66.70 | 20.00 | 13.30 | 16.70 | 83.30 | | 0. | .90 | 0.90 | 2.00 7.70 12.50 1.50 3.90 3.00 8.90 2.50 |
| 21 54 563 773 7482 7495 7538 7538 75538 75538 7553 7553 7553 7553 7553 7553 7553 7553 7553 7553 7553 7554 7554 7554 7555 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 86.90 82.80 95.40 32.70 91.80 45.70 72.30 74.30 83.60 70.80 69.60 95.50 | 17.90 11.20 5.10 5.10 0.90 1.60 4.30 9.80 5.00 5.90 4.60 12.60 13.10 30.40 4.50 | 4.00 1.00 | 21.00 15.00 25.50 30.00 7.60 11.40 15.20 49.30 8.20 47.90 27.60 17.10 | 0.10 1.30 | 23.00 | 15.80 | | 46.70 | 66.70 | 4.20 | 13.30 29.20 | 16.70 | 83.30 | | 0. | .90 | 0.90 | 2.00 7.70 12.50 1.50 3.90 3.00 8.90 2.50 |
| 21 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 86.90 82.80 95.40 95.40 91.80 45.70 72.30 74.30 74.30 69.60 95.60 95.50 | 17.90 11.20 5.10 5.10 0.90 1.60 4.30 9.80 5.00 5.90 4.60 12.60 13.10 30.40 4.50 17.30 | 4.00 1.00 | 21.00 15.00 25.50 30.00 7.60 11.40 15.20 49.30 8.20 47.90 27.60 17.10 | 0.10 1.30 | 23.00 | 15.80 | | 46.70 | 66.70 62.80 | 4.20 4.70 | 13.30 29.20 32.60 | 16.70 | 83.30 | | 0. | .90 | 0.90 | 2.00 7.70 12.50 1.50 3.90 3.00 8.90 2.50 |
| 21 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 86.90 82.80 95.40 32.70 95.00 91.80 45.70 72.30 74.30 83.60 70.80 69.60 95.50 82.70 72.30 | 17.90 11.20 5.10 5.10 0.90 1.60 4.30 9.80 5.00 5.90 4.60 12.60 13.10 30.40 4.50 | 4.00 1.00 | 21.00 15.00 25.50 16.50 30.00 7.60 11.40 15.20 49.30 8.20 47.90 27.60 17.10 | 0.10 1.30 | 23.00 | 15.80 | | 46.70 | 66.70 | 4.20 | 13.30 29.20 | 16.70 | 83.30 | | 0. | .90 | 0.90 | 2.00 7.70 12.50 1.50 3.90 3.00 8.90 2.50 |
| 21 54 56 5773 778 779 77 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 86.90 95.40 32.70 95.00 91.80 45.70 72.30 74.30 83.60 70.80 69.60 95.50 82.70 72.30 | 17.90 11.20 5.10 5.10 0.90 1.60 4.30 9.80 5.00 5.90 4.60 12.60 13.10 30.40 4.50 17.30 | 4.00 1.00 | 21.00 15.00 25.50 30.00 7.60 11.40 15.20 49.30 8.20 47.90 27.60 17.10 | 0.10 1.30 | 23.00 | 15.80 | | 46.70 | 66.70 62.80 | 4.20 4.70 | 13.30 29.20 32.60 | 16.70 | 83.30 | | 0. | .90 | 0.90 | 2.00 7.70 12.50 1.50 3.90 3.00 8.90 2.50 |
| 221 554 663 7073 00482 00495 00503 00503 00503 00109 1142 1136 1139 138 144 4 4325 769 077 Creek #2 075 0524 48 074 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 86.90 82.80 95.40 32.70 95.00 91.80 45.70 72.30 74.30 83.60 70.80 69.60 95.50 82.70 72.30 | 17.90 11.20 5.10 5.10 0.90 1.60 4.30 9.80 5.00 5.90 4.60 12.60 13.10 30.40 4.50 17.30 | 4.00 1.00 | 21.00 15.00 25.50 16.50 30.00 7.60 11.40 15.20 49.30 8.20 47.90 27.60 17.10 | 0.10 1.30 | 23.00 | 15.80 | | 46.70 | 66.70 62.80 | 4.20 4.70 | 13.30 29.20 32.60 | 16.70 | 83.30 | | 0. | .90 | 0.90 | 2.00 7.70 12.50 1.50 3.90 3.00 8.90 2.50 |
| 111 121 1521 1521 1521 1522 1523 1523 15 | 84.00 68.00 76.00 55.70 64.40 86.70 86.90 82.80 95.40 32.70 95.00 91.80 74.30 83.60 70.80 69.60 95.50 72.30 5.60 95.50 | 17.90 11.20 5.10 0.90 1.60 4.30 9.80 5.00 5.90 4.60 12.60 13.10 30.40 4.50 17.30 27.70 | 4.00 1.00 | 21.00 15.00 25.50 16.50 30.00 7.60 11.40 15.20 49.30 8.20 47.90 27.60 17.10 | 0.10 1.30 | 23.00 | 15.80 | | 46.70 | 66.70 62.80 | 4.20 4.70 | 13.30 29.20 32.60 | 16.70 | 83.30 | | 0. | .90 | 0.90 | 2.00 7.70 12.50 1.50 3.90 3.00 8.90 2.50 0.30 7.70 |
| 21 54 56 57 78 78 79 79 79 79 79 7 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 86.90 82.80 95.40 95.00 91.80 72.30 74.30 83.60 70.80 69.60 95.50 82.70 95.50 82.70 95.50 82.70 95.50 | 17.90 11.20 5.10 5.10 0.90 1.60 4.30 9.80 5.00 5.90 4.60 12.60 13.10 30.40 4.50 17.30 27.70 | 4.00 1.00 | 21.00 15.00 25.50 16.50 30.00 7.60 11.40 49.30 8.20 47.90 27.60 17.10 | 0.10 1.30 1.40 | 23.00 | 15.80 | | 46.70 | 66.70 62.80 | 4.20 4.70 | 13.30 29.20 32.60 | 16.70 | 83.30 | | 0. | .90 | 0.90 | 2.00 7.70 12.50 1.50 3.90 3.00 8.90 2.50 0.30 7.70 |
| 21 54 63 7773 7773 7773 7773 7773 7773 7773 | 84.00 68.00 76.00 55.70 64.40 57.40 86.70 86.90 82.80 95.40 95.00 91.80 72.30 74.30 83.60 70.80 69.60 95.50 82.70 95.50 82.70 95.50 82.70 95.50 | 17.90 11.20 5.10 5.10 0.90 1.60 4.30 9.80 5.00 5.90 4.60 12.60 13.10 30.40 4.50 17.30 27.70 | 4.00 1.00 | 21.00 15.00 25.50 16.50 30.00 7.60 11.40 49.30 8.20 47.90 27.60 17.10 | 0.10 1.30 1.40 | 23.00 | 15.80 | | 46.70 | 66.70 62.80 | 4.20 4.70 | 13.30 29.20 32.60 | 16.70 | 83.30 | | 0. | .90 | 0.90 | 2.00 7:70 12.50 1.50 3.90 3.00 8.90 2.50 0.30 7.70 |

Table 1. East Texas Caddo ceramic sherd database, cont.

| Trinomial | DMUWappliqued-brushed DMUWappliqued- | incised DMUWappliqued-puncta | ted DMUWbrushed [| OMUWbrushed-incised | DMUWbrushed-punctated | DMUWbrushed-appliqu | ed DMUWincised DN | UWincised-punctate |
|--|--------------------------------------|------------------------------|-------------------|---------------------|-----------------------|---------------------|---------------------------|------------------------|
| 41SA123 | | | 32.10 | | | | 24.70 | 2.00 |
| 41SB8 | | | 57.80 | | | | 23.90 | 3.30 |
| 41SA69 | | | 15.70 | | | | 45.70 | 4.30 |
| 41SA116 41BW3 | | | 27.20 | 8.60 | | | 41.70 14.4 {Trailed-I] | 4.50 |
| 41UR118 | | | 50.00 | 8.00 | 3.00 | | 7.90 | 1.80 |
| 41UR133 | | | 50.00 | 0.40 | 1.50 | | 15.00 | 1.10 |
| 41UR106 | | | 30.80 | | 1.80 | | 17.00 | 2.20 |
| 41UR130 | | | 63.50 | | 1.90 | | 7.70 | |
| 11UR109 | | | 36.60 | | 2.10 | | 2.80 | 1.40 |
| 41UR105 | | 0.00 | 23.90 | 0.60 | 1.20 | | 17.10 | 4.40 |
| 11UR116 | | 0.80 | 19.40 | 0.40 | 0.80 | | 14.50 | 1.50 2.00 |
| 41UR114 41BW553 | | | 53.10 1.40 | 2.00 | 6.10 1.40 | | 10.20 58.10 | 8.10 |
| 41TT670 | | | 1.40 | | 1.00 | | 53.10 | 4.10 |
| 11HS240 | | | 77.80 | | | 4.40 | 11.10 | 2.20 |
| 41CP408 | 0.80 | 0.80 | 12.50 | 2.30 | | | 24.20 | 6.30 |
| 41NA231 | 0.10 | 0.20 | 34.50 | 3.30 | 3.00 | 1.30 | 15.90 | 7.80 |
| 11NA235 | 0.70 | | 41.40 | 5.70 | 3.60 | 0.80 | 22.50 | 3.70 |
| 11NA236 | 0.20 | | 67.30 | 4.90 | 1.80 | 1.70 | 12.00 | 1.00 |
| 1NA242 1NA285 | 0.20 | | 30.00 11.60 | 1.60 0.50 | 4.00 1.10 | 0.80 0.80 | 14.90 24.10 | 7.60 9.40 |
| 1NA338 | | | 72.80 | 0.30 | 1.10 | 0.40 | 3.20 | 5.40 |
| 1NA21 | | | 78.90 | 1.00 | 2.40 | 0.40 | 1.30 | |
| 1NA304 | | | 44.10 | 0.20 | 3.30 | 1.00 | 13.40 | 2.50 |
| 1NA303 | | | 37.80 | | 2.80 | | 10.20 | 4.80 |
| 1HP106 | 0.20 | 0.70 | 3.70 | 0.30 | 0.20 | | 8.40 | 7.60 |
| 1RK170 | 0.20 | | 2.80 | 0.20 | 2.00 | 0.20 | 25.70 | 16.00 |
| 1CP304 | 0.20 | 0.10 | 39.80 | 3.20 | 2.00 | 0.80 | 13.50 | 2.50 |
| 1HS15 | | | 66.10 | 2.00 | F.C0 | 4.00 | 9.00 | 4.20 |
| 1NA49 1HE70 | 0.10 | | 55.00 24.70 | 3.90 1.20 | 5.60 | 1.60 | 13.20 25.90 | 4.20 7.20 |
| 1HE70 1VN6 | | | 51.40 | 1.20 | | | 25.90 | 1.10 |
| 1DT1 | | | 320 | | | | 39.20 | 5.90 |
| 1SM73 | | | 23.30 | 3.00 | | | 35.90 | - |
| 1SM74 | | | 74.70 | 1.10 | | | 2.20 | |
| 1SM76 | | | 68.90 | | | | 16.70 | |
| 1SM82 | | | 86.70 | | | | 4.00 | |
| 1SM87 | | | | | | | 42.90 | |
| 1SM89 | | | 37.90 | | 1.20 | | 31.60 | 2.10 |
| 1SM90 1SM91 | | | 60.50 82.70 | | 1.20 | | 13.60 6.10 | 2.50 |
| 1HE22 | | | 76.50 | | | | 12.30 | 1.30 |
| 1CE39 | | | 75.20 | | | | 15.90 | |
| 1WD529 | | | 8.70 | | 0.40 | 0.20 | 4.00 | 0.10 |
| 41WD51 | | | 0.70 | | | | 3.40 | |
| 41HE114 | | | 84.00 | | 0.20 | | 5.00 | |
| 41HP175 | | 2.90 | | | 0.40 | | 2.70 | |
| 11RA5 | | | 7.90 | | | | 9.50 | |
| 41BW5 41HS16 | | 0.20 | 1.30 8.00 | | 1.10 | | 0.20 43.20 | 48.10 30.70 |
| 415A83 | | | 44.10 | | 6.90 | 0.20 | 13.90 | 8.00 |
| 41LR1 | | | 44.10 | | 0.50 | 0.20 | 13.30 | 38.70 |
| 41RA8 | | | | | | | 63.80 | |
| 41GG33 | | | | | | | 90.00 | 1.30 |
| 41RK3 | | | 40.40 | | 13.90 | | 2.50 | 11.40 |
| 41BW169 | | | 6.10 | 1.00 | | | 13.10 | |
| 1BW716 | | | 47.40 | | | | 15.80 | |
| 11PN175 11CP20 | | | 52.70 38.70 | 4.40 | 0.30 | 0.70 | 25.70 22.60 | 1.70 12.90 |
| 11RK19 | | | 40.40 | | | | 35.60 | 12.50 |
| 1RK30 | | | 8.60 | | | | 60.00 | |
| 1RK39 | | | 58.30 | | | | 31.30 | |
| 1SM54 | | 2.20 | 1.10 | | 1.10 | | 17.80 | 6.70 |
| 1HP1 | | | 2.60 | | | | 12.80 | |
| 1TT13 | | | 11.20 | 0.60 | | | 7.30 | |
| 1DT11 | | | 3.70 | | | | 37.00 | 35.00 |
| 1DT21 | | | 16.70 | | | | 16.70 12.50 | 25.00 |
| 1DT54 1DT63 | | | | | | | 14.30 | |
| 1WD73 | | | | | | | 43.20 | |
| 1WD482 | | | 0.10 | | | | 51.50 | |
| 1WD495 | | | | | | | 20.50 | |
| 1WD538 | | | | | | | 12.50 | |
| 1WD450 | | | | | | | 42.60 | |
| 1WD503 | | | | | | | 47.00 | |
| 1WD109 | | | 3.60 | | | | 24.80 | |
| 11UR142 | | | 41.20 | | | | 49.00 | 4.00 |
| 11UR136 11HE139 | | 2.50 | 41.30 17.50 | | | | 16.20 37.50 | 250 |
| 11AN38 | | 2.50 | 76.00 | | 4.00 | 2.00 | 6.00 | 2.50 |
| 1SM243 | | | 26.10 | | 4.50 | 2.00 | 27.90 | 13.50 |
| 1RK4 | | | | | | | 31.30 | 10.30 |
| 1SM325 | 0.10 | 0.10 | 17.00 | 1.90 | 2.40 | | 35.80 | 8.80 |
| 1TT769 | | | 10.20 | | 2.60 | 1.00 | 10.20 | 3.60 |
| lickory Creek #2 | | | 49.30 | 0.70 | 4.30 | | 12.10 | 6.40 |
| 1WD75 | | | | | | | 91.70 | |
| 11WD524 | | | 68.90 | | | | 3.30 | |
| 1RA48 1WD74 | | | 1.60 11.10 | | | | 68.20 84.20 | |
| 1WD74 1RR15 | | | 11.10 | | | | o+.2U | |
| 1RR204 | | | | | | | | 2.70 |
| | 0.30 | | 67.00 | 2.40 | 0.30 | | 8.10 | |
| 1CP55 | **** | | 66.70 | - | | 4.80 | 4.80 | |
| | | | | | | | | |
| 11UR271 11CE19, Village | | | | | | | 32.10 | 9.90 |
| 11CP55 11UR271 11CE19, Village 11CE19, Md. A 11CE19, Md. B | | | | | | | 32.10 35.40 34.80 | 9.90 21.00 14.90 |

Table 1. East Texas Caddo ceramic sherd database, cont.

| Trinomial | DMUWneck banded | DMUWpinched | DMUWtool punctated | DMUWfingernail punctate | d DMUWcircular punctated | DMUWcane punctate | ed DMUWridged | DMFengpunct | t. DMFWengraved D | MFWengraved-applic |
|------------------------------|-----------------|--------------|--------------------|-------------------------|--------------------------|-------------------|---------------|-------------|-------------------|--------------------|
| 41SA123 | | | | | | | | | 11.00 | |
| 1SB8 1SA69 | | | | | | | | | 3.90 | |
| ISA116 | | | | | | | | | 13.90 | |
| 1BW3 | 1.70 | | 4.40 | | | | | 2.20 | 39.50 | 0.30 |
| 1UR118 | 0.30 | | 12.10 | 0.90 | | | | | 18.80 | |
| 1UR133 | | 0.60 | 4.20 | 0.20 | | | | | 11.40 | |
| 1UR106 | 0.40 | 0.70 | 9.40 | 1.40 | | | | | 16.30 | |
| 1UR130 1UR109 | | | 5.80 4.20 | | | | | | 19.20 | |
| 1UR105 | | | 9.00 | 7.20 | | | | | 22.00 | |
| 1UR116 | | 1.10 | 9.10 | 9.10 | | | | | 20.50 | |
| 1UR114 | | | 8.20 | | | | | | 18.40 | |
| 1BW553 | | 1.40 | | | | | | | 10.70 | |
| 1TT670 1HS240 | | | 1.00 | 29.60 | | | | | 4.10 2.20 | |
| 1CP408 | | | 7.80 | 10.20 | | 0.80 | | 0.80 | 28.10 | |
| 1NA231 | 0.40 | 1.30 | 10.60 | 0.80 | 0.50 | 0.60 | | 0.00 | 17.60 | |
| 1NA235 | | 1.30 | 6.90 | 0.60 | 0.10 | 0.20 | | | 9.00 | |
| 1NA236 | | 0.80 | 2.90 | 0.70 | | | | 0.10 | 2.40 | |
| 1NA242 | | 3.30 1.10 | 18.00 8.70 | 1.00 7.60 | 0.60 1.10 | 1.50 0.10 | | 0.30 | 12.40 20.60 | |
| 1NA285 1NA338 | 0.40 | 1.10 | 8.70 | 7.00 | 1.10 | 0.10 | | | 15.90 | |
| 1NA21 | 0.40 | | | | | | | | 14.90 | |
| 1NA304 | | | | | | | | | 17.50 | |
| 1NA303 | | | | | | | | | 27.40 | |
| 1HP106 | | | 10.70 | 2.40 | 2.70 | | | 0.60 | 10.80 | |
| 1RK170 1CP304 | 2.30 | 0.10 | 16.00 4.20 | 7.70 2.10 | 0.60 | 5.50 | | 0.10 | 22.00 19.40 | |
| 1CP304 1HS15 | 2.30 | 2.40 | 4.20 | 3.60 | | | 0.70 | 0.10 | 8.10 | |
| 1NA49 | | 0.10 | 7.70 | 1.40 | | | **** | 0.20 | 6.10 | |
| 1HE70 | | 3.00 | 28.90 | 3.00 | | | | | 10.20 | |
| 1VN6 | 0.60 | 0.60 | 17.70 | | | | | | 8.00 | |
| 1DT1 15M72 | | | 15.70 2.40 | 21.50 33.50 | | | | | 17.60 0.60 | |
| 1SM73 1SM74 | | 12.10 | 2.40 | 33.30 | | | | | 4.40 | |
| 1SM76 | | 12.10 | | 8.90 | | | | | 5.60 | |
| 1SM82 | | | | | | | | | 9.30 | |
| 1SM87 | | | | | | | | | 28.60 | |
| 1SM89 | | | 1.10 | 1.10 | | | | | 11.60 | |
| 1SM90 1SM91 | | 1.10 | | | | | | | 17.30 3.90 | |
| 151V151 1HE22 | 0.40 | 1.80 | | | | | | | 7.00 | |
| 1CE39 | | | | | | | | | 4.40 | |
| 1WD529 | 14.40 | | 0.20 | 2.80 | | | | | 41.60 | |
| 1WD51 | 26.00 | | | | | | 0.70 | | 40.10 | |
| 1HE114 | 0.20 | 1.60 | 4.20 | 22.00 | | | | | 5.60 | |
| 1HP175 1RA5 | | 0.40 1.60 | 1.20 | 22.00 | | | | | 32.50 77.80 | |
| 1BW5 | | 1.00 | | | | | | | 41.50 | |
| 1HS16 | | | 4.50 | 3.40 | | | | | 8.00 | |
| 1SA83 | | 1.20 | | | | | | | 8.60 | |
| 1LR1 | | | | | | | | | 53.00 | |
| 1RA8 1GG33 | | | | 5.00 | | | | | 13.80 3.80 | |
| 1RK3 | | | | 2.50 | | | | | 26.60 | |
| 1BW169 | 4.00 | | 3.00 | | | | | | 46.40 | |
| 1BW716 | | | | | | | | | 36.80 | |
| 1PN175 | | | 3.00 | 2.40 | 0.30 | 0.30 | | | 7.80 | |
| 1CP20 1RK19 | | | | | | | | | 16.10 1.90 | |
| 1RK19 1RK30 | | | | | | | | | 2.90 | |
| 1RK39 | | | | | | | | | 2.10 | |
| 1SM54 | | 1.10 | 11.10 | 3.30 | | | | | 14.40 | |
| 1HP1 | | | 2.60 | | | | | | 74.40 | |
| 1TT13 | 3.90 | 3.40 | 2.70 | 11.00 | | | | | 57.30 | |
| 1DT11 1DT21 | | | 3.70 | 14.80 8.30 | | | | | 14.80 8.30 | |
| 1DT54 | | | 6.30 | 0.50 | | | | | 0.50 | |
| 1DT63 | | | 12.50 | 50.00 | | | | | | |
| 1WD73 | | | | | | | | | 8.90 | |
| 1WD482 | 0.10 | | | | | | | | 17.70 | |
| 1WD495 | 4.80 | | | | | | | | 43.30 | |
| 1WD538 1WD450 | 3.00 | | | | | | | | 47.50 26.50 | |
| 1WD503 | 4.40 | | | | | | | | 26.50 | |
| 1WD109 | 2.60 | | | | | | | | 44.80 | |
| 1UR142 | | | | 18.00 | | | | | 24.00 | |
| 1UR136 | 3.20 | | 45.00 | | | | | | 19.00 | |
| 1HE139 1AN38 | 2.50 | | 15.00 4.00 | 2.50 | | | | | 12.50 8.00 | |
| 1SM243 | | 1.80 | 1.80 | 6.30 | | | | | 18.00 | |
| 1RK4 | | | 4.60 | 32.10 | | | | | 21.90 | |
| 1SM325 | | 0.40 | 14.90 | 0.70 | | 0.70 | | | 16.30 | |
| 1TT769 | 6.60 | | 26.00 | 1.00 | 1.50 | | | | 16.30 | |
| lickory Creek #2 | | 1.40 | | | | | | | 17.90 | |
| 1WD75 1WD524 | | | | | | | | | 10 00 | |
| 11WD524 11RA48 | | | | | | | | | 18.90 7.90 | |
| 1WD74 | | | | | | | | | 4.60 | |
| 1RR15 | 4.20 | | | | | | | | ** | |
| 1RR204 | 52.00 | | | | | | | | 4.30 | |
| 1CP55 | 0.30 | | 3.60 | | | | | | 15.70 | |
| 1UR271 | 4.40 | 1.00 | 0.40 | 24.00 | | | | | 14.30 | |
| 1CE19, Village | 1.10 | 1.80 | 0.10 | 24.00 | | | | | 26.90 | |
| 1CE19, Md. A 1CE19, Md. B | 2.10 0.80 | | | 10.00 23.10 | | | | | 31.40 26.50 | |
| | 0.00 | | | _5.20 | | | | | | |

Table 1. East Texas Caddo ceramic sherd database, cont.

| Trinomial | DMFWengraved-brushed | DMFWred-slipped [| OMFWtrailed | Other decorative method | No. of decorated sherds | Reference | Estimated age |
|----------------------------|----------------------|-------------------|-------------|-------------------------|-------------------------|--|--|
| 41SA123 | | | | | 1033 | Jelks 1965 | ca. A.D. 1400-1680 |
| 41SB8 | | | | | 180 | Jelks 1965 | ca. A.D. 1400-1680 |
| 41SA69 | | | | | 70 | Jelks 1965 | ca. A.D. 1200-1400 |
| 41SA116 | | | | | 1193 | Jelks 1965 | ca. A.D. 1400-1680 |
| 41BW3 | | | 17.20 | | 362 330 | Perttula 2005c Nichols et al. 1997 | ca. A.D. 1300-1650 |
| 41UR118 41UR133 | | | | | 474 | Nichols et al. 1997 Nichols et al. 1997 | ca. A.D. 1430-1550 ca. A.D. 1300-1550 |
| 41UR133 41UR106 | | | | | 276 | Nichols et al. 1997 Nichols et al. 1997 | ca. A.D. 1300-1550 |
| 41UR130 | | | | | 52 | Nichols et al. 1997 | ca. A.D. 1430-1550 |
| 41UR109 | | | | | 142 | Nichols et al. 1997 | ca. A.D. 1430-1550 |
| 41UR105 | | | | | 322 | Nichols et al. 1997 | ca. A.D. 1200-1550 |
| 41UR116 | | | | | 263 | Nichols et al. 1997 | ca. A.D. 1200-1550 |
| 41UR114 | | | | | 49 | Nichols et al. 1997 | ca. A.D. 1430-1550 |
| 41BW553 | | | | | 74 | Largent et al. 1997 | ca. A.D. 1200-1500 |
| 41TT670 | | | | | 98 | Largent et al. 1997 | ca. AD. 1000-1200 |
| 41HS240 | | | | | 45 | Perttula and Nelson 2002a | ca. A.D. 1300-1400 |
| 41CP408 41NA231 | 0.10 | 4.70 | | | 128 834 | Sherman 2004 Perttula 2008b | ca. A.D. 1200-1400 ca. A.D. 1200-1400 |
| 41NA235 | 0.10 | | | | 1263 | Perttula 2008b | ca. A.D. 1400-1650 |
| 41NA236 | | | | | 1060 | Perttula 2008b | ca. A.D. 1400-1650 |
| 41NA242 | | 0.10 | | | 1063 | Perttula 2008b | ca. A.D. 1200-1400 |
| 41NA285 | | 0.10 | | | 1132 | Perttula 2008b | ca. A.D. 900-1300 |
| 41NA338 | | | | 0.7 [Grooved] | 283 | Jackson et al. 2012 | ca. A.D. 1720-1730 |
| 41NA21 | | | | 1.4]Grooved] | 888 | Jackson et al. 2012 | ca. A.D. 1680-1730 |
| 41NA304 | | | | | 486 | Jackson et al. 2012 | ca. A.D. 1750-1830 |
| 41NA303 | | | | | 462 | Jackson et al. 2012 | ca. A.D. 1200-1800 |
| 41HP106 | | | 0.70 | 0.2 [CCI] | 619 | Perttula 1999 | ca. A.D. 1000-1400 |
| 41RK170 | | 0.30 | | 0.8 [Lip notched] | 651 | Perttula and Nelson 2003a | ca. A.D. 1150-1400 |
| 41CP304 | | 7.10 | | | 3952 | Perttula 2005d | ca. A.D. 1430-1600 |
| 41HS15 | | 0.70 | | | 7588 | Fields and Gadus 2012 | ca. A.D. 1350-1650 |
| 41NA49 | | | | | 1944 | Perttula 2009f | ca. A.D. 1200-1450 |
| 41HE70 | | | | | 166 | Story 1965 | ca. A.D. 1430-1600 |
| 41VN6 | | | | | 175 | Johnson 1962 | ca. A.D. 1400-1650 |
| 41DT1 | | 0.50 | 0.50 | | 51 | Johnson 1962 | ca. A.D. 900-1200 |
| 41SM73 | | 0.60 | 0.60 | | 167 91 | Johnson 1961 Johnson 1961 | ca. A.D. 1400-1650 |
| 41SM74 41SM76 | | | | | 90 | Johnson 1961 | ca. A.D. 1400-1650 ca. A.D. 1400-1650 |
| 41SM82 | | | | | 75 | Johnson 1961 | ca. A.D. 1400-1650 |
| 41SM87 | | 2.90 | | | 35 | Johnson 1961 | ca. A.D. 1400-1650 |
| 41SM89 | | 1.10 | | | 95 | Johnson 1961 | ca. A.D. 1400-1650 |
| 41SM90 | | 1.10 | | | 81 | Johnson 1961 | ca. A.D. 1400-1650 |
| 41SM91 | | | | | 179 | Johnson 1961 | ca. A.D. 1400-1650 |
| 41HE22 | | | | | 228 | Johnson 1961 | ca. A.D. 1400-1650 |
| 41CE39 | | | | | 113 | Johnson 1961 | ca. A.D. 1400-1650 |
| 41WD529 | | 16.50 | | | 932 | Perttula and Skiles n.d. | ca. A.D. 1430-1600 |
| 41WD51 | | 11.60 | | | 147 | Perttula and Skiles n.d. | ca. A.D. 1430-1680 |
| 41HE114 | | | | | 827 | Shafer 1981 | ca. A.D. 1400-1650 |
| 41HP175 | | 20.00 | | 0.6 [Cord impressed] | 514 | Fields et al. 1994a | ca. A.D. 1400-1500 |
| 41RA5 | | | | | 63 | Duffield and Jelks 1961 | ca. A.D. 1760-1830 |
| 41BW5 | | 2.80 | 3.20 | | 468 | Miroir et al. 1973 | ca. A.D. 1700-1730 |
| 41HS16 | | 0.50 | | 1.1 [Lip notched] | 88 | Webb et al. 1969 | ca. A.D. 900-1400 |
| 41SA83 | | 0.60 | | | 510 | Davis and Horn 1964 | ca. A.D. 1450-1600 |
| 41LR1 41RA8 | | | | 1.7 [Lip notched] | 1450 58 | Harris et al. 1965 Duffield 1961 | ca. A.D. 1700-1730 ca. A.D. 1200-1400 |
| 41GG33 | | | | 1.7 [Lip Hotcheu] | 80 | Jones 1957 | ca. A.D. 1200-1400 |
| 41RK3 | | | | | 79 | Jones 1968 | ca. A.D. 1700-1830 |
| 41BW169 | | | 15.20 | 3.0 [Trailed-Incised] | 99 | Sundermeyer et al. 2008 | ca. A.D. 1500-1680 |
| 41BW716 | | | | (| 19 | Sundermeyer et al. 2008 | ca. A.D. 1650-1680 |
| 41PN175 | | 0.30 | | | 296 | Cliff and Perttula 2002 | ca. A.D. 1200-1450 |
| 41CP20 | | 9.70 | | | 31 | Hunt et al. 1996 | ca. A.D. 1430-1680 |
| 41RK19 | | | | | 104 | McDonald 1972 | ca. A.D. 1200-1450 |
| 41RK30 | | | | | 35 | McDonald 1972 | ca. A.D. 1200-1450 |
| 41RK39 | | | | | 48 | McDonald 1972 | ca. A.D. 1200-1450 |
| 41SM54 | | 38.90 | | | 90 | Perttula and Walker 2008 | ca. A.D. 1200-1450 |
| 41HP1 | | | | | 39 | Scurlock 1962 | ca. A.D. 1550-1680 |
| 41TT13 | | 6.20 3.70 | 1.70 | | 178 | Rogers et al. 2003 Gadus et al. 1992 | ca. A.D. 1550-1680 |
| 41DT11 41DT21 | | 3.70 | | | 27 12 | Gadus et al. 1992 Gadus et al. 1992 | ca. A.D. 900-1200 ca. A.D. 900-1200 |
| 41DT54 | | 25.00 | | | 16 | Gadus et al. 1992 Gadus et al. 1992 | ca. A.D. 900-1200 ca. A.D. 900-1400 |
| 41DT63 | | 25.00 | | | 8 | Gadus et al. 1992 | ca. A.D. 1200-1400 |
| 41WD73 | | 5.60 | | | 213 | Bruseth and Perttula 1981 | ca. A.D. 1200-1400 |
| 41WD482 | | 7.40 | | | 2490 | Bruseth and Perttula 1981 | ca. A.D. 900-1200 |
| 41WD495 | | 2.20 | | | 229 | Bruseth and Perttula 1981 | ca. A.D. 1430-1680 |
| 41WD538 | | 7.50 | | | 40 | Bruseth and Perttula 1981 | ca. A.D. 1430-1680 |
| 41WD450 | | 5.90 | | | 68 | Bruseth and Perttula 1981 | ca. A.D. 1000-1200 |
| 41WD503 | | 5.50 | | | 181 | Bruseth and Perttula 1981 | ca. A.D. 1000-1200 |
| 41WD109 | | 3.30 | | 2.0 [CCI] | 306 | Bruseth and Perttula 1981 | ca. A.D. 1200-1400 |
| 41UR142 | | 1.50 | | | 68 | Nelson et al. 1996 | ca. A.D. 1200-1400 |
| 41UR136 | | | | | 247 | Nelson and Perttula 1993 | ca. A.D. 1430-1600 |
| 41HE139 | | 5.00 | | | 40 | Cliff et al. 2004 | ca. A.D. 1000-1400 |
| 41AN38 | | | | | 50 | Perttula et al. 2007 | ca. A.D. 1450-1650 |
| 41SM243 | | | | | 111 | Walters 2006 | ca. A.D. 1200-1400 |
| 41RK4 | | 0.30 | | 0.4 [lin a - 1 - 1 - 1] | 681 | Bruseth and Perttula 2006 | ca. A.D. 980-1250 |
| 41SM325 | | 0.30 | | 0.1 [Lip notched] | 693 | Walters 2008 | ca. A.D. 1200-1400 |
| 41TT769 | | 13.30 | | | 196 | Perttula et al. 2010b | ca. A.D. 1430-1600 ca. A.D. 1300-1430 |
| Hickory Creek #2 41WD75 | | 9 20 | | | 140 | Perttula 2011a Bruseth and Perttula 1980 | |
| | | 8.30 | | | 12 90 | Bruseth and Perttula 1980 Bruseth and Perttula 1980 | ca. A.D. 1000-1300 |
| 41WD524 41RA48 | | 2.20 22.20 | | | 63 | Bruseth and Perttula 1980 Bruseth and Perttula 1980 | ca. A.D. 1430-1680 ca. A.D. 1000-1300 |
| 41KA48 41WD74 | | 44.40 | | | 108 | Bruseth and Perttula 1980 Bruseth and Perttula 1980 | ca. A.D. 1000-1300 ca. A.D. 1000-1200 |
| 41RR15 | | 95.80 | | | 24 | Reese 2001 | ca. A.D. 1400-1200 |
| 41RR204 | | 2.00 | | | 2051 | Kenmotsu 2005 | ca. A.D. 1400-1680 |
| 41KK2U4 41CP55 | | 2.00 | | | 332 | Perttula et al. 2014a | ca. A.D. 1400-1660 |
| | | | | | 21 | Campbell 2001 | ca. A.D. 1430-1530 |
| | | | | | | p | |
| 41UR271 | | 1.60 | | | 2220 | Stokes and Woodring 1981 | ca. A.D. 900-1300 |
| | | 1.60 | | | 2220 10654 | Stokes and Woodring 1981 Stokes and Woodring 1981 | ca. A.D. 900-1300 ca. A.D. 900-1300 |

Table 1. East Texas Caddo ceramic sherd database, cont.

| Trinomial | Tgrog | Tbone | Tshell | Tgrog-bone | Psandy | Freduced | Foxidized | Finc-oxidized | Fred-oxidize | d Rfdirect | Rfinverted | d Rfeverted | Lfrounde | d Lfflat I | Lfrounded-folded | Lfbeveled Pre | d Pwhite | • DMUWappliqued |
|--------------------|-----------------|----------------|--------------|----------------|--------------|----------------|----------------|---------------|----------------|------------|------------|-------------|----------------|----------------|------------------|---------------|----------|-----------------|
| 41AN1 | | | | | | | | | | | | | | | | | | |
| 41AN2 41AN8 | | | | | | | | | | | | | | | | | | |
| 41AN8 41AN23 | | | | | | | | | | | | | | | | | | |
| 41AN32 | | | | | | | | | | | | | | | | | | |
| 41CE3 | | | | | | | | | | | | | | | | | | |
| 41CE4 41CE8 | | | | | | | | | | | | | | | | | 1.30 | |
| 41AN38 | 82.70 | 4.30 | | 12.70 | 0.60 | 18.20 | 12.90 | 11.50 | 53.50 | 63.40 | 2.90 | 10.10 | 53.40 | 33.00 | 10.40 | 3.20 1.9 | | 0.30 |
| 41LR170 | 92.20 | 2.00 | | 5.90 | 4.20 | | | | | | | | | | | | | |
| 41LR186 41LR187 | 76.60 74.10 | 6.40 8.10 | 0.40 | 12.80 17.10 | 4.30 0.40 | 25.10 | 9.30 | 19.00 | 46.50 | | | | | | | | | 2.40 |
| 41NA27 | 82.70 | 0.10 | 0.40 | 17.30 | 0.40 | 23.10 | 5.50 | 15.00 | 40.50 | | | | | | | | | 0.50 |
| 41CP10 | | | | | | | | | | | | | | | | | | 4.30 |
| 41DT80 | 78.80 | 0.90 | 5.90 | | 14.40 | | | | | | | | | | | | | 2.80 |
| 41DT124 | 89.60 | 8.60 | 0.40 | | 1.40 | | | | | | | | | | | | | 2.80 |
| 41RR48 | 72.00 | 0.90 | | 20.60 | 6.50 | | | | | | | | | | | | | |
| 11LR60 | 75.00 | 4.00 | 16.00 | 2.00 | 8.00 | | | | | | | | | | | | | 11.80 |
| 1LR39 | 74.40 | 1.10 | 0.30 | 23.70 | 0.60 | | | | | | | | | | | | | |
| 1RK19 | | | | | | | | | | | | | | | | | | |
| 1RK21 1RK32 | | | | | | | | | | | | | | | | | | 1.70 |
| 1RK36 | | | | | | | | | | | | | | | | | | 1.70 |
| 1RK39 | | | | | | | | | | | | | | | | | | |
| 1RK214 | 80.80 | 2.00 | | 16.80 | | 10.40 | 12.10 | 22.90 | 54.60 | 50.80 | 1.00 | 24.10 | 64.80 | 13.60 | 3.60 | 10.90 | | 0.20 |
| 11GG33 11GG33 | 75.60 45.40 | 10.50 27.30 | | 14.00 27.30 | | 36.10 24.20 | 3.60 21.20 | 2.40 6.10 | 57.40 45.50 | 74.70 | 10.30 | 8.00 | 92.00 | 4.60 | 3.50 | | | |
| 11SY92 | 45.40 | 27.50 | | 27.50 | | 2-1.20 | 21.20 | 0.10 | 45.50 | | | | | | | | | |
| 1AN51 | 86.30 | 13.70 | | | | | | | | | | | | | | | | 0.40 |
| 1CP71 | | | | | | | | | | | | | | | | 0.8 | 0.40 | 1.90 |
| 1HS74 | 75.80 | 20.00 | | | 4.20 | | | | | | | | | | | | | 1.90 |
| 11BW5 | 26.70 | 2.20 | 68.60 | 0.20 | 2.30 | | | | | | | | | | | | | |
| 1LR2 | 51.40 | 6.20 | 10.20 | | 32.20 | | | | | | | | | | | | | 3.10 |
| 1RR14 | 42.40 | 0.30 | 40.00 | 8.10 | 9.40 | 30.60 | 7.70 | 8.00 | 52.70 | | | | | | | | | 5.60 |
| 11RR16 | 63.20 | 3.00 | 4.60 | 29.10 | | | | | | | | | | | | | | 4.60 |
| 1RR16 | | | 100.00 | | | | | | | | | | | | | | | 14.30 |
| 1RR11 1RR11 | | | 100.00 | | | | | | | | | | | | | | | 6.00 2.80 |
| 1RR236 | 39.70 | | 60.30 | | | | | | | | | | | | | | | 24.10 |
| 1RR248 | | | 100.00 | | | | | | | | | | | | | | | 3.80 |
| 1RR290 | 61.90 | 1 20 | 38.10 | 0.20 | | 22.20 | 11 10 | 9.00 | 40.00 | | | | | | | | | 2.20 |
| 1BW3 1TT672 | 88.70 83.30 | 1.30 3.30 | 1.80 | 8.20 6.70 | 6.70 | 32.30 24.20 | 11.10 16.10 | 8.00 19.40 | 48.80 40.30 | | | | | | | | | 2.30 |
| 1NA49 | 45.80 | 5.90 | 0.10 | 48.20 | 0.30 | | | | | | | | | | | | | 0.30 |
| 1HO50 | 77.40 | | | 22.60 | | | | | | 30.00 | 10.00 | 60.00 | 89.50 | 10.50 | | | | |
| 11TT653 11RR16 | 64.10 92.90 | 7.10 | | 35.90 | | 34.20 | 19.50 | 30.50 | 21.90 | | | | | | | | | 1.30 |
| 11RR16 | | | 100.00 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 1CE19 1DT16 | 72.40 | 8.60 | 0.50 | 5.90 | | | | | | | | | | | | | | 0.10 |
| 1MR2 | | | | | | | | | | | | | | | | | | 7.20 |
| 1UR11 | | | | | | | | | | | | | | | | | | 0.40 |
| 1MR12 1MR1 | | | | | | | | | | | | | | | | | | 0.70 0.50 |
| 1UR30 | 74.70 | 4.40 | | 20.90 | | 23.70 | 9.70 | 4.30 | 60.40 | 100.00 | | | 80.00 | 20.00 | | | | 1.30 |
| 1TT653 | 77.90 | 8.20 | | 4.10 | 2.10 | 16.00 | 17.60 | 11.50 | 45.50 | | | | | | | | | 2.40 |
| 1RK214 1RK215 | 85.50 100.00 | 0.90 | | 0.90 | 12.80 | | | | | | | | | | | | | 1.80 |
| 1RK216 | 95.50 | | | | 4.50 | | | | | | | | | | | | | |
| 1NA235 | | | | | | | | | | | | | | | | | | 1.00 |
| 1NA236 1NA244 | | | | | | | | | | | | | | | | | | |
| 11NA244 11NA248 | | | | | | | | | | | | | | | | | | |
| 1NA264 | | | | | | | | | | | | | | | | | | |
| 1NA285 | | | | | | | | | | | | | | | | | | |
| 11NA243 11NA247 | | | | | | | | | | | | | | | | | | |
| 11CP257 | | | | | | | | | | | | | | | | | | |
| 1CP272 | | | | | | | | | | | | | | | | | | 1.10 |
| 1FK107 1TT804 | | | | | | | | | | | | | | | | | | 0.60 9.10 |
| 111804 1TT310 | 72.00 | 28.00 | | | | 34.00 | 8.60 | 22.30 | 35.00 | | | | | | | 3.4 |) | 9.10 |
| 1HS573 | 48.00 | 29.00 | 0.30 | 21.00 | 0.30 | | | | | | | | | | | | - | 10.10 |
| 1HS574 | 57.00 | 20.00 | | 17.00 | | | | | | | | | | | | | | 15.20 |
| 1HS843 1HS844 | 38.00 63.00 | 36.00 11.00 | 6.60 0.60 | 16.00 25.00 | | | | | | | | | | | | | | 9.10 1.60 |
| 1HS846 | 70.00 | 13.00 | 0.00 | 16.00 | 0.60 | | | | | | | | | | | | | 3.00 |
| 1HS588 | 58.90 | 3.40 | 2.60 | 35.00 | | | | | | | | | | | | | | 0.80 |
| 11FT425 11DT11 | 64.00 | 19.00 13.90 | 0.10 3.00 | 13.00 13.80 | 3.00 4.60 | | | | | | | | 78.50 35.70 | 20.40 50.00 | 1.10 10.70 | | | |
| 1DI11 1NA60 | 63.00 89.40 | 3.40 | 0.40 | 13.80 5.30 | 1.50 | 7.90 | 19.00 | 21.40 | 39.40 | 48.90 | 6.70 | 44.60 | 78.60 | 13.20 | 10.70 8.30 | | 0.30 | 0.10 |
| 1TT372 | 83.20 | 1.10 | 2.40 | 14.60 | 1.10 | 17.30 | 16.50 | 32.50 | 33.80 | .5.50 | 2.70 | . 1.00 | . 5.00 | | 50 | | 5.50 | 5.20 |
| 1CE354 | 100.00 | | | | | | | | | | | | | | | | 1.30 | |
| 1CE354 | 96.00 | 0.90 | | 2.70 | 1.30 | 14.50 | 27.70 | 21.10 | 36.60 | 66.70 | 9.10 | 24.20 | 70.60 | 23.50 | 5.90 | | 0.60 | 1.10 |
| 1LR11 1LR31 | 69.20 | | | 27.20 | 3.50 | | | | | | | | | | | | | 1.80 |
| 1MX5 | 29.00 | 14.00 | | | 49.00 | | | | | 97.60 | | 2.50 | 48.40 | 37.50 | 14.10 | 0.20 | 0 | 9.90 |
| 1HO91 | 84.60 | 5.10 | | 7.70 | 2.60 | 15.40 | 20.50 | 12.80 | 51.30 | | | | | | | | | |
| 1CE461 1NA15 | 80.30 | 8.20 | 0.40 | 10.70 | 0.40 | 10.90 | 12.90 | 12.90 | 60.00 | | | | | | | | | 1.00 |
| 11HO263 | 72.90 | 6.30 | 5.40 | 18.80 | 2.10 | 2.00 | 14.00 | 6.00 | 78.00 | | | | | | | | | 1.00 |
| 11NA321 | 80.60 | 6.50 | | 12.90 | | 13.30 | 20.00 | 11.70 | 55.00 | | | | | | | | | 1.30 |
| | | | | | | | | | | | | | | | | | | |

Table 1. East Texas Caddo ceramic sherd database, cont.

| March 1988 | Trinomial | DMUWappliqued-brushed | DMUWappliqued-incised D | MUWappliqued-punctat | ed DMUWbrushed DI | MUWbrushed-incised | DMUWbrushed-punctated | DMUWbrushed-applique | ed DMUWincised DI | MUWincised-punctate |
|--|-----------|-----------------------|-------------------------|----------------------|-------------------|--------------------|-----------------------|----------------------|-------------------|---------------------|
| March | | | | | 11.80 | 4.40 | 16.20 | | | |
| March Marc | | | | | | | | 2.40 | | |
| The state 100 | | | | | | 1.90 | 2.80 | | 2.80 | 0.90 |
| NEXES | | | | | | | 1 90 | | 1 90 | |
| THE COLOUR STATE OF THE CO | | | | | | 1.70 | | | 1.50 | |
| MANUBIN | | | | | | | | | | |
| Mile | | | | | | | | | | |
| March 1.00 | | | 0.04 | | 35.60 | 1.80 | 1.70 | 0.10 | | 5.60 |
| 1400 | | | | | | | | | | 11 10 |
| 1842 140 | | | | | 2.40 | | | | | |
| 140 | | | | | | 0.60 | | | | |
| 1987 1987 1988 | 41CP10 | | | | | | | | 23.40 | |
| 1987 1987 1988 | | | | | | | | | | |
| HEADED | | | 1.40 | | | | | | | 17.00 |
| 1985 | | | | | | | | | | |
| 1988 | | | | | | | | | | |
| 1988 | | | | | | | | | | |
| 1982 | | | | | | | | | | 5.50 |
| MINISTED | | | | 0.20 | | 0.10 | 0.20 | 0.50 | | |
| State | | | | | | | | | | 1.70 |
| State | | | | | | | | | | 1.70 |
| March Marc | | | | | | | | | | 3.10 |
| 19633 1968 1969 1 | | 1.10 | 0.10 | 0.03 | | 0.40 | 4.80 | | | |
| 18702 7,00 1 | | | | | | | | | 66.40 | 14.40 |
| 13405 9.00 1 | | | | | | 13.90 | 2.50 | 9.20 | 40 == | 0.67 |
| 14.00 15.0 | | | | 0.10 | | 0.30 | | | | |
| 1879 | | | 0.70 | 0.10 | | | 2.70 | 0.50 | | |
| 13195 1400 1 | 0.,1 | | 0.70 | | 77.70 | -1.50 | 2.70 | 0.50 | 13.50 | 1.40 |
| MARTINA 1,000 | | | | | | | 0.10 | 0.10 | | 7.80 |
| 130 1 | 41BW5 | | 0.20 | | | | | | 41.20 | |
| 18815 150 | 11LR2 | | | | | | | | 36.30 | |
| 19816 1.50 1 | 410014 | | | | 0.30 | | | | 7.00 | |
| STATE | | | | | 0.30 | | | | | 6.40 |
| SIMPLI | | | | | | | 0.10 | | | |
| HINDEL HEAVER SET | | | 0.70 | 1.50 | | | 0.10 | | | |
| 18828 | | | | | 8.30 | | | | | |
| HIRPAPO | | | | | | | | | | |
| 18W9 1.00 | | | | 1.30 | | | | | | 4.50 |
| ### PATHON PATHO | | | | | 4.00 | 0.20 | | 0.30 | | 2.20 |
| 1814490 | | | | | | | | 0.30 | | |
| 141050 | | | | | | | 2.40 | | | |
| 14TPGS3 | | | | | | | | 1.20 | | |
| 410E19 41CE19 41CE19 | | | | | | | 1.90 | | | |
| 1.60 | | | | | | | | | | |
| 410716 410716 410717 41 | 41RR16 | | | | 0.70 | | | | 2.70 | 1.20 |
| 44DT16 44MR2 | 41CE10 | | | | 1.60 | | | | 42.70 | E 90 |
| MANPE | | | | | 1.00 | | | | | 3.80 |
| 41MR11 0.50 50.80 4.80 6.20 12.80 3.00 41MR12 4.80 7.00 4.50 1.50 8.80 0.60 41MR14 0.40 0.30 70.00 2.40 0.80 0.20 15.80 3.30 41MR215 1.10 0.40 42.60 2.40 0.80 0.20 15.80 3.30 41MR216 1.10 0.40 42.60 2.40 0.80 0.20 15.80 3.30 41MR216 1.10 0.40 42.60 3.30 1.00 15.90 3.50 41MR216 1.00 3.64 9.70 7.20 1.00 19.50 2.10 41MR216 0.70 67.00 3.40 3.40 1.50 | | | | | 5.40 | | 11.70 | 6.40 | | |
| 41MR1 0,40 0,30 70.00 4.50 1.50 8.80 0.00 41HR33 1,10 0.40 42.60 2.40 0.80 0.20 15.80 3.30 41HR315 1.0 0.40 42.60 4.70 1.00 1.50 2.810 2.80 41HR315 4.0 4.20 4.70 1.00 1.95 2.70 6.70 3.00 1.00 1.95 2.70 41HR326 0.70 6.70 3.60 9.70 7.20 1.00 1.95 2.70 41HR326 0.70 6.70 4.40 4.50 1.50 1.50 1.76 7.80 41HR326 0.70 7.20 4.00 1.50 1.50 1.76 7.00 41HR326 0.70 4.00 4.00 1.50 1.50 1.50 1.70 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.00 | | | 0.50 | | | | 4.80 | | | 3.00 |
| 41URSO 1.10 | | | | | | | | | | |
| 11163 1.10 | | | 0.40 | 0.30 | 70.00 | | 4.50 | 1.50 | | |
| 414K214 22.70 | | | 1.10 | 0.40 | 42.60 | 2.40 | 0.00 | 0.20 | | |
| 44N215 | | | 1.10 | 0.40 | | | 0.80 | 0.20 | | |
| MINISTANDA | | | | | | | | | | |
| 14141235 36.0 9.70 7.20 1.00 1.950 2.10 14141244 1.00 1.950 2.10 14141244 1.00 1.950 3.40 3.40 3.40 1.40 1.910 3.10 4180 4140 4.40 1.50 1.50 1.50 1.760 7.40 4180 4140 4.40 1.50 1.50 1.50 1.50 7.60 4.80 4140 4140 4.40 4.40 4.40 4.50 4.30 2.10 4.30 4.40 4. | | | | | | 3.30 | | | | |
| MINAZAM S.90 A.40 1.50 1.50 1.50 7.60 7.40 | 41NA235 | | | | | | | | | |
| 1411-1428 | | | 0.70 | | | | | | | |
| 1411-1426 | | | | | | | 1.50 | 1.50 | | |
| 1411A225 | | | | | | | 2.10 | | | 7.00 |
| 11112423 | | | | | 9.80 | | | | 29.40 | 7.40 |
| 1410257 1410277 1410277 14102 | 11NA243 | | | | 65.90 | 4.50 | 9.10 | | 9.10 | |
| 1410 | | | | | | 5.40 | 2.70 | | | 21.60 |
| 117807 117807 117808 117809 11 | | | | | | | 2.00 | | | 4.22 |
| 41TB04 4.50 1.50 1.60 41TB310 3.40 3.40 24.10 3.40 41H5573 65.80 4.70 0.70 2.40 41H5574 36.20 4.80 5.20 2.40 41H5844 37.20 5.20 2.80 1.50 9.80 1.71,10 4.50 41H5846 2.560 2.560 2.80 1.50 9.80 4.60 41H5858 0.10 6.610 2.80 1.50 9.80 4.60 41H745 2.70 0.50 2.80 1.50 9.80 4.60 41H745 2.70 0.50 2.80 1.50 9.80 4.60 41H7475 2.70 0.50 2.80 1.50 9.80 4.60 41H7475 2.70 0.50 2.80 0.30 3.50 2.90 0.30 3.70 0.30 3.80 11T1372 3.60 3.50 2.90 0.40 3.80 11C1254 3.60 2.50 2.90 0.40 3.80 1.60 3.60 1.10 3.60 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>3.30</td><td></td><td></td><td></td></td<> | | | | | | | 3.30 | | | |
| 41T110 41.40 3.40 4.70 3.40 3.40 4.70 0.70 | | | | | 1.90 | 4.50 | | | | J.4U |
| 41HS573 | | | | | 41.40 | | | | | 3.40 |
| 41HS574 41HS843 41HS844 41HS844 41HS846 41HS848 41HS888 41HS8888 41HS8888 41HS888888888888888888888888888888888888 | 41HS573 | | | | 65.80 | | | | | 0.70 |
| 14115844 37,20 23,00 0.80 14115866 0.10 63,10 2.80 1.50 9.80 4.60 1417425 2,70 0.50 2.80 1.50 9.80 4.80 1417171 2,70 0.50 0.90 0.30 5.20 0.30 4117472 0.70 19.20 4.40 0.70 34.70 0.30 4162854 7.00 7.30 5.50 2.90 0.40 3.80 41811 73.60 5.50 2.90 0.40 3.80 418141 66.70 3.30 3.90 2.60 7.70 41814091 66.70 2.80 7.70 2.60 7.70 418141 7.60 7.60 1.10 0.70 0.40 3.80 418141 7.60 7.60 3.90 2.90 0.40 3.70 3.60 418141 7.60 7.70 7.70 7.70 7.70 3.60 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70 7.70< | 41HS574 | | | | 36.20 | | | | 5.20 | 2.40 |
| 41HS86 0.10 2.60 2.80 1.50 9.80 4.60 41HT425 2.80 0.10 63.10 2.80 1.50 9.80 4.60 41HT425 3.00 3.00 4.80 41HT425 3.00 3.00 3.00 5.20 3.00 3.00 4.80 41HT425 3.00 3.00 5.20 3.00 3.00 5.20 3.00 3.00 41HT4727 3.70 3.70 3.00 41HT4727 3.70 3.70 3.70 3.70 3.70 3.70 3.70 3.7 | | | | | | | | | | |
| 41HSS8 0.10 63.10 2.80 1.50 9.80 4.60 41F425 2.70 0.50 | | | | | | | | | | |
| 41F1425 2.70 0.50 4.80 41DT11 42.90 7.10 41DT11 42.90 7.10 41DT17 7.230 2.10 0.90 0.30 5.20 0.30 41TT372 0.70 19.20 4.40 0.70 3.470 0.30 41CE354 7.10 1.30 1.30 7.90 3.80 41CR11 73.60 5.50 2.90 0.40 3.80 41LR31 41.00 4.00 3.90 4.90 4.90 41MM5 66.70 2.60 7.70 41CE461 83.70 1.10 0.70 0.40 6.00 0.30 41MM25 6.70 7.630 1.10 0.70 0.40 6.00 0.30 41MM263 4.91 9.10 4.00 6.00 0.30 | | | 0.10 | | | | 2 80 | 1 50 | | |
| 141011 | | | 0.10 | | | 0.50 | 2.00 | 1.30 | | |
| 1111460 0.05 72.30 2.10 0.90 0.30 5.20 0.30 111772 0.70 19.20 4.40 0.70 0.70 34.70 0.30 111772 0.70 19.20 4.40 0.70 0.70 34.70 0.30 11117372 0.79 0.40 0.79 0.40 0.79 0.40 0.79 0.40 0.79 0.40 0.79 0.40 0.79 0.40 0.79 0.40 0.79 0.40 0.70 0.40 0.70 0.40 0.70 0.40 0.70 0.40 0.70 0.40 0.70 0.40 0.70 0.40 0.70 0.40 0.70 0.40 0.70 0.40 0.70 0.40 0.70 | | | | | | | | | | |
| 41TT372 0.70 19.20 4.40 0.70 34.70 0.30 41CE354 71.10 1.30 1.30 7.90 3.80 41CE354 73.60 5.50 2.90 0.40 3.80 41CE354 31.60 3.60 3.60 3.60 3.60 41CE354 2.46.00 3.30 3.90 3.43 4.90 41MM5 66.70 2.60 7.70 41CE461 83.70 0.70 0.40 6.00 0.30 41MA15 6.70 9.10 1.270 3.60 41MC263 49.10 9.10 1.270 3.60 | 41NA60 | | 0.05 | | | | | 0.30 | 5.20 | 0.30 |
| 41CE354 73.60 5.50 2.90 0.40 3.80 41LR11 31.60 41LR31 2.46.0 3.90 3.90 3.43.0 4.90 41H051 66.70 2.60 7.70 3.00 2.00 41CE461 83.70 1.10 0.70 0.40 6.00 0.30 41H0263 49.10 9.10 1.270 3.60 | 41TT372 | | | 0.70 | 19.20 | 4.40 | 0.70 | | 34.70 | |
| 41R11 31.60 41R31 24.60 11M5 3.30 3.90 34.30 4.90 41H091 66.70 2.60 7.70 41CE461 83.70 2.00 2.00 41H015 76.30 1.10 0.70 0.40 6.00 0.30 41H0263 49.10 9.10 12.70 3.60 | | | | | | | | | | |
| 41LR31 41MX5 0.20 3.30 3.90 3.4.30 4.90 41HM091 66.70 2.60 7.70 41CE461 83.70 2.00 2.00 41HN15 76.30 1.10 0.70 0.40 6.00 0.30 41H0263 49.10 9.10 12.70 3.60 | | | | | 73.60 | 5.50 | 2.90 | 0.40 | | |
| 41MX5 0.20 3.30 3.90 34.30 4.90 41HO91 66.70 2.60 7.70 41CE461 83.70 2.00 41HA15 76.30 1.10 0.70 0.40 6.00 0.30 41H0263 49.10 9.10 12.70 3.60 | | | | | | | | | | |
| 11H091 66.70 2.60 7.70 11CE461 83.70 2.00 11H015 76.30 1.10 0.70 0.40 6.00 0.30 11H0263 49.10 9.10 12.70 3.60 | | | | 0.20 | 3 20 | 3 00 | | | | 4.00 |
| 11CE461 83.70 2.00 11NA15 76.30 1.10 0.70 0.40 6.00 0.30 11H0263 49.10 9.10 12.70 3.60 | | | | 0.20 | | 3.50 | | 2.60 | | 4.50 |
| 11NA15 76.30 1.10 0.70 0.40 6.00 0.30 11H0263 49.10 9.10 12.70 3.60 | | | | | | | | 2.00 | | |
| 49.10 9.10 12.70 3.60 | | | | | | 1.10 | 0.70 | 0.40 | | 0.30 |
| 41NA321 63.00 3.90 0.60 1.30 6.50 1.90 | 41HO263 | | | | 49.10 | | 9.10 | | 12.70 | 3.60 |
| | 11NA321 | | | | 63.00 | 3.90 | 0.60 | 1.30 | 6.50 | 1.90 |

Table 1. East Texas Caddo ceramic sherd database, cont.

| | DIVIOWNECK banded | DMUWpinched | DMUWtool punctated [| OMUWfingernail punctated [| DMUWcircular punctated | DMUWcane punctated | 1 DMUWridged | DMFengpunct. | DMFWengraved DN | IFWengraved-appli |
|--------------------|-------------------|-------------|----------------------|----------------------------|------------------------|--------------------|--------------|--------------|------------------------|-------------------|
| IAN1 | 8.80 | 2.90 | 7.30 | | | | | | 38.30 | |
| AN2 | 17.10 | | 7.30 | 7.30 | | | | | 39.00 | |
| N8 | 0.90 | 0.90 | | 1.90 | | | | | 25.90 | |
| AN23 | | 2.90 | | | | | | | 51.40 | |
| AN32 CE3 | | 6.70 | 1.90 | | | | | | 42.30 10.00 | |
| E4 | 2.70 | 6.70 | | | | | | | 18.70 | |
| E8 | 18.70 | 4.00 | 2.70 | | | | | | 45.30 | |
| AN38 | 0.10 | 0.40 | 10.40 | 0.50 | | 0.20 | | 0.40 | 20.70 | |
| R170 | | | | 9.10 | | 18.20 | | | 27.30 | |
| R186 | | 11.10 | | 11.10 | | | | | 33.30 | |
| R187 | | | 9.80 | 22.00 | | | | | 29.30 | |
| NA27 | 0.03 | 0.01 | 0.60 | 0.80 | | | | | 6.00 | |
| CP10 | | | | | | | | | 35.20 | |
| | | | | | | | | | | |
| DT80 | 8.50 | | 5.40 | 47.90 | 5.40 | | | 2.80 | 12.70 | |
| DT124 RR48 | | | 5.40 4.30 | 8.90 | 5.40 4.30 | | | 3.60 | 7.10 4.30 | |
| .R60 | | | 7.80 | 2.00 | 4.50 | | | | 2.00 | |
| | | | 7.00 | 2.00 | | | | | 2.00 | |
| R39 | | 2.60 | 13.20 | 0.90 | | | | 0.40 | 14.00 | |
| RK19 | 0.30 | 0.10 | 26.70 | 3.50 | | | | | 7.20 | |
| RK21 | | 0.70 | 8.90 | 0.70 | | | | | 6.70 | |
| RK32 | 1.70 | | 23.30 | 3.30 | | | | | 3.30 | |
| RK36 | | | 19.20 | | | | | | 7.70 | |
| RK39 | | | 10.30 | | | | | | 11.30 | |
| K214 | | 0.60 | 7.50 | 22.50 | 0.30 | 1.80 | | | 11.30 | |
| G33 | | 2.90 | 7.20 | 2.00 | | | | | 6.40 2.50 | |
| G33 Y92 | | | 1.30 | | | | | | 19.50 | |
| N51 | | 1.90 | 20.80 | 8.60 | 2.30 | 0.10 | | | 16.30 | |
| P71 | 0.50 | | 3.40 | | | | | 0.70 | 18.70 | |
| | | | | | | | | | | |
| HS74 | | | | 4.30 | | | | | 22.80 | |
| BW5 | | | 2.20 | 0.20 | | | | | 52.80 | |
| R2 | 16.50 | | | 10.00 | | | | | 24.40 | |
| | | | | | | | | | | |
| RR14 | 0.80 | | | | | | | | 51.60 | |
| R16 | 25.20 | | | | | | | | 13.20 | |
| R16 | 35.30 | | | | | | | | 21.70 | |
| R11 R11 | 8.30 | | | | | | | | 31.30 25.00 | |
| R236 | 6.50 | | | 13.80 | | | | | 10.30 | |
| R248 | 79.60 | | | 15.00 | | | | | 5.70 | |
| RR290 | | | | | | | | | 20.00 | |
| 3W3 | | | 2.00 | 0.30 | 1.00 | | | 1.00 | 43.00 | |
| T672 | | | 16.10 | 4.80 | | | | | 14.50 | |
| NA49 | | 0.60 | | | | | | 0.10 | 13.40 | |
| 1050 | | | | 1.20 | | | | | 7.10 | |
| TT653 | | | | | | | 1.90 | | 17.30 | |
| RR16 RR16 | 23.60 | | | | | | | | 0.60 29.80 | |
| IIII | 23.00 | | | | | | | | 25.00 | |
| CE19 | 0.40 | 0.40 | 0.40 | 3.70 | | | 0.30 | | 10.00 | |
| OT16 | | | | 11.80 | | | 5.90 | | 29.40 | |
| ∕IR2 | 0.60 | | 5.40 | | | 1.60 | | 0.10 | 37.90 | 0.10 |
| R11 | | 2.40 | 1.00 | 0.80 | | | | 0.20 | 9.10 | |
| ЛR12 | | | | | | | | | 32.80 | |
| /R1 | 0.10 | | | | | | 1.50 | | 7.40 | |
| JR30 | | 2.00 | 9.20 | 8.50 | 2.00 | | | | 34.70 | |
| T653 K214 | 0.90 | | 9.40 15.70 | 1.00 14.90 | 0.20 | 0.10 | | | 4.70 9.60 | 0.10 |
| K214 | | | | | | | | | 29.20 | |
| K215 K216 | | | 16.70 13.30 | 16.70 | 10.00 | | | 6.70 | 6.70 | |
| A235 | 0.50 | | 8.70 | 1.00 | | 1.00 | | | 10.80 | |
| A236 | | 0.70 | 1.40 | 0.70 | | ***** | | | - | |
| A244 | | | 7.40 | 13.20 | | 3.00 | | | 23.50 | |
| A248 | | | 4.80 | 4.80 | | | | | 26.50 | |
| A264 | | | 2.10 | 4.30 | 2.10 | | | | 6.40 | |
| A285 | | 1.60 | 8.20 | 7.40 | | | | | 32.80 | |
| A243 | | | 9.10 | E 40 | | 2.30 | | | 6.80 | |
| A247 P257 | 1.20 | | 8.10 13.00 | 5.40 13.00 | | | | | 16.20 23.50 | |
| P257 P272 | 2.20 | | 6.50 | 4.40 | | 1.10 | | | 15.20 | |
| K107 | 2.20 | | 7.00 | 54.10 | | 3.80 | | | 11.40 | |
| T804 | | | 4.50 | 45.40 | | ****** | | | 18.20 | |
| T310 | | | 3.40 | 17.20 | | | | | 6.90 | |
| S573 | | | 2.90 | 1.80 | | | 1.10 | | 12.30 | |
| S574 | | 3.30 | 23.90 | 1.40 | | | | | 21.00 | |
| \$843 | | | | | | | | | 29.30 | |
| S844 | | 0.80 | 5.00 | 10.70 | | | | | 20.70 | |
| S846 | 0.60 | 0.60 | 8.30 | 6.00 | | | | | 19.10 | |
| S588 | | 0.80 | 5.80 | 1.40 | | | 0.40 | | 9.70 | |
| T425 | | 1.60 | 8.10 | 27.00 | | | | | 29.70 | |
| T11 | 0.10 | 0.60 | 1.30 | 4.60 | 0.10 | | | | 35.70 | |
| IA60 T372 | 0.10 | | 1.50 8.10 | 0.10 8.80 | 0.10 | | | | 12.70 23.20 | |
| E354 | 1.30 | | 0.10 | 0.00 | | | | | 14.50 | |
| E354 E354 | 1.30 0.20 | | 0.60 | | | | | | 14.50 11.60 | |
| R11 | 0.20 | | 5.30 | 26.30 | | | | | 26.30 | |
| R31 | | | 5.50 | 8.80 | | | | | 14.00 | |
| 1X5 | 15.60 | | 1.20 | 3.10 | | | | | 19.10 | |
| | 13.00 | 2.60 | 5.10 | 5.10 | | | | | 15.40 | |
| | | 2.00 | 3.10 | | 2.00 | | | | 10.20 | |
| 091 | | | | | | | | | | |
| O91 E461 A15 | | 0.20 | 1.90 | | | | | 0.10 | 11.40 | |
| O91 E461 | 3.60 | 0.20 | 1.90 9.10 5.80 | 3.60 | 1.90 0.60 | | | 0.10 | 11.40 7.30 13.00 | |

Table 1. East Texas Caddo ceramic sherd database, cont.

| Trinomial | DMFWengraved-brushed | DMFWred-slipped Df | MFWtrailed | Other decorative method | No. of decorated sherds | Reference | Estimated age |
|--|----------------------|--|------------|--|---|--|---|
| 41AN1 | | | _ | | 68 | Perttula et al. 2011b | ca. A.D. 1400-1650 |
| 41AN2 | 4.90 | | | | 41 | Perttula et al. 2011b | ca. A.D. 1400-1650 |
| 41AN8 | | | | | 108 | Perttula et al. 2011b | ca. A.D. 1400-1720 |
| 41AN23 | | | | | 35 | Perttula et al. 2011b | ca. A.D. 1400-1650 |
| 41AN32 | | | | | 52 | Perttula et al. 2011b | ca. A.D. 1400-1650 |
| 41CE3 | | | | | 60 | Perttula et al. 2011b | ca. A.D. 1400-1650 |
| 41CE4 | | | | | 75 | Perttula et al. 2011b | ca. A.D. 1400-1650 |
| 41CE8 | | | | | 75 | Perttula et al. 2011b | ca. A.D. 1400-1650 |
| 41AN38 | 0.10 | 0.70 | | 0.04 [Lip notched] | 2572 | Perttula et al. 2011b | ca. A.D. 1400-1480 |
| 41LR170 | | | | | 11 | Mahoney 2001 | ca. A.D. 1000-1200 |
| 41LR186 | | | | | 9 | Mahoney 2001 | ca. A.D. 1000-1200 |
| 41LR187 | | 26.80 | | | 41 | Mahoney 2001 | ca. A.D. 1200-1400 |
| 41NA27 | Trace | | | 0.3 [Grooved] | 22619 | Fields 1995 | ca. A.D. 1680-1750 |
| 41CP10 | | | | | 970 | Turner and Smith 2002 | ca. A.D. 1200-1430 |
| | | | | | | | ca. A.D. 1000-1200 |
| 41DT80 | | 4.20 | | 2.8 [Painted] | 71 | McGregor et al. 1996 | A.D. 1500+ |
| 41DT124 | | 1.80 | | | 56 | McGregor et al. 1996 | ca. A.D. 1000-1200 |
| 41RR48 | | 13.00 | | | 23 | Mallouf 1976 | ca. A.D. 1000-1200 |
| 41LR60 | | 13.70 | | | 51 | Mallouf 1976 | ca. A.D. 1200-1400 |
| | | | | 1.7 [Lip notched]; 0.4 | | | |
| 41LR39 | | 14.90 | | [Grooved] | 235 | Mallouf 1976 | ca. A.D. 1000-1200 |
| 41RK19 | | 0.50 | | 0.1 [Stamped] | 1864 | Clark and Ivey 1974 | ca. A.D. 1200-1400 |
| 41RK21 | | 0.70 | | | 135 | Clark and Ivey 1974 | ca. A.D. 1400-1500 |
| 41RK32 | | 1.70 | | | 60 | Clark and Ivey 1974 | ca. A.D. 1200-1400 |
| 41RK36 | | | | | 26 | Clark and Ivey 1974 | Ca. A.D. 1680-1730 |
| 41RK39 | | | | | 97 | Clark and Ivey 1974 | ca. A.D. 1200-1400 |
| 41RK214 | | 0.80 | 0.03 | 0.03 [Lip notched] | 3847 | Rogers and Perttula 2004 | ca. A.D. 1200-1450 |
| 41GG33 | | | | 0.6 [Lip notched] | 343 | Perttula 2011b | ca. A.D. 900-1200 |
| 41GG33 | | | | | 79 | Perttula 2011b | ca. A.D. 1500-1680 |
| 41SY92 | | | | | 1862 | Middlebrook 1994 | ca. A.D. 1200-1400 |
| 41AN51 | | 11.30 | | | 688 | Perttula et al. 2012d | ca. A.D. 1200-1400 |
| 41CP71 | | 6.20 | 0.50 | | 418 | Perttula and Nelson 2004a | ca. A.D. 1430-1680 |
| | | | | | | Heartfield, Price and Greene | |
| 41HS74 | | | | 0.03 [Lip notched] | 2912 | 1988 | ca. A.D. 1200-1450 |
| 41BW5 | | 0.50 | | | 417 | Gilmore 1986 | ca. A.D. 1700-1760 |
| 41LR2 | | 10.00 | | | 455 | Krieger 2000 | ca. A.D. 1100-1400 |
| | | | | | | | ca. A.D. 1100-1300, |
| 41RR14 | | 25.40 | | | 126 | Prikryl 2008 | 1500-1700 |
| 41RR16 | | 17.40 | | | 219 | Perttula 2008c | ca. A.D. 1100-1300 |
| 41RR16 | | 6.10 | 1.40 | 0.3 [Lip notched] | 1094 | Perttula 2008c | ca. A.D. 1400-1680 |
| 41RR11 | | 18.70 | | | 134 | Perttula 2008d | ca. A.D. 1100-1300 |
| 41RR11 | | 30.60 | | | 36 | Perttula 2008d | ca. A.D. 1400-1680 |
| 41RR236 | | 58.60 | | | 58 | Perttula 2008d | ca. A.D. 1300-1500 |
| 41RR248 | | 4.50 | | | 157 | Perttula 2008d | ca. A.D. 1400-1600 |
| 41RR290 | | 30.00 | 10.00 | | 10 | Perttula 2008d | ca. A.D. 1300-1500 |
| 41BW3 | | 2.30 | 30.80 | | 302 | Perttula and Nelson 2003b | ca. A.D. 1100-1600 |
| 41TT672 | | | | | 62 | Dixon et al. 1995 | ca. A.D. 1430-1600 |
| 41NA49 | | | 1.40 | | 3431 | Hart 1982 | ca. A.D. 1200-1450 |
| 41HO50 | | | | 1.2 [fabric impressed] | 85 | Jurney 2000 | ca. A.D. 1400-1650 |
| 41TT653 | | 3.80 | | | 52 | Galan et al. 1997 | ca. A.D. 1430-1680 |
| 41RR16 | | 44.20 | | | 154 | Skinner et al. 1969 | ca. A.D. 1000-1300 |
| 41RR16 | | 42.80 | 0.60 | | 503 | Skinner et al. 1969 | ca. A.D. 1300-1680 |
| 44.0540 | | 0.50 | | 0.4 (| 4254 | C 4070 | - A D 000 4300 |
| 41CE19 | | 0.60 | | 0.1 [painted] 0.1 [grooved] | 1354 | Creel 1979 | ca. A.D. 900-1300 |
| 41DT16 | | 5.90 | | | 17 | Jurney et al. 1993 | ca. A.D. 1000-1200 |
| 41MR2 | | 7.80 | 4.40 | | 2148 | Davis et al. 2010 | ca. A.D. 1430-1680 |
| 41UR11 | | 3.50 7.80 | 1.40 | 4.4 feterment | 858 | Davis et al. 2010 | ca. A.D. 1430-1680 |
| | | | 0.60 | 1.4 [stamped] | 727 | Davis et al. 2010 | ca. A.D. 1430-1680 |
| 41MR12 | | 7.00 | | | | Davis et al. 2010 | |
| 41MR1 | | 7.50 | | 0.7.5 | 2216 | D | ca. A.D. 1430-1680 |
| 41MR1 41UR30 | | | | 0.7 [grooved/fluted] | 153 | Perttula 2011c | ca. A.D. 900-1200 |
| 41MR1 41UR30 41TT653 | | 4.60 | | 0.7 [grooved/fluted] | 153 1641 | Perttula and Sherman 2009 | ca. A.D. 900-1200 ca. A.D. 1430-1680 |
| 41MR1 41UR30 41TT653 41RK214 | | | | 0.7 [grooved/fluted] | 153 1641 114 | Perttula and Sherman 2009 Rogers et al. 1994 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 |
| 41MR1 41UR30 41TT653 41RK214 41RK215 | | | | 0.7 [grooved/fluted] | 153 1641 114 24 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1450 |
| 41MR1 41UR30 41TT653 41RK214 41RK215 41RK216 | | 4.60 | | 0.7 [grooved/fluted] | 153 1641 114 24 30 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 |
| 41MR1 41UR30 41TT653 41RK214 41RK215 41RK216 41NA235 | | | | 0.7 [grooved/fluted] | 153 1641 114 24 30 195 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1400-1650 |
| 41MR1 41UR30 41TT653 41RK214 41RK215 41RK216 41NA235 41NA236 | | 4.60 | | 0.7 [grooved/fluted] | 153 1641 114 24 30 195 146 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2002b | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1400-1650 |
| 41MR1 41UR30 41TT653 41RK214 41RK215 41RK216 41NA235 41NA236 41NA244 | | 4.60 | | 0.7 [grooved/fluted] | 153 1641 114 24 30 195 146 68 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2002b | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1200-1400 |
| 41MR1 41UR30 41TT653 41RK214 41RK215 41RK216 41NA235 41NA236 41NA244 41NA248 | | 4.60 | | 0.7 [grooved/fluted] | 153 1641 114 24 30 195 146 68 83 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2002b Perttula 2002b Perttula 2002b | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1200-1400 |
| 41MR1 41UR30 41TT653 41RK214 41RK215 41RK216 41NA235 41NA236 41NA244 41NA248 41NA264 | | 4.60 | | | 153 1641 114 24 30 195 146 68 83 47 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2002b Perttula 2002b Perttula 2002b Perttula 2002b | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 |
| 41MR1 41UR30 41TT653 41RK214 41RK215 41RK215 41NA235 41NA236 41NA244 41NA244 41NA248 41NA264 41NA285 | 222 | 4.60 | | 0.7 [grooved/fluted] 0.8 [Lip notched] | 153 1641 114 24 30 195 146 68 83 47 122 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2002b Perttula 2002b Perttula 2002b Perttula 2002b Perttula 2002b | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 200-1400 ca. A.D. 200-1400 ca. A.D. 200-1400 ca. A.D. 200-1400 |
| 41MR1 41UR30 41T1653 41RK214 41RK215 41RK216 41NA235 41NA236 41NA244 41NA248 41NA264 41NA264 41NA264 41NA243 | 2.30 | 4.60 | | | 153 1641 114 24 30 195 146 68 83 47 122 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2002b Perttula 2002b Perttula 2002b Perttula 2002b Perttula 2002b Perttula 2002b | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1400-1650 |
| 41MR1 41UR30 41T1653 41RK214 41RK215 41NA216 41NA235 41NA236 41NA244 41NA248 41NA248 41NA244 41NA243 41NA243 41NA243 | 2.30 | 1.00 | | | 153 1641 114 24 30 195 146 68 83 47 122 44 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1300 |
| 41MR1 41UR30 41IT653 41RK214 41RK215 41RK216 41NA235 41NA236 41NA244 41NA248 41NA248 41NA244 41NA243 41NA243 41NA243 41NA243 41NA247 41CP257 | 2.30 | 1.00 | | | 153 1641 114 24 30 195 146 68 83 47 122 44 37 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 400-1650 ca. A.D. 400-1650 ca. A.D. 400-1650 ca. A.D. 400-1630 ca. A.D. 1400-1630 ca. A.D. 1400-1630 |
| 41MR1 41UR30 41IT653 41RK214 41RK215 41RK216 41NA235 41NA236 41NA244 41NA248 41NA264 41NA264 41NA243 41NA243 41NA243 41NA247 41CP257 41CP272 | 2.30 | 4.60 1.00 16.00 10.90 | | | 153 1641 114 24 30 195 146 68 83 47 122 44 37 81 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2003b Relson and Perttula 2003b Relson and Perttula 2003b | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1500 ca. A.D. 1200-1500 ca. A.D. 1400-1650 ca. A.D. 1430-1680 ca. A.D. 1430-1680 |
| 41MR1 41UR30 41IT653 41IRK214 41IRK215 41IRK216 41INA236 41INA244 41INA244 41INA244 41INA244 41INA243 41INA243 41INA243 41INA243 41INA247 41CP257 41CP272 41FK107 | 2.30 | 4.60 1.00 16.00 10.90 0.60 | | | 153 1641 114 24 30 195 146 68 83 47 122 44 37 81 92 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Rettula 2003b Retson and Perttula 2003b Relson and Perttula 2003b Relson and Perttula 2003b | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1430-1680 ca. A.D. 1430-1680 ca. A.D. 1430-1680 ca. A.D. 1430-1680 ca. A.D. 1430-1550 ca. A.D. 1000-1200 |
| 41MR1 41UR30 41IT653 41RK214 41RK215 41RK216 41INA235 41INA236 41INA244 41INA248 41INA248 41INA248 41INA247 41I | 2.30 | 4.60 1.00 16.00 10.90 | | | 153 1641 1114 24 30 195 146 68 83 47 122 44 37 81 92 157 22 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 2994 Perttula 2002b Relson and Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1400-1630 ca. A.D. 1430-1580 ca. A.D. 1430-1580 ca. A.D. 1430-1580 ca. A.D. 1430-1500 |
| 41MR1 41UR30 41IT653 41RK214 41RK215 41RK216 41NA236 41NA244 41NA248 41NA248 41NA244 41NA243 41NA247 41NA247 41CP272 41FK107 41TF804 | 2.30 | 4.60 1.00 16.00 10.90 0.60 | | | 153 1641 1114 24 30 195 146 68 83 47 122 44 37 81 92 157 22 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2003b Relson and Perttula 2003b Relson and Perttula 2003b Relson and Perttula 2003b Perttula and Nelson 2003b Perttula and Nelson 2002b | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1430-1680 ca. A.D. 1400-150 ca. A.D. 1200-1400 ca. A.D. 1430-1550 ca. A.D. 1430-1550 ca. A.D. 1430-1550 ca. A.D. 1430-1550 ca. A.D. 1430-1680 |
| 41MR1 41UR30 41RK214 41RK215 41RK215 41RK216 41NA235 41NA236 41NA244 41NA248 41NA248 41NA248 41NA243 41NA247 4 | 2.30 | 4.60 1.00 16.00 10.90 0.60 | | | 153 1641 114 24 30 195 146 68 83 47 122 44 37 81 92 157 22 29 277 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 2002b Perttula 2002b Relson and Perttula 2003b Relson and Perttula 2003b Relson and Perttula 2003b Perton and Perttula 2003b Pertula and Nelson 2002b Pertula and Nelson 2002b Reddus et al. 2006 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 900-1300 ca. A.D. 1400-1650 ca. A.D. 1430-1680 |
| 41MR1 41UR30 41IT653 41IRK214 41IRK215 41IRK215 41INA236 41INA244 41INA248 41INA248 41INA244 41INA243 41INA247 41INA243 41INA247 41INA243 41INA247 41ICP257 41CP272 41FK107 41IT804 41IT310 41HS573 41HS573 | 2.30 | 1.00 1.00 16.00 10.90 0.60 4.50 | | | 153 1641 114 24 30 195 146 68 83 47 122 44 37 81 92 157 22 29 277 210 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Pettula and Nelson 2002b Gadus et al. 2006 Gadus et al. 2006 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1430-1680 |
| 41MR1 41UR30 41IT653 41RK214 41RK215 41RK216 41NA236 41NA248 41NA248 41NA248 41NA248 41NA248 41NA243 41NA243 41NA247 41CP272 41FK107 41TF804 41TF310 41HS573 41HS574 41HS574 | 2.30 | 1.00 16.00 10.90 0.60 4.50 | | | 153 1641 114 24 30 195 146 68 83 47 122 44 37 81 92 92 22 29 277 210 41 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Nelson and Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Pelson and Rertula 2003b Pelson and Rertula 2003b Pelson and Rertula 2003b Relson and Rertula 2003b Relson and Rertula 2003b Gadus at al. 2006 Gadus et al. 2006 Gadus et al. 2006 Gadus et al. 2006 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1430-1680 ca. A.D. 1430-1680 ca. A.D. 1430-1680 ca. A.D. 1430-1680 |
| 41MR1 41UR30 41RK214 41RK215 41RK215 41RK216 41NA235 41NA236 41NA244 41NA248 41NA248 41NA248 41NA243 41NA247 41NA247 41NA243 41NA247 4 | 2.30 | 4.60 1.00 16.00 10.90 0.60 4.50 | | | 153 1641 114 24 30 195 146 68 83 47 122 44 37 81 92 22 29 277 210 41 121 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Pertula and Nelson 2002b Gadus et al. 2006 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1430-1680 |
| 41MR1 41UR30 41T1653 41RK214 41RK215 41RK216 41NA236 41NA236 41NA244 41NA228 41NA248 41NA243 41NA243 41NA247 41CP272 41FK107 41T1804 41T1310 41H5573 41H5874 41H5844 41H5844 | 2.30 | 1.00 16.00 10.90 0.60 4.50 | | | 153 1641 114 24 30 195 146 68 83 47 122 44 37 81 92 157 22 29 277 210 41 121 168 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2003b Relson and Perttula 2003b Relson and Perttula 2003b Relson and Perttula 2003b Pertsula and Nelson 2002b Gadus et al. 2006 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1430-1680 |
| 41MR1 41UR30 41RK214 41RK215 41RK215 41RK215 41RA236 41NA236 41NA236 41NA244 41NA248 41NA248 41NA248 41NA247 41NA249 41NA243 41NA247 41CP257 4 | 2.30 | 4.60 1.00 16.00 10.90 0.60 4.50 | 0.10 | | 153 1641 114 24 30 195 146 68 83 47 122 44 43 781 92 29 277 210 41 121 168 780 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Perton and Perttula 2003b Perton and Pertula 2003b Perton and Pertula 2003b Pertula and Nelson 2002b Gadus et al. 2006 Dockall et al. 2006 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1430-1680 |
| 41MR1 41UR30 41UR41 41UR53 41RK214 41RK215 41RK215 41RK216 41NA235 41NA236 41NA244 41NA248 41NA248 41NA248 41NA243 41NA247 41CP257 41CP272 41FK107 41T1804 41T1310 41H5573 41H5574 41H5844 41H5844 41H5888 41H5588 | 2.30 | 1.00 1.00 10.90 0.60 4.50 2.40 0.80 2.40 | 0.10 | | 153 1641 114 24 30 195 146 68 83 47 122 44 37 81 192 157 22 29 277 210 41 121 168 780 185 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Pertula and Nelson 2002b Gadus et al. 2006 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1430-1680 |
| 41MR1 41UR30 41T653 41RK214 41RK215 41RK216 41NA236 41NA244 41NA248 41NA248 41NA248 41NA243 41NA247 41CP272 41FK107 41T7810 41H5573 41H5844 41H5844 41H5884 41H5884 41H5888 41H5888 | | 4.60 1.00 16.00 10.90 0.60 4.50 | | 0.8 [Lip notched] | 153 1641 114 24 30 195 146 68 83 47 122 44 37 81 92 157 22 29 277 210 41 121 168 780 185 780 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Nelson and Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Pelson and Perttula 2003b Pelson and Perttula 2003b Pelson and Perttula 2003b Selson and Perttula 2003b Selson and Perttula 2003b Selson and Selson 2002b Gadus et al. 2006 Dockall et al. 2008 Gadus et al. 2006 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1430-1680 ca. A.D. 1200-1410 ca. A.D. 1300-1640 ca. A.D. 1300-1640 ca. A.D. 1200-1430 ca. A.D. 1300-1640 ca. A.D. 1200-1430 ca. A.D. 1300-1640 ca. A.D. 1300-1640 ca. A.D. 1900-1300 |
| 41MR1 41UR30 41RK214 41RK215 41RK215 41RK216 41NA235 41NA236 41NA244 41NA248 41NA248 41NA248 41NA249 41FS57 41FS57 41FS57 41HS844 41HS844 41HS846 41F1425 41D711 41NA60 | 2.30 | 1.00 1.00 10.90 0.60 4.50 2.40 0.80 2.40 | 0.10 | | 153 1641 114 24 30 195 146 68 83 47 122 44 37 81 92 277 210 41 121 168 780 185 154 121 121 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Pertula and Nelson 2002b Gadus et al. 2006 Fertula 2008 Gadus et al. 2006 Fertula 2008 Fertula 2009 Fert | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1430-1680 ca. A.D. 1200-1430 ca. A.D. 1300-1640 ca. A.D. 1200-1430 ca. A.D. 1200-1430 ca. A.D. 1300-1640 ca. A.D. 1200-1430 |
| 41MR1 41UR30 41T1653 41RK214 41RK215 41RK215 41RK216 41NA235 41NA236 41NA244 41NA248 41NA248 41NA248 41NA243 41NA247 41CP257 41CP257 41CP272 41FK107 41T1804 41T1310 41H5573 41H5844 41H5844 41H5848 41F1425 41DF111 41NA60 | | 1.00 1.00 10.90 0.60 4.50 2.40 0.80 2.40 | | 0.8 [Lip notched] | 153 1641 114 24 30 195 146 68 83 47 122 44 37 81 92 157 22 29 277 210 41 121 168 780 185 780 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Reson and Perttula 2003b Reson and Perttula 2003b Reson and Perttula 2003b Gadus et al. 2006 Fedes et al. 2006 Gadus et al. 2006 Fedes et al. 20 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1430-1680 ca. A.D. 1430-1680 ca. A.D. 1430-1680 ca. A.D. 1200-1400 ca. A.D. 1300-1640 ca. A.D. 1300-1640 ca. A.D. 1200-1430 ca. A.D. 1300-1640 ca. A.D. 1900-1300 |
| 41MR1 41UR30 41T1653 41RK214 41RK215 41RK215 41RK216 41NA236 41NA236 41NA244 41NA248 41NA248 41NA248 41NA248 41NA247 41T1310 41T1804 41T1310 41H5573 41H5873 41H5844 41H5844 41H5844 41H5844 41H5844 41H5846 41T1311 41NA60 41T1372 | | 1.00 1.00 10.00 10.90 0.60 4.50 2.40 0.80 2.40 7.80 | | 0.8 [Lip notched] | 153 1641 114 24 30 195 146 68 83 47 122 44 43 73 81 92 27 27 210 29 277 210 41 121 168 780 185 154 2132 297 76 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Perton and Perttula 2003b Perton and Pertula 2006 Gadus et al. 2006 Gadus et al. 2006 Gadus et al. 2006 Gadus et al. 2006 Dockall et al. 2008 Gadus et al. 2006 Pockall et al. 2008 Fertula et al. 2010 Barnhard et al. 1994 Perttula et al. 1997 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1430-1680 ca. A.D. 1200-1430 ca. A.D. 1200-1430 ca. A.D. 1200-1430 ca. A.D. 1200-1430 ca. A.D. 1680-1730 |
| 41MR1 41UR30 41T1653 41RK214 41RK215 41RK215 41RK216 41NA236 41NA236 41NA244 41NA248 41NA248 41NA248 41NA248 41NA247 41T1310 41T1804 41T1310 41H5573 41H5873 41H5844 41H5844 41H5844 41H5844 41H5844 41H5846 41T1311 41NA60 41T1372 | | 1.00 1.00 10.90 0.60 4.50 2.40 0.80 2.40 | | 0.8 [Lip notched] | 153 1641 114 24 30 195 146 68 83 47 122 44 37 81 92 157 22 29 277 210 41 121 168 780 185 154 215 227 247 257 268 278 278 278 278 278 278 278 27 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Reson and Perttula 2003b Reson and Perttula 2003b Reson and Perttula 2003b Gadus et al. 2006 Fedes et al. 2006 Gadus et al. 2006 Fedes et al. 20 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1430-1680 ca. A.D. 1200-1400 ca. A.D. 1430-1680 ca. A.D. 1200-1400 ca. A.D. 1200-1430 ca. A.D. 1900-1300 ca. A.D. 1900-1300 ca. A.D. 1680-1730 ca. A.D. 1680-1730 ca. A.D. 1200-1430 |
| 41MR1 41UR30 41TF653 41RK214 41RK215 41RK215 41RA236 41NA236 41NA236 41NA244 41NA248 41NA248 41NA248 41NA248 41NA247 41TF307 41TF804 41TF307 41TF804 41TF310 41TF804 41TF310 41HSS73 41HSS74 41HS844 41HS846 41HS844 41HS846 | | 1.00 1.00 10.00 10.90 0.60 4.50 2.40 0.80 2.40 7.80 | | 0.8 [Lip notched] | 153 1641 114 24 30 195 146 68 83 47 122 44 43 73 81 92 27 27 210 29 277 210 41 121 168 780 185 154 2132 297 76 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Perton and Perttula 2003b Perton and Pertula 2006 Gadus et al. 2006 Gadus et al. 2006 Gadus et al. 2006 Gadus et al. 2006 Dockall et al. 2008 Gadus et al. 2006 Pockall et al. 2008 Fertula et al. 2010 Barnhard et al. 1994 Perttula et al. 1997 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1430-1680 ca. A.D. 1200-1430 ca. A.D. 1200-1430 ca. A.D. 1200-1430 ca. A.D. 1560-1330 ca. A.D. 1680-1730 ca. A.D. 1680-1730 ca. A.D. 1680-1730 |
| 41MR1 41UR30 41IT1653 41RK214 41RK215 41RK215 41RK216 41NA236 41NA236 41NA248 41NA248 41NA248 41NA248 41NA247 41CP257 41CP272 41CP272 41T1804 41T1310 41HS573 41HS573 41HS584 41HS844 41HS846 41HS588 41F4125 41CP354 41CP357 41CP372 41CP373 41HS574 41HS846 41HS858 41F4125 41CP354 41CP354 41CP354 41CP354 41CP354 41CP355 | | 4.60 1.00 16.00 10.90 0.60 4.50 2.40 0.80 2.40 7.80 | | 0.8 [Lip notched] | 153 1641 114 24 30 195 146 68 83 47 122 44 37 81 195 157 22 29 277 210 41 121 168 780 185 155 168 780 179 180 180 180 180 180 180 180 180 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Perttula and Nelson 2002b Gadus et al. 2006 Fedes et al. 1994b Perttula et al. 1994 Perttula and Nelson 2007a Perttula and Nelson 2007a Perttula and Nelson 2007a | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1430-1680 ca. A.D. 1200-1430 ca. A.D. 1680-1730 |
| 41MR1 41UR30 41UR30 41RK214 41RK215 41RK215 41RK216 41NA236 41NA236 41NA244 41NA248 41NA248 41NA248 41NA247 41T321 41CP257 41CP272 41FK107 41T1804 41T1310 41H5573 41H5574 41H5584 41H5844 41H5884 41H5888 41H48884 41H48888 41H488888 41H488888 41H4888888 41H48888888888 | | 4.60 1.00 1.00 16.00 10.90 0.60 4.50 2.40 0.80 2.40 7.80 | | 0.8 [Lip notched] | 153 1641 114 24 30 195 146 68 83 47 122 44 37 81 92 157 22 29 277 210 41 121 168 780 185 185 184 185 185 185 185 185 185 185 185 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Relson and Perttula 2003b Relson and Perttula 2003b Relson and Perttula 2003b Perton and Perttula 2003b Perton and Nelson 2002b Gadus et al. 2006 Pertula and Nelson 2007a Perttula and Holfrichter 1968 Lorrain and Hoffrichter 1968 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1430-1680 ca. A.D. 1200-1400 ca. A.D. 1680-1730 |
| 41MR1 41UR30 41UR31 41R4214 41R4215 41R4215 41R4215 41R4216 41NA236 41NA244 41NA248 41NA248 41NA243 41NA244 41NA243 41NA243 41NA243 41NA243 41NA243 41H5573 41H5874 41H5874 41H5884 | | 4.60 1.00 1.00 16.00 10.90 0.60 4.50 2.40 0.80 2.40 7.80 0.20 10.50 50.90 | 0.10 | 0.8 [Lip notched] | 153 1641 114 24 30 195 146 68 83 47 122 44 37 81 92 157 22 29 277 71 168 780 185 154 213 22 27 76 41 121 168 168 17 17 18 19 19 19 19 19 19 19 19 19 19 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Nelson and Perttula 2003b Pertula a1006 Gadus et al. 2006 Fadus et al. 2006 Fadu | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1430-1680 ca. A.D. 1680-1730 ca. A.D. 1680-1740-1740 |
| 41MR1 41UR30 41RK214 41RK215 41RK215 41RK215 41RA236 41NA236 41NA236 41NA244 41NA248 41NA248 41NA248 41NA248 41NA249 41CP257 4 | | 4.60 1.00 1.00 16.00 10.90 0.60 4.50 2.40 0.80 2.40 7.80 0.20 10.50 50.90 | 0.10 | 0.8 [Lip notched] | 153 1641 114 24 30 30 195 146 68 83 47 122 44 47 122 29 277 210 29 277 210 168 185 185 185 185 185 185 185 18 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Relson and Perttula 2003b Relson and Perttula 2003b Relson and Perttula 2003b Relson and Perttula 2003b Pertula 2006 Gadus et al. 2006 Fertula and Nelson 2007a Perttula et al. 1997 Perttula end Nelson 2007a Perttula and Nelson 2007a Perttula and Nelson 2007a Perttula et al. 1995 Perttula et al. 1995 Perttula end Nelson 2007b Perttula end Nelson 2007b Perttula end Nelson 2007b | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1430-1680 ca. A.D. 1430-1680 ca. A.D. 1430-1680 ca. A.D. 1430-1680 ca. A.D. 1200-1400 ca. A.D. 1430-1680 ca. A.D. 1200-1430 ca. A.D. 1200-1430 ca. A.D. 1680-1730 ca. A.D. 1200-1400 ca. A.D. 1680-1730 ca. A.D. 1680-1730 ca. A.D. 1200-1400 ca. A.D. 100-1200 ca. A.D. 100-1200 ca. A.D. 1680-1730 |
| 41MR1 41UR30 41UR41 41UR53 41RK214 41RK215 41RK216 41NA235 41NA236 41NA244 41NA248 41NA248 41NA248 41NA248 41NA249 41NA249 41NA257 41CP272 41FK107 41CP272 41FK107 41CP373 41HS574 41HS844 41HS846 41HS578 41HS846 41HS866 41HS866 41HS8666 41HS86666 41HS8666666666666666666666666666666666666 | 0.90 | 4.60 1.00 1.00 16.00 10.90 0.60 4.50 2.40 0.80 2.40 7.80 0.20 10.50 50.90 | 0.10 | 0.8 [Lip notched] 2.4 [grooved] | 153 1641 114 24 30 195 146 68 83 47 122 44 37 81 192 157 22 29 277 210 41 121 168 780 185 154 155 29 277 76 47 41 121 122 44 41 121 123 124 125 127 127 128 129 129 129 129 129 129 129 129 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Relson and Perttula 2003b Relson and Perttula 2003b Relson and Perttula 2003b Relson and Perttula 2003b Pertula and Nelson 2002b Gadus et al. 2006 Fadus et al. 2006 Fadus et al. 2006 Fadus et al. 2006 Fadus et al. 2006 Cadus et al. 2006 Cadus et al. 2006 Fadus et al. 2006 Fadus et al. 2007 Fertula and Nelson 2007a Perttula and Nelson 2007a Lorrain and Hoffrichter 1968 Brewington et al. 1995 Perttula and Nelson 2007b | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1430-1680 ca. A.D. 1400-1430 ca. A.D. 1680-1730 |
| 41MR1 41UR30 41RK214 41RK215 41RK215 41RK216 41NA235 41NA236 41NA244 41NA248 41NA248 41NA248 41NA248 41NA249 41F8107 4 | | 4.60 1.00 1.00 16.00 10.90 0.60 4.50 2.40 0.80 2.40 7.80 0.20 10.50 50.90 | 0.10 | 0.8 [Lip notched] | 153 1641 114 24 30 30 195 146 68 83 47 122 44 47 122 29 277 210 29 277 210 168 185 185 185 185 185 185 185 18 | Perttula and Sherman 2009 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Rogers et al. 1994 Perttula 2002b Relson and Perttula 2003b Relson and Perttula 2003b Relson and Perttula 2003b Relson and Perttula 2003b Pertula 2006 Gadus et al. 2006 Fertula and Nelson 2007a Perttula et al. 1997 Perttula end Nelson 2007a Perttula and Nelson 2007a Perttula and Nelson 2007a Perttula et al. 1995 Perttula et al. 1995 Perttula end Nelson 2007b Perttula end Nelson 2007b Perttula end Nelson 2007b | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1450 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1400-1650 ca. A.D. 1200-1400 ca. A.D. 1430-1680 ca. A.D. 1430-1680 ca. A.D. 1430-1680 ca. A.D. 1430-1680 ca. A.D. 1200-1400 ca. A.D. 1430-1680 ca. A.D. 1200-1430 ca. A.D. 1200-1430 ca. A.D. 1680-1730 ca. A.D. 1200-1400 ca. A.D. 1680-1730 ca. A.D. 1680-1730 ca. A.D. 1200-1400 ca. A.D. 100-1200 ca. A.D. 100-1200 ca. A.D. 1680-1730 |

Table 1. East Texas Caddo ceramic sherd database, cont.

| Trinomial | Tgrog | Tbone | Tshell | Tgrog-bone | Psandy | Freduced | Foxidized | Finc-oxidized | l Fred-oxidized | Rfdirect | Rfinverted | Rfeverted | Lfrounde | d Lfflat | Lfrounded-fold | ed Lfbeveled | Pred | Pwhite | DMUWappliqued |
|-------------------------------------|----------------|----------------|--------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|--------------|-----------|----------------|----------------|----------------|--------------|--------------|--------|---------------|
| 41NA336 | 92.40 | 1.50 | | 4.50 | 1.50 | 21.50 | 12.30 | 9.20 | 56.90 | | | | | | | | | | 0.10 |
| 41CS14 41SM273, Block I | 89.90 61.80 | 1.20 12.40 | | 7.00 19.10 | 1.90 6.80 | 21.50 | 9.70 | 19.90 | 49.00 | 100.00 | | | 31.60 | 68.40 | | | | | 7.00 |
| 41SM273, Bl. III 41SM273, Bl. II | 70.20 68.70 | 14.90 13.70 | | 11.30 13.70 | 3.60 3.90 | 22.00 19.30 | 14.60 12.50 | 17.40 24.80 | 45.90 43.40 | 94.40 96.60 | 5.60 3.40 | | 57.80 37.90 | 35.50 55.20 | 4.40 6.90 | 2.20 | 0.90 | | 0.30 |
| 41TT396 | 81.90 | | | 14.10 | 4.00 | | | | | | | | | | | | | | 4.00 |
| 41TT400 41DT6 | 72.40 53.40 | 4.30 5.40 | 2.10 | 14.30 38.60 | 9.00 | | | | | 20.00 | 400 | 40.00 | 47.60 | 38.10 | 9.50 | | | | 1.00 |
| 41DT16 41TT769 | 58.40 26.30 | 12.70 | 1.20 1.30 | 25.00 72.50 | | 6.80 | 18.40 | 17.80 | 57.00 | 28.60 | 21.40 | 50.00 | 52.40 | 23.80 | | | | | 8.80 |
| 41TT13 | | 4.50 | | | | | | | | | | | | | | | 11.50 | | |
| 41BW600 41HO211 | 98.50 77.40 | 1.50 11.80 | | 9.70 | 3.20 | 14.10 | 13.00 | 12.00 | 54.30 | | | | | | | | 6.70 | | 20.00 |
| 41HO214 41SM272 | 74.00 97.10 | 12.30 | | 11.50 2.90 | 2.20 | 20.70 | 7.70 | 13.50 | 56.30 | | | | | | | | | | 0.60 |
| 41CP314 | | | | | | | | | | | | | | | | | | | 3.00 |
| 41CP317 41CP304 | 95.00 | | | 5.00 | | 5.00 | 26.00 | 9.00 | 60.00 | | | | | | | | | | 2.30 0.90 |
| 41CP315 41SM272 | 89.00 76.00 | 8.00 | | 10.00 12.00 | 1.00 | | | | | | | | | | | | | | |
| 41SM273 | | | | | 45.00 | | | | | | | | | | | | | | 1.20 |
| 41SY100 16SA101 | 52.20 40.10 | 2.00 5.80 | | | 45.80 54.00 | | | | | | | | | | | | | | |
| 16SA17 16SA204 | 39.00 76.20 | 12.90 | 0.40 | 23.50 | 48.10 | | | | | | | | | | | | | | 0.70 1.10 |
| 16SA62 | | | | | | | | | | | | | | | | | | | 0.30 |
| 16SA30B 16SA37B | | | | | | | | | | | | | | | | | | | 1.00 0.30 |
| 16SA37A 16SA30A | | | | | | | | | | | | | | | | | | | 8.00 |
| 41TT110 | | | | | | | | | | | | | | | | | | | 0.60 |
| 41UR1 41UR3 | | | | | | | | | | | | | | | | | | | 3.50 2.00 |
| 41UR13 41UR14 | | | | | | | | | | | | | | | | | | | |
| 41UR18 | | | | | | | | | | | | | | | | | | | 0.70 |
| 41WD16 41CP8 | | | | | | | | | | | | | | | | | | | 1.90 |
| 41CP14 41FK4 | | | | | | | | | | | | | | | | | | | 1.00 20.70 |
| 41MX6 41MX8 | | | | | | | | | | | | | | | | | | | 3.90 |
| 41TT4 | | | | | | | | | | | | | | | | | | | 3.10 |
| 41TT6 41TT17 | | | | | | | | | | | | | | | | | | | 4.30 0.80 |
| 41TT28 41TT52 | | | | | | | | | | | | | | | | | | | 1.50 |
| 41CP15 | | | | | | | | | | | | | | | | | | | 2.60 |
| 41HS1 41HS10 | | | | | | | | | | | | | | | | | | | 16.70 |
| 41HS11 41MR6 | | | | | | | | | | | | | | | | | | | 0.90 |
| 41MR13 41MR31 | | | | | | | | | | | | | | | | | | | 7.30 |
| 41MX22 | | | | | | | | | | | | | | | | | | | 14.30 |
| 41TT18 41TT151 | | | | | | | | | | | | | | | | | | | 7.00 3.40 |
| 41UR15 41CP3 | | | 1.30 | | | | | | | | | | | | | | | | |
| 41CP71 | | | 1.50 | | | | | | | | | | | | | | | | 1.10 |
| 41CP55 | 97.80 | 2.20 | | | | | | | | | | | | | | | | | 6.20 |
| 41LR2 41GG5 | 85.50 91.80 | 8.60 8.20 | 5.90 | | | | | | | | | | | | | | | | 5.60 |
| 41GG50 41BW3, VP 1 | 89.40 85.70 | 10.60 1.40 | 2.40 | 10.00 | | 19.20 | 15.10 | 15.50 | 46.40 | | | | | | | | | | 11.80 |
| 41BW4 | 97.20 | 2.80 | 2.40 | 10.00 | | 15.20 | 15.10 | 15.50 | 40.40 | | | | | | | | 0.40 | 3.70 | 6.00 |
| 41RK19 | 88.70 | 11.30 | | | | | | | | | | | | | | | 0.10 0.70 | | 0.50 |
| 41BW2 41TT12 | 84.90 76.40 | 9.40 23.60 | 5.70 | | | | | | | 72.90 | 7.40 | 19.70 | 77.70 | 1.60 | 20.70 | | | 1.50 | 6.40 2.00 |
| 41TT11 | 72.70 | 27.30 | | | | | | | | | | | | | | | 1.40 | | 0.60 |
| 41NA317 41CE299 | 78.00 79.90 | 4.20 4.20 | | 16.40 9.20 | 1.40 6.80 | 2.80 27.20 | 8.30 16.70 | 20.80 10.30 | 68.00 46.00 | | | | | | | | | | 0.60 |
| 41SM404 41RK240 | 92.00 72.10 | 8.00 | | 16.50 | 12.60 | 9.30 | 15.80 | 16.30 | 58.60 | 93.10 | 4.30 | 2.60 | 74.10 | 16.40 | 6.00 | 0.90 | 0.90 1.10 | | |
| 41RK242 | 76.80 | 0.70 | | 14.70 | 7.70 | | | | | 00.00 | | 42.00 | 70.00 | 24.00 | | | | | |
| 41RK243 41UR106 | 74.60 | | | 10.40 | 13.60 | | | | | 88.00 | | 12.00 | 79.00 | 21.00 | | | | | 0.80 |
| 41UR106B 41UR109 | | | | | | | | | | | | | | | | | | | 0.90 |
| 41UR118 41UR129 | | | | | | | | | | | | | | | | | | | 0.20 |
| 41UR133, Saddle | | | | | | | | | | | | | | | | | | | 1.90 |
| 41LR297 41SY323 | 62.50 11.90 | 14.80 69.50 | | 21.60 18.60 | | 23.50 13.60 | 12.30 5.10 | 8.00 15.30 | 56.20 64.40 | | | | | | | | | | 1.10 |
| 41RK557 41HS269 | 42.90 | 31.80 | | 24.30 | 1.10 | | | | | | | | | | | | | | |
| 41PN175 | 31.70 | 53.70 | | 14.00 | 0.50 | 18.20 | 10.90 | 9.00 | 61.90 | 85.80 | 1.10 | 12.90 | 86.00 | 5.20 | 8.70 | | | | 0.10 |
| 41HS12 41CP408 | 58.10 40.60 | 8.70 4.40 | 0.20 | 31.70 54.20 | 1.50 0.50 | 14.70 25.20 | 8.10 13.40 | 18.50 19.90 | 52.40 41.10 | 91.70 92.20 | 8.30 | 7.80 | 74.50 66.30 | 23.00 15.70 | 2.50 16.80 | 1.10 | | | 1.90 |
| 41AN21 41CE39 | 94.30 94.60 | 0.80 | 4.10 | 4.30 | 1.10 | 12.70 11.40 | 30.90 22.90 | 40.00 14.90 | 16.40 50.90 | 37.50 | 18.80 | 43.80 | 83.30 | 16.70 | | | | | 1.60 |
| 41NA321 | | 1.00 | | | | | | | | | | | | | | | | | 00 |
| 41CE20 41CE48 | 85.70 69.90 | 1.60 9.70 | | 12.70 19.70 | 0.80 | 13.70 15.20 | 17.60 18.50 | 24.40 9.80 | 44.40 56.50 | 50.00 | 16.70 | 33.30 | 88.90 | | 11.10 | | | 0.50 | |
| 41CE293 | 93.60 | 1.10 | | 4.50 | 0.70 | 10.60 | 18.90 | 15.60 | 54.70 | 44.40 | 5.60 | 50.00 | 76.90 | 7.70 | 15.40 | | | | |

Table 1. East Texas Caddo ceramic sherd database, cont.

| March 100 | Trinomial | DMUWappliqued-brushed | DMUWappliqued-incised | DMUWappliqued-punctat | ed DMUWbrushed D | MUWbrushed-incised | DMUWbrushed-punctated | DMUWbrushed-applique | ed DMUWincised DN | //UWincised-punctate |
|--|-------------------|-----------------------|-----------------------|-----------------------|------------------|--------------------|-----------------------|----------------------|-------------------|----------------------|
| MEMORY 1 | 41NA336 | | | | 89.20 | 1.00 | 1.00 | | 3.00 | 0.10 |
| MANUFACE 1988 1989 198 | | | | | | | | | | |
| CHANTE | | | | | | | 2.10 | | | |
| SETUING SETUIN | | | | | | | | | | |
| Part | | | | | | | 1.20 | | | 8.00 |
| MITH 1988 | | | | | | 2.20 | | | | 1.00 |
| 1000 | | | | 4.70 | 23.30 | | | | | |
| STITUS | | | | **** | 5.80 | | | | | |
| SHINNON | | | | | | | 2.20 | 1.10 | | |
| SHEPAIL | | | | | | | | | | |
| SHEADLY 1-10 | | | | | | | | | | |
| MINOR 100 10 | | | | | | | | | | 1.40 |
| Minument | | 1.70 | | | | 14.00 | 2.30 | | 7.00 | |
| MICHINE 120 | | | | | | | | | | 4.80 |
| MINOR | | | 4.50 | 0.00 | | | | 2.40 | 0.50 | 2.40 |
| SCOPE | | | 1.50 | | | | | 3.10 | | |
| WELLOW W | | | | 1.00 | | | | | | 1.00 |
| SEMPLY 1.00 | | | | | | | 13.30 | | | |
| 1819000 | | | | | | | | 1.20 | | 12.80 |
| 1504174 1504 1406 | | | | | | | | | | |
| 15602561 | | | | | | | | | | |
| 1500.05 | | | | | | | | | | |
| 186.08 | 16SA204 | | | | | | | | | |
| 1864379 | | 0.04 | 0.10 | | | 0.02 | 0.10 | | | 0.40 |
| 156373 | | | | | | 4.50 | | | | 4.00 |
| 1868.086 | | | | | | 1.50 | | | | 4.60 |
| ## 1 | | | | | | | | | | |
| 4LURIS | | | | | | | 0.50 | 0.30 | | 2.80 |
| MUMBA | | | | | | | 0.30 | 5.50 | | |
| STATE | | | | | | 4.40 | 2.30 | | | |
| | | | | | | | | | | |
| STATE | 41UR14 | | | | | | | | | 0.90 |
| 14079 1208 | 41UR18 | | 0.10 | | 67.20 | 5.10 | 3.60 | | 4.40 | |
| 14174 1 | | | | 1.40 | | | | 0.70 | | |
| ABMOR | | | 0.10 | | | | 1.50 | | | 1.50 |
| SAMPO | | | | | | 0.60 | | | | |
| Second S | | | | 2.40 | | | | 1.80 | | |
| 14174 9.80 35.70 3.90 2.30 3.90 2.30 3.80 7.00 0.80 7.00 0.80 7.00 0.80 7.00 0.80 7.00 0.80 7.00 0.80 7.00 | | | | | | 1 20 | | | | 1 20 |
| 14176 | | | | 0.80 | | | | 0.80 | | |
| MITTION DECOME 150 | | | | 0.80 | | 3.50 | 2.30 | | | 0.80 |
| 141728 | | | 0.80 | | | | 1.50 | | | 1.50 |
| 14T52 | | | | | | | | | | |
| 4HS10 | | | | | | 1.70 | 5.20 | 1.70 | | 0.60 |
| Section Sect | 41CP15 | | | | 17.90 | 2.60 | | | 33.30 | |
| Section Sect | 41HS1 | | | | 57.40 | | | | | 1.90 |
| 44M66 | | | | | | | | | | |
| 44MR3 | | | | | | | 3.60 | 6.70 | | |
| Second S | | | | | | 3.00 | | | | |
| STOTE STOT | | | | | | | | | | |
| STITES | | | | | | 2.00 | | | | 2.00 |
| AUTUS | | | | | | | | | | 2.00 |
| 41UR15 | | | | | | 41.70 | | | | |
| 44CP3 | | | | | | 5.20 | 1.70 | | | |
| 44.071 | | | | | | | | 2.10 | | 2.10 |
| ALIRIZ | 41CP71 | | 0.50 | | | 4.80 | 2.30 | 1.40 | | 1.40 |
| ALGGS | 41CP55 | | | | 53.80 | 9.20 | | | 6.20 | |
| ALGGS | | | | | | | | | | |
| ALGOSO | | | | | | | | | | 5.60 |
| ALBWAY 1 | | | | | | | | | | |
| ALBWA | | 0.00 | | | | 1.50 | 9.50 | | | 1.20 |
| 41RK19 | | | 0.40 | 1 10 | | | 1 90 | | | |
| ALBWZ | | 0.70 | | 1.10 | | | | 0.60 | | |
| 110 0.30 | | | 0.03 | | 55.00 | 5.50 | 1.50 | 5.00 | 27.10 | 10.00 |
| 1112 | 41BW2 | | 1.20 | 0.10 | 8.60 | 0.20 | 0.60 | 1.30 | 14.70 | 0.70 |
| 41T11 | | | | | | | ** | | | |
| 41CE299 41CE289 4100 4100 4100 4100 4100 4100 4100 410 | 41TT11 | | | 0.20 | 10.80 | 1.80 | | 0.20 | 30.50 | |
| 415M040 | | | | | | | 6.00 | | | |
| 41RK240 | | | | | | | | 0.60 | | |
| 41RK242 | | | | | | | | | | |
| 41RK243 | | | | | | 0.50 | | | | |
| 41UR106 | | | | 0.40 | | 2.20 | | 9.00 | | |
| 41UR106B 0.50 4.50 1.10 1.10 1.10 1.10 1.10 3.30 3.30 1.101 1.10 1.10 | | | | 0.40 | | 5.20 | | | | |
| 41UR119 0.30 0.30 0.30 45.70 0.90 3.00 0.90 13.10 1.50 41UR118 0.40 59.60 0.20 0.40 0.40 0.40 7.10 0.20 41UR129 2.40 0.30 4.10 2.40 41UR129 2.40 0.30 4.10 2.40 41UR13,3 saddle 41LR297 2.40 0.30 4.10 2.40 41UR129 2.40 41UR1297 3.70 2.50 41UR1297 3.70 2.50 41UR1297 3.70 2.50 41UR1297 3.70 2.40 41UR1297 3.70 2.50 41UR1297 3.70 2.40 41UR1297 3.70 3.70 4.40 3.70 3.70 4.40 3.70 3.70 3.70 41UR1297 3.70 3.70 3.70 3.70 3.70 3.70 3.70 3.7 | | | 0.50 | | | 1.10 | | | | |
| 4141118 | | | | 0.30 | | | | 0.90 | | |
| 41UR1329 | | | 0.50 | | | | | | | |
| 41UR133, Saddle 1.00 1.90 1.90 1.70 20.50 41R297 64.80 2.30 1.20 12.0 28.90 41R557 49.10 1.20 1.20 28.90 1.20 28.90 41R15269 64.30 59.10 5.60 0.60 0.30 18.10 1.10 41R512 1.00 0.30 18.40 3.00 1.00 0.10 23.50 5.40 41R412 0.70 72.80 1.40 1.40 2.70 0.70 41K623 1.60 1.60 1.40 2.70 0.70 41K1321 78.60 2.10 1.60 1.60 3.40 41K2620 70.70 4.40 5.50 1.60 1.70 1.10 41K263 74.70 0.50 1.00 1.60 1.70 1.10 | | | | | | | | | | |
| 41R297 41SY323 41SY323 41SY323 41SY323 41SY323 41SY323 41SY323 41SY326 49.10 49.10 49.10 49.10 49.10 41SY326 4 | | | | | | 1.90 | | | | |
| 41R1557 49.10 1.20 28.90 41R15269 64.30 9.50 9.50 9.50 11R10 1.20 9.50 9.50 11R10 1.10 1.10 1.10 1.10 1.10 1.10 1. | | | | | | | | | 45.40 | 9.10 |
| 41HS259 | 41SY323 | | | | | 2.30 | | | 14.80 | |
| 41PN175 0.40 59.10 5.60 0.60 0.30 18.10 1.10 41LF12 41CP408 0.30 18.40 3.00 1.00 0.10 23.50 5.40 41AN21 0.70 72.80 1.40 1.40 2.70 0.70 41CE39 65.30 1.60 9,70 2.40 41NA321 78.60 2.10 3.40 41CE20 70.90 4.40 5.50 1.60 1.70 1.10 41CE48 74.70 0.50 1.00 9.30 1.00 | 41RK557 | | | | 49.10 | | 1.20 | 1.20 | 28.90 | |
| 41H512 | | | | | | | | | | |
| 41CP408 0.30 18.40 3.00 1.00 0.10 23.50 5.40 41AN21 0.70 72.80 1.40 1.40 2.70 0.70 41CE39 65.30 1.60 9.70 2.40 41NA321 78.60 2.10 3.40 41CE20 70.90 4.40 5.50 1.60 1.70 1.10 41CE48 74.70 0.50 1.00 9.30 | | | 0.40 | | 59.10 | 5.60 | 0.60 | 0.30 | | |
| 41AN21 0.70 72.80 1.40 1.40 2.70 0.70 41CE39 65.30 1.60 9,70 2.40 41N3321 78.60 2.10 3.40 41CE20 70.90 4.40 5.50 1.60 1.70 1.10 41CE48 74.70 0.50 1.00 9.30 | | | 0.22 | | 46.00 | 2.65 | | | | |
| 41CE39 65.30 1.60 9.70 2.40 41NA321 78.60 2.10 3.40 41CE20 70.90 4.40 5.50 1.60 1.70 1.10 41CE48 | | | | | | 3.00 | | | | |
| 41NA321 78.60 2.10 3.40 41CE20 70.90 4.40 5.50 1.60 1.70 1.10 41CE48 74.70 0.50 1.00 9.30 | | | 0.70 | | | 1.00 | 1.40 | 1.40 | | |
| 41CE20 70.90 4.40 5.50 1.60 1.70 1.10 41CE48 74.70 0.50 1.00 9.30 | | | | | | | | | | 2.40 |
| 41CE48 74.70 0.50 1.00 9.30 | | | | | | | 5 50 | 1 60 | | 1 10 |
| | | | | | | | | 1.00 | | 1.10 |
| | 41CE48 41CE293 | | | | 81.50 | 1.90 | 1.30 | | 0.60 | 1.00 |

Table 1. East Texas Caddo ceramic sherd database, cont.

| | DINO WHELK DANGE | . Diviovopinchea D | vertooi punctated 1 | OMUWfingernail punctated | 2 vicirculai punctated | z.viovvcane punctate | Diviovvilaged | Dim engi-punet. | | |
|--|------------------|--------------------|---------------------|--------------------------|------------------------|----------------------|---------------|-----------------|------------------------|------|
| 11NA336 | | | 3.00 | 0.50 | 0.50 | | | | 16.20 | |
| ICS14 | 4.50 | | 0.50 | 0.50 | 0.50 | | | | 30.20 | |
| SM273, Block I | | | 21.10 | 3.20 | | 2.10 | | | 16.80 | |
| SM273, Bl. III | | | 11.10 | 5.20 | | 2.30 | | | 10.50 | |
| SM273, Bl. II | | | 28.20 | 9.80 | | 4.30 | | 0.60 | 11.00 | |
| TT396 | | | 4.30 | 4.30 | | | | 2.20 | 17.40 | |
| TT400 | | | 6.10 | 14.20 | | | | 1.00 | 12.20 | |
| DT6 | | 1.60 | 14.10 | 4.70 | | | | | 29.70 | |
| DT16 | | 1.00 | 1.00 | 20.40 | | | | | 30.00 | |
| TT769 | 11.00 | | 17.60 | 1.10 | | | | | 13.20 | |
| TT13 | 1.90 | | 5.80 | 1.90 | | | | | 76.00 | |
| BW600 | 6.70 | | | | | | | | 53.30 | |
| HO211 | 1.40 | | | | | | | | 14.30 | |
| HO214 | 2.90 | | 2.90 | 0.60 | | | | | 9.30 | |
| SM272 | | | 4.80 | | | | | | 14.30 | |
| CP314 | 9.10 | | | 18.20 | | | | | 18.20 | |
| CP317 | 0.80 | | 3.90 | 4.70 | | | | | 21.70 | |
| CP304 | 0.90 | | 4.50 | | | | | | 23.30 | |
| CP315 | | | | | | | | | 30.00 | |
| SM272 | | | | | | | | | 7.40 | |
| SM273 | | | | | | | | | 17.40 | |
| SY100 | | | | | | | | | 7.40 | |
| SA101 | | | | | | | 0.50 | | 5.70 | |
| SA17 | | 0.04 | | | | | 0.60 | | 4.20 | |
| SA204 | | 0.01 | | | | | 35.10 | | 12.00 | |
| SA62 | | | | | | | 8.00 | 0.02 | 52.00 | |
| SA30B | | | | | | | 15.40 | | 20.90 | |
| SA37B | | | | | | | 4.00 | | 19.10 | |
| SA37A | | | | | | | | | 26.40 | |
| SA30A | | | | | | | 1.50 | | 8.40 | |
| TT110 | 1.40 | | | 0.20 | | | | | 6.80 | |
| UR1 | | 0.50 | | 3.00 | | | | | 31.70 | |
| UR3 | | 0.10 | | 1.00 | | | | | 14.10 | |
| UR13 | | | | 1.60 | | | | | 5.90 | |
| UR14 | | 0.70 | 0.70 | | | | | | 7.10 | |
| UR18 | c == | | | 0.80 | | | | | 12.70 | |
| WD16 | 0.70 | 0.77 | | 4.10 | | | | | 44.80 | |
| CP8 | 0.30 | 0.30 | | | | | | | 22.30 | |
| CP14 | | 6.90 | | | | | | | 26.00 | |
| FK4 | 0.60 | 1.80 | | 2.40 | | | | | 44.50 | |
| MX6 | | | | | | | | | 35.20 | |
| MX8 | | 0.70 | | 4.60 | | | 0.70 | | 16.40 | |
| TT4 | | | | 6.20 | | | | | 28.70 | |
| TT6 | | | | 10.60 | | | | | 45.70 | |
| TT17 | | 0.80 | | 6.80 | | | | | 16.70 | |
| ITT28 | 0.30 | | | | | | | | 28.80 | |
| ITT52 | | 2.60 | | 0.60 | | | | | 13.90 | |
| ICP15 | 4.00 | 2.60 | | | | | | | 2.60 | |
| LHS1 | 1.90 | | | | | | | | 11.10 | |
| IHS10 | 1.90 | | | | | | | | 11.30 | |
| 1HS11 | | | | | | | 0.30 | | 6.90 | |
| LMR6 | | | | 4.50 | | | | | 10.40 | |
| IMR13 | | 2.40 | | | | | | | 17.10 | |
| MR31 | 2.20 | | | 8.70 | | | 2.20 | | 13.00 | |
| .MX22 | 2.00 | | | | | | | | 24.50 | |
| TT18 | | | | 2.30 | | | | | 14.00 | |
| TT151 | | | | | | | | | 19.00 | |
| UR15 | | | | | | | | | 10.30 | |
| .CP3 | | | | 2.10 | | | | | 36.20 | |
| CP71 | 0.40 | | 3.70 | | | | | | 19.10 | |
| .CP55 | 3.10 | | | | | | | | 21.50 | |
| | | | | | | | | | | |
| LR2 | | | 22.20 | 5.60 | | | | | 16.70 | |
| 3G5 | | | 14.00 | 2.00 | | | | | 48.00 | |
| GG50 | | 4.80 | 4.80 | | | | | 4.80 | 28.60 | |
| BW3, VP 1 | 1.80 | | | | | | | 2.10 | 27.10 | |
| BW4 | | | 6.70 | 6.00 | | | | 0.70 | 29.90 | 0.40 |
| RK19 | | 1.40 | 2.00 | 0.30 | 0.50 | | | | 8.60 | |
| | | | | | | | | | | |
| BW2 | 1.00 | | 3.10 | 0.70 | | | | 0.10 | 49.30 | 0.30 |
| TT12 | 0.90 | | 9.40 | 31.00 | 2.30 | 0.30 | | 0.30 | 12.80 | |
| TT11 | 0.20 | 0.40 | 11.20 | 5.10 | 0.60 | 0.20 | | | 17.30 | |
| NA317 | | | 4.00 | 4.00 | | | | | 6.00 | |
| CE299 | | | 10.40 | 0.60 | | 0.60 | | | 14.90 | |
| SM404 | | 0.20 | 14.30 | 2.20 | | | | 4.50 | 16.50 | |
| RK240 | | 3.70 | 9.60 | 7.00 | | 1.10 | | | 12.80 | |
| LRK242 | | | 12.80 | 19.20 | | 1.30 | | | 18.00 | |
| LRK243 | | | 11.10 | 24.30 | | 0.70 | | | 27.90 | |
| IUR106 | | 3.20 | | | | | | | 12.40 | |
| UR106B | | | | | | | | | 20.20 | |
| UR109 | | | | | | | | | 20.40 | |
| UR118 | 0.20 | 0.20 | | 0.20 | | | | | 19.50 | |
| UR129 | | | | | | | | | 16.30 | |
| UR133, Saddle | | | | | | | | | 22.40 | |
| LR297 | | | | 12.50 | 1.10 | 1.10 | | | 30.70 | |
| | | | 1.10 | | | | 4.50 | | 5.70 | |
| | | 1.20 | 1.80 | 8.00 | | | 0.60 | | 8.00 | |
| SY323 | | | | | | | | | 23.80 | |
| SY323 RK557 | | | 1.90 | 0.30 | 0.10 | | | | 5.80 | |
| SY323 RK557 HS269 | | 1.10 | 4.10 | 6.60 | | | | | 6.30 | |
| SY323 RK557 HS269 PN175 | | | | | 0.70 | 0.70 | | | | |
| SY323 RK557 HS269 PN175 HS12 | | | 8.00 | | | | | | 18.90 | |
| SY323 RK557 HS269 PN175 HS12 CP408 | 2.00 | 0.80 | 8.00 | 8.50 | 0.70 | 0.70 | | | 18.90 13.60 | |
| SY323 RK557 HS269 PN175 HS12 CP408 AN21 | 2.00 | | 8.00 | 8.30 | 0.70 | 0.70 | | | 13.60 | |
| LSY323 LRK557 LHS269 LPN175 LHS12 LCP408 LAN21 LCE39 | 2.00 0.80 | 0.80 1.40 | 8.00 | 8.50 | 0.70 | 0.70 | | | 13.60 11.30 | |
| SY323 RK557 HS269 PN175 HS12 CP408 AN21 CE39 NA321 | 0.80 | 0.80 | 8.00 | 8.50 | 0.70 | 0.70 | | | 13.60 11.30 7.90 | |
| LSY323 LRK557 LHS269 LPN175 LHS12 LCP408 LAN21 | | 0.80 1.40 | 8.00 | 8.30 | 0.70 | 0.70 | | | 13.60 11.30 | |

Table 1. East Texas Caddo ceramic sherd database, cont.

| Trinomial 41NA336 41CS14 41SM273, Block I 41SM273, Bl. III 41SM273, Bl. III 41SM273, Bl. III 41TT396 41TT130 41DT16 41DT16 41TT769 41TT13 41BW600 41H0211 41H0211 41H0214 41SM272 41CP317 41CP317 41CP317 41CP317 41CP317 41CP317 16SA204 16SA3101 16SA3101 16SA37B 16SA37B | DMFWengraved-brushed | 2.00 4.20 0.60 1.20 6.50 8.20 14.10 13.60 18.70 1.90 | DMFWtrailed 0.30 | Other decorative method 1.0 [stamped] | 198 202 95 342 163 163 163 163 175 175 175 175 175 175 175 175 175 175 | Reference Perttula et al. 2011c Perttula 1998 Perttula and Nelson 2004b Perttula and Nelson 2004b Perttula and Nelson 2004b Nash et al. 1995 Fields et al. 1993 Fields et al. 1993 Fields et al. 1993 Giffer al. 1997 Perttula and Nelson 2006b Perttula and Nelson 2006b Perttula and Nelson 2006b Perttula and Nelson 2006b Perttula and Nelson 1999 | ca. A.D. 1680-1730 ca. A.D. 1200-1400 ca. A.D. 12200-1400 ca. A.D. 900-1200 ca. A.D. 900-1200 ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1430-1680 ca. A.D. 1000-1200 ca. A.D. 1000-1400 ca. A.D. 1680-1730 ca. A.D. 1680-1730 ca. A.D. 1400-1650 ca. A.D. 1440-1650 ca. A.D. 1440-1650 |
|--|----------------------|---|------------------|--|--|--|--|
| 41C514 41SM273, Block I 41SM273, Bl. III 41SM273, Bl. III 41SM273, Bl. III 41T396 41T7400 41D716 41D716 41D716 41T713 41BW600 41H0211 41H0214 41SM272 41CP317 41CP317 41CP317 41CP317 41CP316 41SM272 41SM272 41SM272 41SM272 41SM272 41SM273 | | 4.20 0.60 1.20 6.50 8.20 14.10 13.60 18.70 1.90 | 0.30 | 1.0 [stamped] | 202 95 342 163 46 98 64 103 91 52 15 70 172 21 33 129 | Perttula 1998 Perttula and Nelson 2004b Perttula and Nelson 2004b Perttula and Nelson 2004b Nash et al. 1995 Nash et al. 1995 Fields et al. 1993 Fields et al. 1993 Walters et al. 2003 Bell 1981 Cliff et al. 1997 Perttula and Nelson 2006b Perttula and Nelson 2006b Perttula and Nelson 2000a Perttula and Nelson 2000a Perttula and Nelson 1999 | ca. A.D. 1200-1400 ca. A.D. 900-1200 ca. A.D. 900-1200 ca. A.D. 900-1200 ca. A.D. 1343-1680 ca. A.D. 1200-1430 ca. A.D. 1200-1430 ca. A.D. 1200-1430 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1808-1730 ca. A.D. 1400-1650 ca. A.D. 14330-1680 |
| 41SM273, Block I 41SM273, Bl. III 41SM273, Bl. III 41SM273, Bl. III 41T1396 41DT16 41DT16 41DT16 41T1769 41T173 41BW600 41H0211 41H0211 41H0214 41SM272 41CP314 41CP317 41CP304 41CP317 41CP304 41CP315 41SM273 41SY100 16SA17 16SA17 16SA21 16SA27 16SA204 16SA62 16SA308 | | 4.20 0.60 1.20 6.50 8.20 14.10 13.60 18.70 1.90 | 0.30 | 1.0 [stamped] | 95 342 163 46 98 64 103 91 52 15 70 172 21 33 129 | Perttula 1998 Perttula and Nelson 2004b Perttula and Nelson 2004b Perttula and Nelson 2004b Nash et al. 1995 Nash et al. 1995 Fields et al. 1993 Fields et al. 1993 Walters et al. 2003 Bell 1981 Cliff et al. 1997 Perttula and Nelson 2006b Perttula and Nelson 2006b Perttula and Nelson 2000a Perttula and Nelson 2000a Perttula and Nelson 1999 | ca. A.D. 900-1200 ca. A.D. 900-1200 ca. A.D. 900-1200 ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1430 ca. A.D. 1000-1200 ca. A.D. 1000-1200 ca. A.D. 1000-1200 ca. A.D. 1000-1500 ca. A.D. 1200-1450 ca. A.D. 1430-1680 ca. A.D. 1880-1730 ca. A.D. 1680-1730 ca. A.D. 1400-16550 ca. A.D. 1430-1680 |
| 41SM273, Bl. III 41SM273, Bl. III 41TT396 41TT400 41DT16 41DT16 41TT13 41BW600 41HT011 41H0211 41H0211 41H0214 41CP314 41CP314 41CP314 41CP317 41CP317 41CP315 41SM272 41SM272 41SM273 41SY100 16SA17 16SA17 16SA204 16SA308 | | 0.60 1.20 6.50 8.20 14.10 13.60 18.70 1.90 | 0.30 | 1.0 [stamped] | 342 163 46 98 64 103 91 52 15 70 172 21 33 129 | Perttula and Nelson 2004b Perttula and Nelson 2004b Nash et al. 1995 Nash et al. 1995 Fields et al. 1993 Fields et al. 1993 Walters et al. 2003 Bell 1981 Cliff et al. 1997 Perttula and Nelson 2006b Perttula and Nelson 2006b Perttula and Nelson 2000a Perttula and Nelson 1999 | ca. A.D. 900-1200 ca. A.D. 1900-1200 ca. A.D. 1433-1680 ca. A.D. 1200-1430 ca. A.D. 1000-1200 ca. A.D. 1000-1200 ca. A.D. 1000-1200 ca. A.D. 1000-1200 ca. A.D. 1200-1450 ca. A.D. 1430-1680 ca. A.D. 1880-1730 ca. A.D. 1680-1730 ca. A.D. 1400-1650 ca. A.D. 1430-1680 |
| 41SM273, Bl. II 41T396 41T7396 41T7400 41D716 41D716 41D716 41T713 41BW600 41H0211 41H0214 41SM272 41CP317 41CP317 41CP317 41CP316 41SW272 41SW372 41SW372 41SW372 41SW373 41S | | 1.20 6.50 8.20 14.10 13.60 18.70 1.90 | 0.30 | 1.0 [stamped] | 163 46 98 64 103 91 52 15 70 172 21 33 129 | Perttula and Nelson 2004b Nash et al. 1995 Nash et al. 1995 Fields et al. 1993 Fields et al. 1993 Walters et al. 2003 Bell 1981 Cliff et al. 1997 Perttula and Nelson 2006b Perttula and Nelson 2006b Perttula and Nelson 2000a Perttula and Nelson 1999 | ca. A.D. 900-1200 ca. A.D. 1430-1680 ca. A.D. 1200-1430 ca. A.D. 1200-1430 ca. A.D. 1000-1200 ca. A.D. 1200-1450 ca. A.D. 1240-1450 ca. A.D. 1430-1680 ca. A.D. 1680-1730 ca. A.D. 1680-1730 ca. A.D. 1400-1650 ca. A.D. 1430-1680 |
| 41TT396 41TT400 41DT6 41DT16 41TT769 41TT13 41BW600 41H0211 41H0211 41H0214 41SM272 41CP314 41CP317 41CP304 41CP315 41SM272 41SM272 41SM272 41SM272 41SM273 41SM100 16SA101 16SA101 16SA204 16SA204 16SA308 16SA308 | | 6.50 8.20 14.10 13.60 18.70 1.90 | | 1.0 [stamped] | 46 98 64 103 91 52 15 70 172 21 33 129 | Nash et al. 1995 Nash et al. 1995 Fields et al. 1993 Fields et al. 1993 Walters et al. 2003 Bell 1981 Cliff et al. 1997 Perttula and Nelson 2006b Perttula and Nelson 2006b Perttula and Nelson 2000a Perttula and Nelson 1999 | ca. A.D. 1430-1680 ca. A.D. 1200-1430 ca. A.D. 1000-1200 ca. A.D. 1000-1200 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1200-1400 Ca. A.D. 1680-1730 Ca. A.D. 1680-1730 ca. A.D. 1400-1650 ca. A.D. 1400-1650 ca. A.D. 1430-1680 |
| 410T6 410T16 410T16 410T16 410T16 411T13 4180W600 41H0211 41H0214 41SM272 41CP317 41CP317 41CP304 41CP315 41SM272 41SM272 41SM272 41SM272 41SM273 41SM273 41SY100 16SA101 16SA201 16SA201 16SA308 16SA308 | | 14.10 13.60 18.70 1.90 12.10 6.20 8.00 6.70 3.70 | | 1.0 [stamped] | 64 103 91 52 15 70 172 21 33 129 | Fields et al. 1993 Fields et al. 1993 Walters et al. 2003 Bell 1981 Cliff et al. 1997 Perttula and Nelson 2006b Perttula and Nelson 2006b Perttula and Nelson 2000a Perttula and Nelson 1999 | ca. A.D. 1000-1200 ca. A.D. 1000-1200 ca. A.D. 1200-1450 ca. A.D. 1200-1450 ca. A.D. 1430-1680 ca. A.D. 1680-1730 ca. A.D. 1680-1730 ca. A.D. 1400-1650 ca. A.D. 1440-1650 |
| 41DT16 41TT169 41TT13 41BW600 41H0211 41H0211 41H0214 41CP314 41CP314 41CP314 41CP314 41CP315 41SW272 41SW272 41SW272 41SW273 41SY100 16SA17 16SA204 16SA204 16SA308 16SA308 | | 13.60 18.70 1.90 12.10 6.20 8.00 6.70 3.70 | | | 103 91 52 15 70 172 21 33 129 | Fields et al. 1993 Walters et al. 2003 Bell 1981 Cliff et al. 1997 Perttula and Nelson 2006b Perttula and Nelson 2006b Perttula and Nelson 2000a Perttula and Nelson 1999 | ca. A.D. 1000-1200 ca. A.D. 1200-1450 ca. A.D. 1430-1680 ca. A.D. 1200-1400 Ca. A.D. 1680-1730 ca. A.D. 1680-1730 ca. A.D. 1400-1650 ca. A.D. 1430-1680 |
| 41TT769 41TT13 41BW600 41H0211 41H0214 41SM272 41CP317 41CP317 41CP315 41SM272 41SM272 41SM272 41SM273 41SM273 41SM201 16SA101 16SA101 16SA204 16SA308 16SA308 | | 18.70 1.90 12.10 6.20 8.00 6.70 3.70 | | | 91 52 15 70 172 21 33 129 | Walters et al. 2003 Bell 1981 Cliff et al. 1997 Perttula and Nelson 2006b Perttula and Nelson 2006b Perttula and Nelson 2000a Perttula and Nelson 1999 | ca. A.D. 1200-1450 ca. A.D. 1430-1680 ca. A.D. 1200-1400 Ca. A.D. 1680-1730 ca. A.D. 1680-1730 ca. A.D. 1400-1650 ca. A.D. 1430-1680 |
| 41TT13 41BW600 41H0211 41H0211 41H0214 41SM272 41CP314 41CP317 41CP304 41CP315 41SM272 41SM272 41SM272 41SM273 41SY100 16SA101 16SA101 16SA217 16SA204 16SA62 16SA308 16SA378 | | 1.90 12.10 6.20 8.00 6.70 3.70 | | | 52 15 70 172 21 33 129 | Bell 1981 Cliff et al. 1997 Perttula and Nelson 2006b Perttula and Nelson 2006b Perttula and Nelson 2000a Perttula and Nelson 1999 | ca. A.D. 1430-1680 ca. A.D. 1200-1400 Ca. A.D. 1680-1730 Ca. A.D. 1680-1730 ca. A.D. 1400-1650 ca. A.D. 1430-1680 |
| 41H0211 41H0214 41SM272 41CP314 41CP317 41CP304 41CP315 41SM272 41SM272 41SM272 41SM273 41SY100 16SA101 16SA101 16SA204 16SA62 16SA308 16SA37B | | 6.20 8.00 6.70 3.70 | | | 70 172 21 33 129 | Perttula and Nelson 2006b Perttula and Nelson 2006b Perttula and Nelson 2000a Perttula and Nelson 1999 | Ca. A.D. 1680-1730 Ca. A.D. 1680-1730 ca. A.D. 1400-1650 ca. A.D. 1430-1680 |
| 41H0214 41SM272 41CP314 41CP317 41CP304 41CP315 41SM272 41SM273 41SY100 16SA101 16SA101 16SA204 16SA204 16SA30B 16SA30B | | 6.20 8.00 6.70 3.70 | | | 172 21 33 129 | Perttula and Nelson 2006b Perttula and Nelson 2000a Perttula and Nelson 1999 | Ca. A.D. 1680-1730 ca. A.D. 1400-1650 ca. A.D. 1430-1680 |
| 41SM272 41CP314 41CP317 41CP304 41CP315 41SM272 41SM272 41SM272 41SM273 65A101 16SA101 16SA204 16SA204 16SA308 16SA37B | | 6.20 8.00 6.70 3.70 | | | 21 33 129 | Perttula and Nelson 2000a Perttula and Nelson 1999 | ca. A.D. 1400-1650 ca. A.D. 1430-1680 |
| 41CP314 41CP317 41CP304 41CP315 41SM272 41SM273 41SY100 16SA101 16SA17 16SA204 16SA62 16SA308 16SA37B | | 6.20 8.00 6.70 3.70 | | | 33 129 | Perttula and Nelson 1999 | ca. A.D. 1430-1680 |
| 41CP304 41CP315 41SM272 41SM273 41SY100 16SA101 16SA17 16SA204 16SA62 16SA30B 16SA37B | | 8.00 6.70 3.70 | | | | Portfula and Nolcon 1000 | |
| 41CP315 41SM272 41SM273 41SY100 16SA101 16SA17 16SA204 16SA62 16SA30B 16SA37B | | 6.70 3.70 | | | | Perttula and Nelson 1999 | ca. A.D. 1430-1680 |
| 41SM272 41SM273 41SY100 16SA101 16SA17 16SA204 16SA62 16SA30B 16SA37B | | 3.70 | | | 112 30 | Perttula and Nelson 1998 Perttula and Nelson 1998 | ca. A.D. 1430-1680 ca. A.D. 1430-1680 |
| 41SM273 41SY100 16SA101 16SA201 16SA204 16SA62 16SA30B 16SA37B | | | | | 27 | Perttula and Nelson 2001 | ca. A.D. 1400-1650 |
| 16SA101 16SA17 16SA204 16SA62 16SA30B 16SA37B | | | | | 86 | Perttula and Nelson 2001 | ca. A.D. 900-1200 |
| 16SA17 16SA204 16SA62 16SA30B 16SA37B | | | | | 27 | Benham et al. 1973 | ca. A.D. 1000-1200 |
| 16SA204 16SA62 16SA30B 16SA37B | | | | | 296 | Benham et al. 1973 | ca. A.D. 1000-1200 |
| 16SA62 16SA30B 16SA37B | | | 1.50 | | 2298 1498 | Benham et al. 1973 Kelley 2006 | ca. A.D. 1400-1680 ca. A.D. 1500-1600 |
| 16SA37B | | | | 0.02 [lip notched] | 4871 | Woodall 1969 | ca. A.D. 1400-1680 |
| | | | | | 1263 | Woodall 1969 | ca. A.D. 1400-1680 |
| 103A37A | | | 0.20 | 0.1 [stamped] | 1210 451 | McClurkan et al. 1966 McClurkan et al. 1966 | ca. A.D. 1400-1680 ca. A.D. 1400-1680 |
| 16SA30A | | | | | 131 | McClurkan et al. 1966 | ca. A.D. 1400-1680 |
| 41TT110 | | 29.50 | | | 6361 | Thurmond 1990 | ca. A.D. 1200-1400 |
| 41UR1 | | 9.00 | | | 199 | Thurmond 1990 | ca. A.D. 1430-1680 |
| 41UR3 | | 0.70 | 0.30 | | 298 122 | Thurmond 1990 Thurmond 1990 | ca. A.D. 1430-1680 ca. A.D. 1430-1680 |
| 41UR13 41UR14 | | 1.70 | | | 706 | Thurmond 1990 | ca. A.D. 1430-1680 |
| 41UR18 | | 3.00 | | | 722 | Thurmond 1990 | ca. A.D. 1430-1680 |
| 41WD16 | | 4.10 | | | 145 | Thurmond 1990 | ca. A.D. 1430-1680 |
| 41CP8 41CP14 | | 2.20 | | | 1565 624 | Thurmond 1990 Thurmond 1990 | ca. A.D. 1430-1680 |
| 41CF14 41FK4 | | 4.30 | | | 164 | Thurmond 1990 Thurmond 1990 | ca. A.D. 1200-1430 ca. A.D. 1430-1680 |
| 41MX6 | | 3.30 | | | 91 | Thurmond 1990 | ca. A.D. 1200-1430 |
| 41MX8 | | 1.30 | 1.30 | | 152 | Thurmond 1990 | ca. A.D. 1430-1680 |
| 41TT4 41TT6 | | 3.10 4.30 | | | 129 94 | Thurmond 1990 Thurmond 1990 | ca. A.D. 1430-1680 ca. A.D. 1200-1430 |
| 41TT17 | | 6.10 | 0.80 | | 132 | Thurmond 1990 | ca. A.D. 1200-1430 ca. A.D. 1430-1680 |
| 41TT28 | | | | | 915 | Thurmond 1990 | ca. A.D. 1430-1680 |
| 41TT52 | | 7.50 | | | 173 | Thurmond 1990 | ca. A.D. 1200-1430 |
| 41CP15 | | 28.20 | | | 39 | Thurmond 1990 | ca. A.D. 1200-1430 |
| 41HS1 41HS10 | | 1.90 | | | 54 53 | Thurmond 1990 Thurmond 1990 | ca. A.D. 1430-1680 ca. A.D. 1430-1680 |
| 41HS11 | | | 0.60 | | 332 | Thurmond 1990 | ca. A.D. 1430-1680 |
| 41MR6 | | 1.50 | | | 67 | Thurmond 1990 | ca. A.D. 1430-1680 |
| 41MR13 41MR31 | | 2.20 | | | 41 46 | Thurmond 1990 Thurmond 1990 | ca. A.D. 1430-1680 ca. A.D. 1430-1680 |
| 41MX22 | | 2.00 | | | 49 | Thurmond 1990 | ca. A.D. 1430-1680 |
| 41TT18 | | 9.30 | | | 43 | Thurmond 1990 | ca. A.D. 1430-1680 |
| 41TT151 | | | | | 58 | Thurmond 1990 | ca. A.D. 1200-1430 |
| 41UR15 41CP3 | | 4.30 | | | 58 94 | Thurmond 1990 Thurmond 1990 | ca. A.D. 1430-1680 ca. A.D. 1430-1680 |
| 41CP71 | | 4.70 | 0.20 | | 2591 | Perttula 2014a | ca. A.D. 1430-1680 |
| 41CP55 | | | | | 65 | Perttula and Nelson 2014 | ca. A.D. 1430-1680 |
| 41LR2 | | 22.20 | | | 18 | Perttula et al. 2014b | ca. A.D. 1100-1300, 1680-1730 |
| 41GG5 | | 22.20 | | | 50 | Perttula et al. 20140 Perttula and Nelson 2013 | ca. A.D. 1200-1400 |
| 41GG50 | | | | | 42 | Perttula and Nelson 2013 | ca. A.D. 1200-1430 |
| 41BW3, VP 1 | | 4.80 | 19.90 | | 332 | Perttula 2014b | ca. A.D. 1100-1600 |
| 41BW4 | | 3.40 0.10 | 6.00 | 0.05 [stemmed] | 268 2096 | Perttula 2014c Perttula 2014d | ca. A.D. 1200-1500 |
| 41RK19 | | 0.10 | | 0.05 [stamped] 0.1 [li[notched]; 0.2 | 2090 | Perttula 20140 | ca. A.D. 1200-1430 |
| 41BW2 | | 2.00 | 1.00 | [rough] | 1223 | Perttula 2014e | ca. A.D. 1500-1700 |
| 41TT12 | | 3.10 | | | 352 | Perttula 2014f | ca. A.D. 900-1200 |
| 41TT11 41NA317 | | 11.20 | | | 509 | Perttula 2014f | ca. A.D. 1200-1430 |
| 41CE299 | | | | | 50 154 | Perttula 2013h Perttula and Nelson 2000b | ca. A.D. 1680-1730 ca. A.D. 1400-1650 |
| 41SM404 | | 6.50 | | | 448 | Nash et al. 2012 | ca. A.D. 1200-1400 |
| 41RK240 | | | | | 187 | Sherman 2001 | ca. A.D. 1200-1400 |
| 41RK242 | | 1.30 | | | 78 | Sherman 2001 | ca. A.D. 1200-1400 |
| 41RK243 41UR106 | | 6.30 | | | 280 380 | Sherman 2001 Parsons 2011 | ca. A.D. 1200-1400 ca. A.D. 1430-1680 |
| 41UR106B | | 1.60 | | 0.5 [painted] | 183 | Parsons 2011 Parsons 2011 | ca. A.D. 1430-1680 ca. A.D. 1430-1680 |
| 41UR109 | | 0.30 | | 0.3 [painted] | 328 | Parsons 2011 | ca. A.D. 1430-1680 |
| 41UR118 | | | | | 1120 | Parsons 2011 | ca. A.D. 1430-1680 |
| 41UR129 41UR133, Saddle | | 2.00 | | | 295 161 | Parsons 2011 Parsons 2011 | ca. A.D. 1430-1680 ca. A.D. 1200-1430 |
| 41LR297 | | | | | 88 | Perttula 2009g | ca. A.D. 1200-1430 |
| 41SY323 | | 2.30 | | | 88 | Perttula 2010c | ca. A.D. 1500-1680 |
| 41RK557 | | | | | 163 | Dockall and Fields 2011 | ca. A.D. 1300-1600 |
| 41HS269 | | 0.20 | | 0.1 [lin patabod] | 42 | Griffith et al. 2012 | ca. A.D. 1430-1680 |
| 41PN175 41HS12 | | 0.20 1.40 | | 0.1 [lip notched] | 1798 558 | Perttula 2014g Goode et al. 2014 | ca. A.D. 1300-1500 ca. A.D. 900-1200 |
| 41CP408 | 0.10 | 5.40 | | 0.3 [Lip notched] | 729 | Perttula and Ellis 2012 | ca. A.D. 1200-1450 |
| 41AN21 | | 1.40 | | | 147 | Marceaux 2011 | ca. A.D. 1680-1730 |
| 41CE39 | | | | | 124 | Marceaux 2011 | Ca. A.D. 1680-1730 |
| 41NA321 41CE20 | | | | | 89 182 | Marceaux 2011 Marceaux 2011 | ca. A.D. 1680-1730 ca. A.D. 1680-1730 |
| 41CE48 | | | | | 194 | Marceaux 2011 Marceaux 2011 | ca. A.D. 1680-1730 |
| 41CE293 | | | | 6.9 [Grooved] | 519 | Marceaux 2011 | ca. A.D. 1680-1730 |

Table 1. East Texas Caddo ceramic sherd database, cont.

| Trinomial | Tgrog | Tbone | Tshell | Tgrog-bone | Psandy | Freduced | Foxidized | Finc-oxidized | Fred-oxidized | Rfdirect | Rfinverted | Rfeverted | Lfrounded | Lfflat | Lfrounded-folded Lfbeveled | Pred | Pwhite | DMUWapplique |
|--------------|-------|-------|--------|------------|--------|----------|-----------|---------------|---------------|----------|------------|-----------|-----------|--------|----------------------------|------|--------|--------------|
| 41AG22 | 92.00 | 1.60 | | 6.40 | | 9.40 | 9.40 | 18.80 | 61.90 | 66.70 | | 33.30 | 92.90 | 7.10 | | | 1.20 | 0.60 |
| 41CE62 | 71.20 | 4.50 | | 24.20 | | 5.70 | 26.20 | 13.90 | 54.20 | | | | | | | | | |
| 41NA6 | 85.10 | 6.60 | | 7.70 | 0.50 | 12.60 | 13.70 | 17.10 | 56.60 | 71.40 | 14.30 | 14.30 | 66.70 | 22.20 | 11.10 | | | 0.30 |
| 41NA15 | 79.20 | 7.00 | | 13.90 | | 16.70 | 7.60 | 19.70 | 56.10 | 69.20 | | 30.80 | 64.30 | 21.40 | 14.30 | | 0.50 | 0.50 |
| 41NA44 | 64.20 | 21.70 | | 10.70 | 3.30 | 21.40 | 20.30 | 10.90 | 47.30 | 62.50 | 1.60 | 35.90 | 71.60 | 13.60 | 14.80 | | | 0.70 |
| 41NA54 | 73.50 | 10.80 | | 15.70 | | 13.10 | 4.80 | 15.50 | 66.70 | | | | | | | | | |
| 41NA21 | 27.60 | 42.80 | 0.40 | 28.80 | 0.50 | 22.60 | 12.20 | 13.90 | 51.20 | 52.20 | 8.70 | 39.10 | 80.00 | 14.50 | 5.70 | | 0.50 | 0.10 |
| 41NA22 | 57.20 | 20.60 | | 20.60 | 1.60 | 10.30 | 16.60 | 9.20 | 63.90 | 78.10 | | 21.90 | 83.30 | 7.30 | 9.10 | | 0.10 | 0.10 |
| 41NA23 | 84.50 | 5.50 | | 9.50 | 0.30 | 11.50 | 22.90 | 16.70 | 48.90 | 73.50 | | 26.50 | 64.40 | 17.80 | 17.80 | | | 0.30 |
| 41NA111 | 59.60 | 22.20 | | 18.20 | | 9.10 | 11.10 | 17.20 | 62.60 | | | | | | | | | 0.50 |
| 41NA183 | 64.30 | 13.20 | 1.00 | 21.40 | | 24.00 | 12.50 | 5.20 | 58.30 | | | | | | | | | 0.40 |
| 41NA206 | 56.40 | 31.50 | 0.80 | 10.20 | 1.00 | 34.10 | 22.00 | 8.30 | 35.80 | 77.50 | | 22.50 | 67.50 | 6.10 | 26.50 | | 0.02 | 0.20 |
| 41NA67 | 75.50 | 6.30 | | 18.10 | | 29.70 | 6.30 | 10.90 | 53.10 | 62.50 | | 37.50 | 85.70 | 2.40 | 11.90 | | | |
| 41SA94 | 58.50 | 18.10 | 0.70 | 22.90 | | 13.60 | 7.80 | 9.60 | 68.90 | 88.90 | 3.00 | 8.10 | 53.30 | 20.00 | 26.70 | | | 0.20 |
| 41SA25 | 1.30 | 75.20 | 12.90 | 5.50 | 5.40 | | | | | 68.80 | 3.10 | 28.10 | 73.00 | 8.10 | 18.90 | | | |
| 41BW3, Mound | | | | | | | | | | | | | | | | | | 9.90 |
| 41SA25 | 1.70 | 79.20 | 10.80 | 8.60 | 0.10 | | | | | 18.90 | 11.70 | 69.40 | | | | | | |
| 41WD577 | 76.20 | 1.00 | | 18.60 | 4.10 | | | | | 89.50 | | 10.50 | 38.50 | 42.30 | 19.20 | | | 2.00 |
| 41SY43 | 51.50 | 48.40 | | | | | | | | | | | | | | | | 0.20 |
| 41SY279 | 24.00 | 76.00 | | | | | | | | | | | | | | | | 1.10 |
| 41SY280 | 18.30 | 81.70 | | | | | | | | | | | | | | | | 1.50 |
| 41LR2 | 72.40 | 11.70 | 15.90 | | | | | | | | | | | | | | | 5.40 |
| 41SY41 | 69.80 | 30.20 | | | | | | | | | | | | | | | | 1.60 |
| 41SY45 | 53.70 | 46.30 | | | | | | | | | | | | | | | | |
| 41SY27 | 17.00 | 83.00 | | | | | | | | | | | | | | | | 4.50 |
| 41LR2, NMNH | 68.00 | 13.40 | 18.60 | | | | | | | | | | | | | | | 5.20 |
| 41GG69 | 84.40 | 15.60 | | | | | | | | | | | | | | | | 0.40 |
| 41FN1 | 49.30 | 10.30 | 40.40 | | | | | | | | | | | | | | | |
| 41LR1 | 71.40 | 10.00 | 18.50 | | | | | | | | | | | | | | | 3.10 |
| 41WD3 | 99.40 | 0.60 | | | | | | | | | | | | | | | | 11.70 |
| 41TT851 | 64.00 | 10.30 | | 25.50 | | | | | | | | | | | | | | 2.40 |
| 41TT852 | 45.30 | 8.30 | | 46.40 | | | | | | | | | | | | | | 3.00 |
| 41TT853 | 65.30 | 1.90 | | 32.80 | | | | | | | | | | | | | | 0.60 |
| 41WD6 | 95.20 | 4.80 | | | | | | | | | | | | | | | | 15.80 |
| 41WD1 | 96.90 | 3.10 | | | | | | | | | | | | | | | | 4.80 |

Table 1. East Texas Caddo ceramic sherd database, cont.

| Trinomial | DMUWappliqued-brushed | DMUWappliqued-incised | DMUWappliqued-punctate | d DMUWbrushed DI | MUWbrushed-incised | DMUWbrushed-punctated D | MUWbrushed-applique | ed DMUWincised DI | MUWincised-pund |
|------------|-----------------------|-----------------------|------------------------|------------------|--------------------|-------------------------|---------------------|-------------------|-----------------|
| 11AG22 | | | | 87.70 | 0.60 | 1.80 | 0.60 | 1.20 | 1.20 |
| 11CE62 | | | | 90.50 | | | | 5.40 | |
| 1NA6 | | | 0.10 | 78.80 | 1.60 | 2.10 | 0.70 | 4.30 | 0.30 |
| INA15 | | | | 60.50 | 2.20 | 3.20 | 1.60 | 2.70 | 0.50 |
| INA44 | 1.40 | | 0.60 | 55.70 | 5.80 | 5.10 | | 7.20 | 1.90 |
| INA54 | 1.10 | | | 72.00 | 8.50 | 3.20 | | 5.80 | 0.50 |
| NA21 | | | 0.03 | 68.90 | 0.30 | 0.40 | | 6.90 | 0.20 |
| NA22 | 3.80 | 0.03 | 0.70 | 77.40 | 1.60 | 3.60 | | 3.40 | 0.10 |
| INA23 | 0.80 | | 0.70 | 76.90 | 1.00 | 1.90 | | 6.30 | 0.70 |
| INA111 | 1.90 | | 0.90 | 79.70 | 1.90 | 2.30 | | 1.40 | |
| INA183 | | | 1.30 | 58.00 | 1.70 | 1.30 | | 10.90 | 3.40 |
| INA206 | 0.50 | | 0.20 | 52.60 | 2.80 | 0.60 | | 12.30 | 1.40 |
| NA67 | | | | 16.20 | | 1.00 | | 24.80 | 10.00 |
| SA94 | 0.60 | | | 46.00 | 1.00 | 2.60 | | 12.60 | 5.00 |
| SA25 | | 0.10 | | 0.60 | 0.10 | | | 35.60 | 0.80 |
| BW3, Mound | | | | 12.40 | | | | 36.60 | |
| SA25 | | | | | | | | 29.10 | 3.40 |
| WD577 | | | 5.00 | 1.00 | 1.00 | 2.00 | | 21.80 | 6.00 |
| SY43 | | 0.10 | | 66.30 | 3.00 | 1.80 | 1.00 | 9.00 | 0.60 |
| SY279 | | 1.10 | | 52.80 | | | 2.20 | 20.90 | 1.10 |
| LSY280 | | | | 55.70 | 6.30 | 0.40 | | 17.30 | 0.30 |
| LR2 | | | | 1.20 | | | | 15.00 | |
| SY41 | | | | 45.20 | 3.20 | 6.50 | | 9.00 | 9.50 |
| SY45 | | | | 62.70 | 5.90 | 4.90 | | 8.60 | 3.20 |
| SY27 | | | | 87.20 | | 0.80 | 0.80 | 1.70 | |
| LR2, NMNH | | | 0.40 | 0.40 | | | | 10.90 | 1.50 |
| GG69 | | 0.20 | | 13.30 | 3.50 | 1.80 | | 24.40 | 21.90 |
| IFN1 | | | | 3.60 | | | | 28.60 | |
| ILR1 | | 0.30 | 0.60 | 3.90 | 0.60 | 0.30 | | 31.90 | 1.40 |
| .WD3 | | | | 21.10 | 8.80 | | 4.10 | 2.90 | |
| TT851 | | | 0.70 | 11.50 | | 0.50 | 0.20 | 18.10 | 2.70 |
| TT852 | | 0.30 | 0.70 | 32.60 | | 1.50 | 0.70 | 17.70 | 2.50 |
| TT853 | | 0.10 | 0.40 | 43.20 | | 2.70 | 2.50 | 15.00 | 4.60 |
| IWD6 | | | 1.40 | 3.40 | 0.50 | | | 12.50 | 1.00 |
| IWD1 | | | 1.00 | 5.80 | | | | 43.30 | 1.00 |

Table 1. East Texas Caddo ceramic sherd database, cont.

| Trinomial | DMUWneck banded | DMUWpinched | DMUWtool punctated | DMUWfingernail punctated | DMUWcircular punctated I | OMUWcane punctate | ed DMUWridged | DMFengpunct. | DMFWengraved [| OMFWengraved-applique |
|--------------|-----------------|-------------|--------------------|--------------------------|--------------------------|-------------------|---------------|--------------|----------------|-----------------------|
| 41AG22 | | | | | | | | | 4.30 | |
| 41CE62 | | | | | | | | | 3.40 | |
| 41NA6 | | 1.50 | | | | | | | 7.70 | |
| 41NA15 | 0.50 | 0.50 | | | | | | | 23.20 | |
| 41NA44 | 0.10 | 1.10 | | | | | | 0.10 | 12.00 | |
| 41NA54 | | 1.10 | | | | | | | 5.80 | |
| 41NA21 | 0.20 | | | | | | | | 10.50 | |
| 41NA22 | | 0.30 | | | | | | | 6.40 | |
| 41NA23 | 0.70 | 0.20 | | | | | | | 8.00 | |
| 41NA111 | 0.50 | 0.50 | | | | | | | 6.90 | |
| 41NA183 | | | | | | | | 0.40 | 8.40 | |
| 41NA206 | 0.10 | 0.40 | | | | | | | 22.30 | |
| 41NA67 | | | 21.50 | 2.40 | | | | | 23.80 | |
| 41SA94 | | 0.30 | | | | | | | 24.90 | |
| 41SA25 | | | | | | | | | 59.30 | |
| 41BW3, Mound | 2.00 | | | | | | | | 8.10 | |
| 41SA25 | | | 2.00 | 0.50 | 0.20 | | | | 64.80 | |
| 41WD577 | | | 6.90 | 8.90 | 6.90 | | | | 20.00 | |
| 41SY43 | | | 3.40 | 0.10 | | | 0.30 | 0.30 | 13.50 | |
| 41SY279 | | | 4.40 | | | | 4.40 | | 9.90 | |
| 41SY280 | | | 2.80 | 0.10 | | | 6.80 | 0.10 | 5.00 | |
| 41LR2 | 3.00 | | 3.00 | 4.20 | 1.20 | 0.60 | | | 51.50 | |
| 41SY41 | | | 5.30 | 2.10 | 1.10 | | | | 16.00 | |
| 41SY45 | | | 4.90 | 0.50 | | | | | 9.30 | |
| 41SY27 | | | | | | | 0.80 | | 4.10 | |
| 41LR2, NMNH | 7.90 | 0.40 | 2.20 | 9.00 | 1.10 | 0.40 | | | 36.90 | |
| 41GG69 | | 0.50 | 12.30 | 1.60 | 3.00 | 0.20 | 0.20 | | 16.10 | 0.20 |
| 41FN1 | | | 3.60 | 1.80 | | | | | 8.90 | |
| 41LR1 | 0.90 | 0.30 | 6.80 | 5.90 | | | | | 33.30 | |
| 41WD3 | 12.30 | | 0.60 | 2.90 | | | | | 30.40 | |
| 41TT851 | 0.50 | 5.60 | 16.40 | 17.90 | | | | | 23.30 | |
| 41TT852 | 0.30 | 1.20 | 11.80 | 5.90 | | | | | 21.90 | |
| 41TT853 | 0.50 | 2.70 | 6.20 | 4.60 | | | | | 17.10 | |
| 41WD6 | 30.30 | | 3.80 | 0.50 | | | | | 25.00 | |
| 41WD1 | | 1.00 | 5.80 | 3.90 | 1.00 | | | | 14.40 | |

Table 1. East Texas Caddo ceramic sherd database, cont.

| Trinomial | DMFWengraved-brushed | DMFWred-slipped | DMFWtrailed | Other decorative method | No. of decorated sherds | Reference | Estimated age |
|--------------|----------------------|-----------------|-------------|---|-------------------------------|---------------------------|---------------------|
| 41AG22 | | | | | 163 | Marceaux 2011 | ca. A.D. 1680-1730 |
| 41CE62 | | | | | 148 | Marceaux 2011 | Ca. A.D. 1680-1730 |
| 41NA6 | 0.70 | | | 0.1 [Grooved] | 673 | Marceaux 2011 | Ca. A.D. 1680-1730 |
| 41NA15 | 1.60 | | | 1.6 [Grooved] | 185 | Marceaux 2011 | Ca. A.D. 1680-1730 |
| 41NA44 | 0.30 | | 0.10 | 0.8 [Grooved] | 1812 | Marceaux 2011 | Ca. A.D. 1680-1730 |
| 41NA54 | | | | | 189 | Marceaux 2011 | Ca. A.D. 1680-1730 |
| 41NA21 | 0.10 | | 0.02 | 0.03 [Lip notched] | 9819 | Marceaux 2011 | ca. A.D. 1680-1730 |
| | | | | 0.4 [grooved]; 0.2 [lip | | | |
| 41NA22 | 0.10 | | | notch] | 2874 | Marceaux 2011 | Ca. A.D. 1680-1730 |
| 41NA23 | 0.10 | | | 0.6 [grooved] | 2301 | Marceaux 2011 | Ca. A.D. 1680-1730 |
| 41NA111 | | | | 0.5 [grooved] | 217 | Marceaux 2011 | Ca. A.D. 1680-1730 |
| 41NA183 | 0.40 | | | | 238 | Marceaux 2011 | Ca. A.D. 1680-1730 |
| | | | | 0.4 [grooved]; 0.1 [lip | | | |
| 41NA206 | 0.02 | | 0.02 | notch] | 4156 | Marceaux 2011 | Ca. A.D. 1680-1730 |
| 41NA67 | | | 0.50 | | 210 | Marceaux 2011 | Ca. A.D. 1680-1730 |
| 41SA94 | | | | 0.1 [lip notched] | 1195 | Marceaux 2011 | ca. A.D. 1500-1700 |
| 41SA25 | | | | | 1940 | Marceaux 2011 | ca. A.D. 1720-1770 |
| 41BW3, Mound | | 8.10 | 7.30 | 6.3 [roughened] | 6198 | Perttula 2014b | ca. A.D. 1400-1690 |
| 41SA25 | | | | | 441 | Corbin et al. 1990 | ca. A.D. 1720-1770 |
| 41WD577 | | 18.90 | | | 101 | Perttula and Gilmore 1988 | ca. A.D. 1200-1430 |
| 41SY43 | | | 0.30 | | 873 | Selden and Perttula 2014 | ca. A.D. 1400-1600 |
| 41SY279 | | | 1.10 | 1.1 [Lip notched] 0.1 {Impressed}; 0.1 | 91 | Selden and Perttula 2014 | ca. A.D. 1500-1600 |
| 41SY280 | | | 3.10 | [Stamped] | 753 | Selden and Perttula 2014 | ca. A.D. 1500-1600 |
| 41LR2 | | 14.40 | 0.60 | | 167 | Perttula et al. 2015 | ca. A.D. 1100-1700 |
| 41SY41 | | | | 0.5 [grooved] | 188 | Perttula 2014h | ca. A.D. 1400-1500 |
| 41SY45 | | | | | 185 | Perttula 2014i | ca. A.D. 1400-1500 |
| 41SY27 | | | | | 258 | Perttula and Selden 2014 | ca. A.D. 1450-1550 |
| | | | | | | | ca. A.D. 1100-1300, |
| 41LR2, NMNH | | 17.60 | 4.10 | 1.1 [lip notched]; 0.7, CCI | 266 | Perttula et al. 2015 | 1600-1740 |
| 41GG69 | | 0.50 | | | 570 | Perttula 2015a | ca. A.D. 1300-1400 |
| | | | | | | | ca. A.D. 1100-1300, |
| 41FN1 | | 51.80 | 1.80 | | 56 | Perttula 2015b | 1680-1730 |
| | | | | | | | ca. A.D. 1100-1300, |
| 41LR1 | | 10.20 | 0.30 | 0.3 [lip notched] | 354 | Perttula 2015c | 1680-1740 |
| 41WD3 | | 5.30 | | · · · · · · | 171 | Perttula 2015d | ca. A.D. 1430-1680 |
| 41TT851 | | | | | 408 | Fields et al. 2014 | ca. A.D.1250-1325 |
| 41TT852 | | | | | 745 | Fields et al. 2014 | ca. A.D. 1425-1500 |
| 41TT853 | | | | 0.1 [lip notched] | 787 | Fields et al. 2014 | ca. A.D. 1400-1500 |
| | | | | 1.0 [lip notched]; 1.4 | | | |
| 41WD6 | | 3.40 | | [grooved] | 208 | Perttula 2015e | ca. A.D. 1430-1600 |
| 41WD1 | | 17.30 | | 1.0 [lip notched] | 104 | Perttula 2015f | ca. A.D. 1200-1400 |

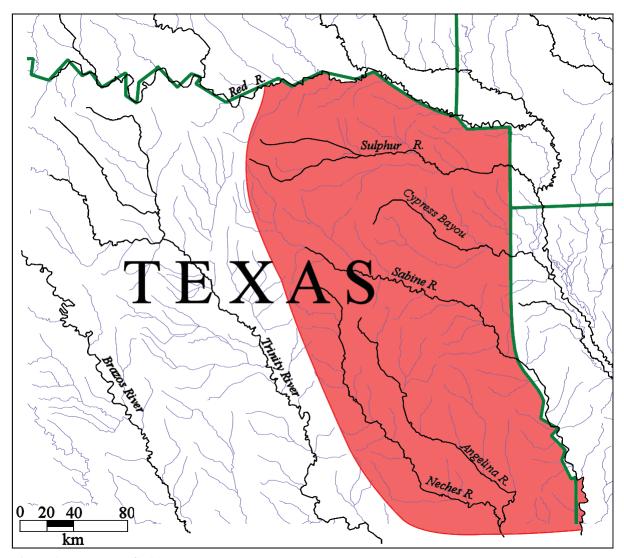


Figure 1. East Texas Caddo area.

circular punctated, cane punctated, and ridged) and fine wares (engraved, engraved-punctated, engraved-appliqued, engraved-brushed, red-slipped, and trailed), as well as other decorative methods (grooved, lip notched, corn cob impressed [CCI], cord impressed, fabric impressed, roughened, trailed-incised, painted, stamped); (g) number of decorated sherds; (h) reference; and (i) estimated age of the site and/or component assemblages, as best as can be determined from published analyses and reported calibrated radiocarbon dates. The focus on methods of decoration in the assemblages is in recognition of the fact that their differences across sites and assemblages provide an indication of regional variation in ceramic assemblages, and the broad categories of decoration "are less subject to inter-observer variation in classification than finer type designations" (Peeples and Roberts 2013:3003).

INITIAL INTERPRETATIONS

In this section, I review several interpretive findings from the ceramic sherd database regarding East Texas Caddo ceramics. These findings have barely plumbed the depths of the ceramic sherd database, but constitute a beginning effort at the identification of similarities in Caddo ceramic assemblages that likely have a basis in regional patterns of interaction within social networks (e.g., Mills et al. 2013) between differ-

ent Caddo communities. That is to say, the residents of different settlements of Caddo peoples with similar ceramic assemblages (however measured) were most likely to have interacted more frequently with each other than they did with other Caddo settlements with quite different and dissimilar ceramic assemblages.

Proportion of Engraved Fine wares

Engraved fine ware sherds are ubiquitous in East Texas Caddo ceramic assemblages for a millennium, from ca. A.D. 850 to A.D. 1838. However, there are significant temporal and spatial differences in the relative proportions of engraved sherds in decorated sherd assemblages. Sites where engraved sherds comprise more than 40 percent of decorated sherd assemblages are found in the Red, Big Cypress, upper and middle Sabine, the upper Neches, and the lower Angelina River basin (Figure 2). These are both habitation and mound sites, although all the mound sites with high proportions of engraved sherds are located in the Red River basin: these include Eli Moores (41BW2), Hatchel (41BW3/41BW169), Fasken (41RR14), and Sanders (41LR2) (see Table 1).

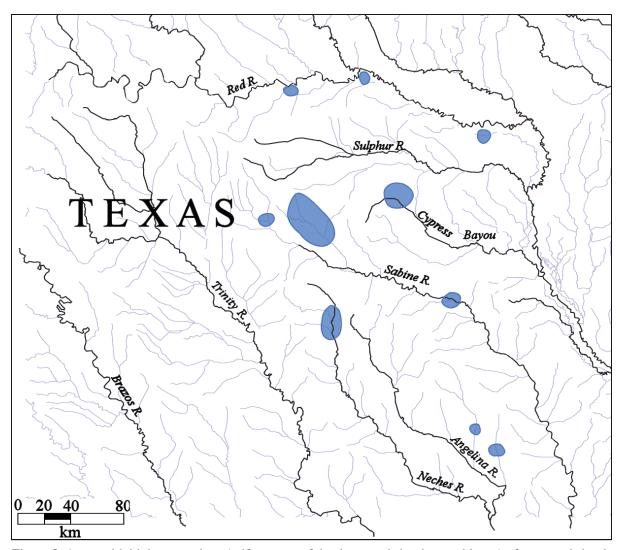


Figure 2. Areas with high proportions (>40 percent of the decorated sherd assemblages) of engraved sherds in East Texas Caddo sites.

Pre-A.D. 1400 sites (n=8) with considerable amounts of engraved sherds in decorated sherd assemblages are present in the upper and middle Sabine, Big Cypress, and the middle reaches of the Red River (see Figure 2). Sites where engraved sherds comprise more than 40 percent of the decorated sherd assemblages are much more common (n=27) in ca. A.D. 1400-1830 Caddo sites throughout East Texas, particularly in Titus phase sites in the upper Sabine River and Big Cypress Creek basins, Frankston phase sites in the upper Neches, and Historic Caddo sites in the upper and middle Sabine, Angelina, and Red River basins (see Table 1).

Use of Red-Slipped Ceramics

Red-slipped fine wares (bowls, carinated bowls, and an occasional bottle) are a common part of ancestral Caddo ceramic assemblages in several parts of East Texas, most notably in sites in the middle Red River, the Big Cypress Creek basin, the upper Sulphur and Sabine River basins, and the middle Sabine River basin (Figure 3). The virtual absence of red-slipped sherds in ceramic assemblages from the Neches and Angelina River basins is particularly notable.

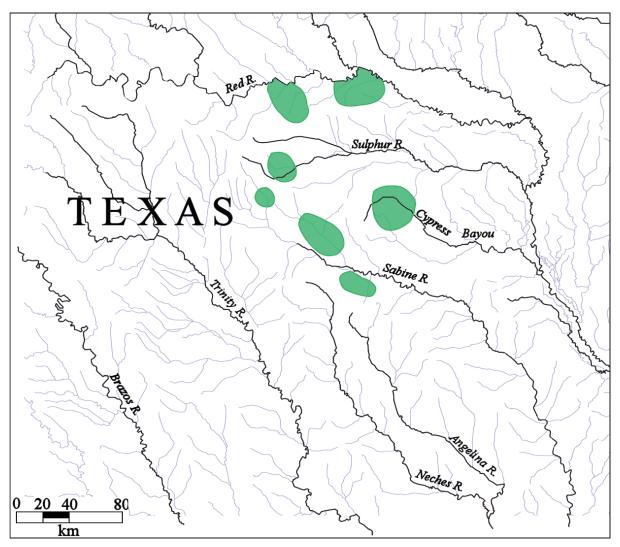


Figure 3. Caddo site clusters with high proportions (>10 percent of decorated ceramic assemblages) of red-slipped sherds in East Texas.

Pre-A.D. 1400 ceramic assemblages where red-slipped sherds are relatively abundant are well represented in the aforementioned areas, particularly at sites such as Jamestown (41SM54), A. C. Gibson (41WD1), Sam Kaufman (41RR16), A. C. Mackin (41LR31), Harling (41FN1), and Sanders (41LR2) on the Sabine and Red rivers, respectively, several sites in the upper Sulphur River basin (41DT54 and 41DT63), and 41TT110 on Big Cypress Creek (see Table 1).

Later ceramic assemblages (i.e., dating after A.D. 1400) with red-slipped sherds are found in these same areas, most notably in shell-tempered wares (Clement Redware, see Flynn 1976) in McCurtain phase sites on the middle reaches of the Red River (see Figure 3) and the ca. A.D. 1680-1740 components at the Harling (41FN1) and Sanders sites. Other Late Caddo sites where red-slipped sherds are common in assemblages include Titus phase sites in the Big Cypress and upper Sabine River basins and 41HP175 in the upper Sulphur River basin (see Table 1).

Trailed wares

Sherds with trailed decorative elements, likely from Keno Trailed bowls and bottles (see Suhm and Jelks 1962), are found in percentages greater than 2 percent in ceramic assemblages in only a few parts of East Texas, principally in sites on the Red River (Figure 4). These sites generally date between ca. A.D. 1400 (or later) and A.D. 1730. The highest proportion of trailed sherds in ceramic assemblages (7.3-30.8 percent) are found in various Texarkana phase village and mound areas at the Hatchel site (41BW3) on the Red River (Perttula 2014b).

Use of Brushed Ceramics

Sherds from brushed utility ware vessels, particularly jars, are a distinctive characteristic of both Middle, Late, and Historic Caddo sites in much of East Texas. It also appears to be the case that the relative proportions of brushed utility wares increase through time in those areas where brushed vessels were made and used, such that sherds with brushing marks may comprise as much as 90 percent of all the decorated sherds in some post-A.D. 1400 East Texas ceramic assemblages.

In the East Texas Caddo ceramic sherd database, only a few ca. A.D. 1200-1430 sites have assemblages with high proportions (>60 percent of the decorated sherd assemblage) of brushed sherds; these occur in the mid-Sabine and Big Cypress Creek drainage basins (see Table 1). Late Caddo ceramic assemblages in East Texas with high proportions of brushed sherds occur in the upper and mid-Neches (Frankston phase sites), Angelina, middle Sabine and Big Cypress (Titus phase sites), and sites (of unknown cultural taxonomy) on tributaries of the Sabine River west of the Toledo Bend Reservoir area (Figure 5). Caddo ceramic assemblages without considerable amounts of brushed sherds occur in the upper Sabine, Sulphur, and Red River basins.

Historic Caddo sites with high proportions of brushed sherds in ceramic assemblages are found principally in four parts of East Texas (see Figure 5). The first is in Allen phase sites (n=15) in the upper Neches River basin (there is also one mid-Neches River basin Historic Caddo site, 41HO91, with abundant brushed sherds), A.D. 1700-1730 Nasoni Caddo sites (n=3) in the western part of the Angelina River basin (Perttula et al. 2009), and other Allen phase sites/assemblages (n=18) in the central part of the Angelina River basin. One Historic Caddo Kinsloe phase site in the middle Sabine (41RK36) also has high proportions of brushed sherds in its decorated sherd assemblage (see Table 1).

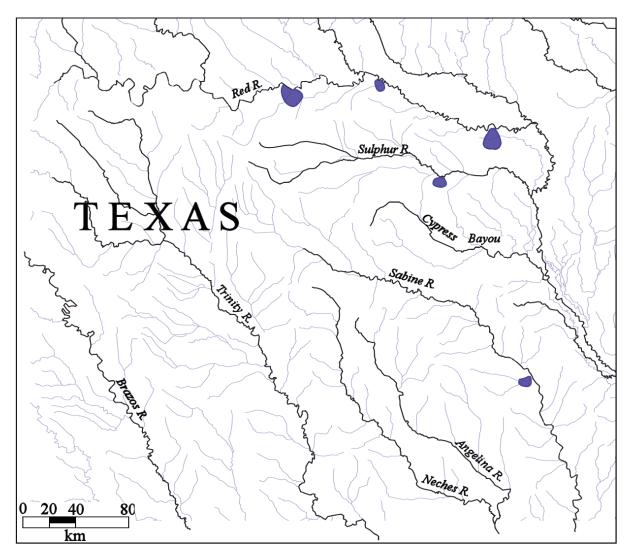


Figure 4. Distribution of sites where trailed sherds are most common in East Texas Caddo ceramic assemblages.

Ridged Ceramics

Ridged utility ware sherds (i.e., from Belcher Ridged jars, see Suhm and Jelks 1962:11 and Plate 6) are common (in proportions greater than 4.0 percent of decorated sherd assemblages) only in post-A.D. 1500 East Texas and western Louisiana Caddo communities in one locale along the Sabine River in the Toledo Bend Reservoir area (Figure 6). These are sites of undefined taxonomic affiliation, but they apparently are representative of "a local group whose ceramic tradition was distinct from Titus [phase] or Belcher [phase] in a number of ways. Certainly they had contacts with both these regions" (Kelley et al. 2010:26).

Belcher Ridged is one of the principal utility wares in Belcher phase sites on the Red River in north-western Louisiana and southwestern Arkansas (see Figure 6). This area is more than ca. 70 km north of the Sabine River sites where ridged pottery is relatively common. In Titus phase sites on the middle Sabine and in the Big Cypress Creek basin—west of Belcher phase communities and ca. 70 km or more northwest of the Toledo Bend Reservoir Caddo communities with ridged pottery—only between 0.2-2.2 percent of the decorated sherds in their ceramic assemblages are from ridged jars. It is suspected that these sherds are from vessels made either by Belcher phase or the aforementioned middle Sabine Caddo potters.

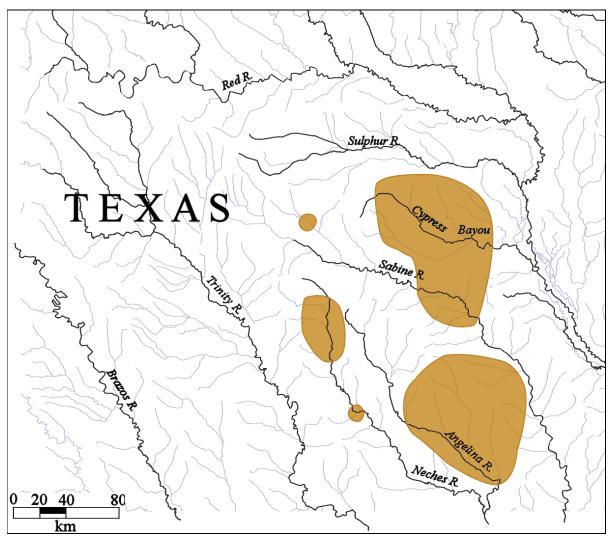


Figure 5. Caddo site clusters with high proportions (>60 percent of decorated ceramic assemblages) of brushed sherds in East Texas.

Other Utility Wares

Corn cob impressed

Corn cob impressed sherds (i.e., Anglin Corn Cob Impressed) have been identified in only five sites in the East Texas Caddo ceramic sherd database (see Table 1). These sites occur only in the upper Sabine, Sulphur, and Red River basins in the region (Figure 7). In three of the sites, the corn cob impressed sherds date after ca. A.D. 1550, while in the two other sites the corn cob impressed sherds are in ca. A.D. 1200-1400 ceramic assemblages.

Grooved

Utility ware jar sherds with grooved decorative elements (i.e., from Lindsey Grooved vessels, see Marceaux 2011) are distributed in two clusters of Caddo sites in the upper Neches and Angelina river basins (Figure 8). These sites all date after ca. A.D. 1680 to ca. A.D. 1750 and are historic Caddo sites associated

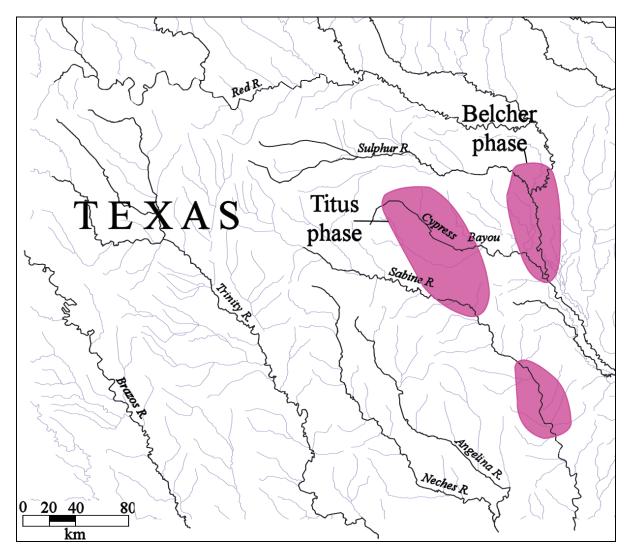


Figure 6. Distribution of sites where ridged ceramic sherds are present in East Texas, as well as the location of the Belcher phase and Titus phase sites with ridged ceramic sherds.

with the Allen phase (see Table 1). One grooved sherd from the Gilbert site (41RA13) in the upper Sabine River basin likely represents part of a vessel that was manufactured in one or the other of the two identified spatial clusters.

There are also a few grooved sherds from ca. A.D. 900-1300 contexts at three sites in the Neches, Red, and Sabine River basins, most notably at the George C. Davis site (41CE19). These grooved sherds are not related either stylistically or temporally with Lindsey Grooved wares, and are likely from Crenshaw Fluted vessels with deep vertical grooves or flutes (see Perttula and Selden 2015).

Lip Notched

The notching of the lips of vessels at the sole rim decoration is an apparently distinctive decorative method in a number of different Caddo communities of different ages in East Texas. The earliest assemblages (n=6), dating from ca. A.D. 900-1300, with lip notched vessels occur in the upper Red, upper and middle Sabine, and in the Angelina River basins (Figure 9).

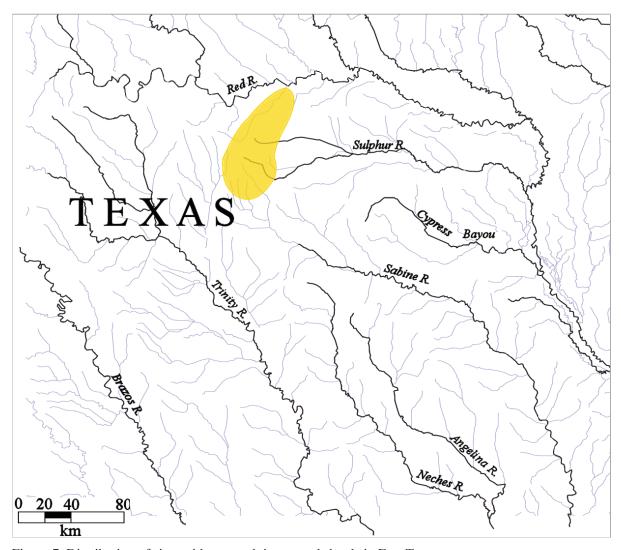


Figure 7. Distribution of sites with corn cob impressed sherds in East Texas.

Middle Caddo period communities where lip notched ceramics were made and eventually discarded (n=7) include the same previously mentioned assemblages, as well as sites in the Big Cypress Creek basin (see Figure 9). By post-A.D. 1400 times until the early 18th century, ceramic assemblages with lip notched vessels (n=10) occur more regularly in the upper Neches, middle Red River, middle Sabine, and the Angelina River basin (see Figure 9).

Neck Banded

Neck banded jars were a common utility ware in a number of ancestral Caddo communities occupied after ca. A.D. 1300 in East Texas (Figure 10), including both grog-bone and shell-tempered varieties. The highest proportions (23.6-79.6 percent of the decorated sherd assemblage) of neck banded sherds (shell-tempered) occur in ca. A.D. 1400-1680 McCurtain phase assemblages on the middle reaches of the Red River. Shell-tempered neck banded sherds (Nash Neck Banded) are also found in high percentages at other sites on the same age in other Red River communities (Figure 10) both upstream and downstream from the McCurtain phase sites; both grog/bone and shell-tempered neck banded sherds are found in these areas.

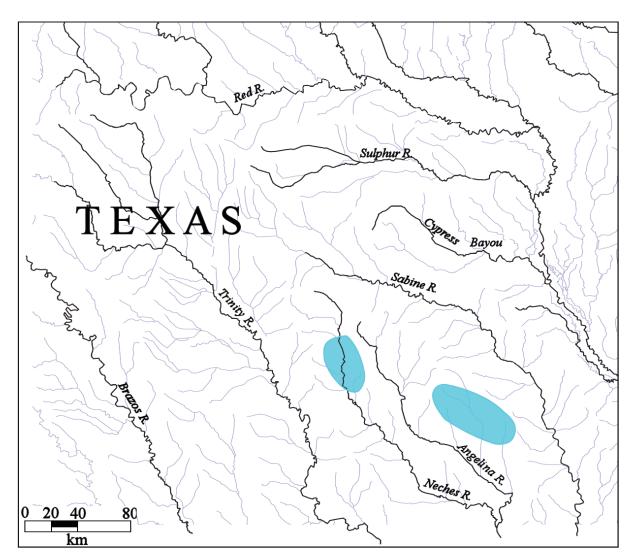


Figure 8. Distribution of East Texas Caddo sites with grooved sherds.

In other locales across East Texas, neck banded wares are almost exclusively grog/bone-tempered. These wares are found in sites in the upper Neches and upper Sabine River basins in Frankston (ca. A.D. 1400-1650) and Titus phase (ca. A.D. 1430-1680) contexts and in Titus phase ceramic assemblages in the Big Cypress Creek basin (see Figure 10). This ware has been classified as La Rue Neck Banded.

Spatial and Temporal Differences in Temper Use

The principal tempering materials used by East Texas Caddo potters from as early as ca. A.D. 850 were grog (crushed sherds) and burned bone. The use of grog temper occurs in East Texas Caddo assemblages in each of the river basins, irrespective of their age, but the common use of burned bone has distinct spatial and temporal distributions. So too does the use of burned mussel shell by Caddo potters, although its use is much more restrictive temporally and spatially than is burned bone (see Table 1).

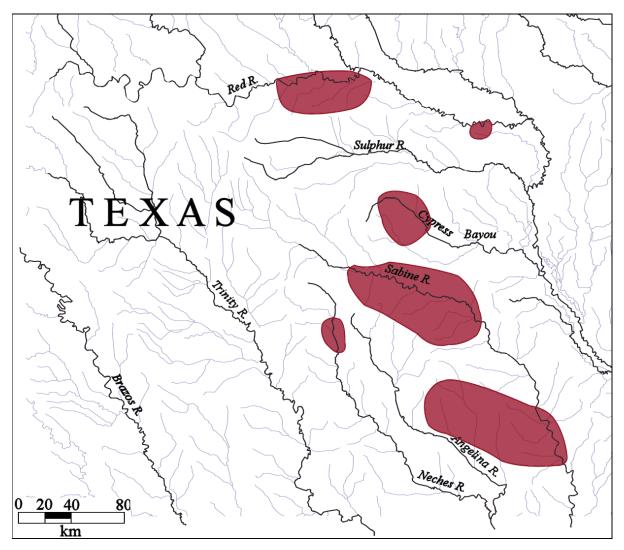


Figure 9. Distribution of Caddo site clusters with lip notched sherds in East Texas.

Bone-tempered ceramics

The use of burned animal bone for the temper of ceramic vessels is a distinctive characteristic of East Texas Caddo ceramic sherd assemblages, and most ceramic assemblages in the region have some bone-tempered sherds (see Table 1). However, sherd assemblages with high proportions (>40 percent of the sherd assemblage) of bone temper are concentrated in only a few locales across East Texas, most notably in the Toledo Bend Reservoir area along the middle Sabine River and in sites in the Angelina River basin (Figure 11). Bone-tempered sherds are not a notable feature of Caddo ceramic assemblages in the Neches, Big Cypress, Sulphur, or Red River basins.

Pre-A.D. 1400/1450 Caddo sites with a high proportion of bone temper are found only in a few areas in the middle Sabine River basin, including the Redwine site (41SM193) (see Table 1). Late Caddo (ca. A.D. 1400-1680) sites and assemblages with high proportions of bone temper are found in one site in the Trinity River basin (41HE70, Story 1965), and in several sites in the mid-Sabine and Angelina River basins (see Figure 11). In fact, these sites are part of a previously identified Late Caddo bone-tempered and brushed ceramic tradition (Perttula et al. 2011b:Figure 6-71). Historic Caddo sites (dating from ca. A.D. 1700-1830) with high percentages of bone temper use are known only in the upper and middle Sabine River basins, and in the lower Angelina River basin (see Figure 11).

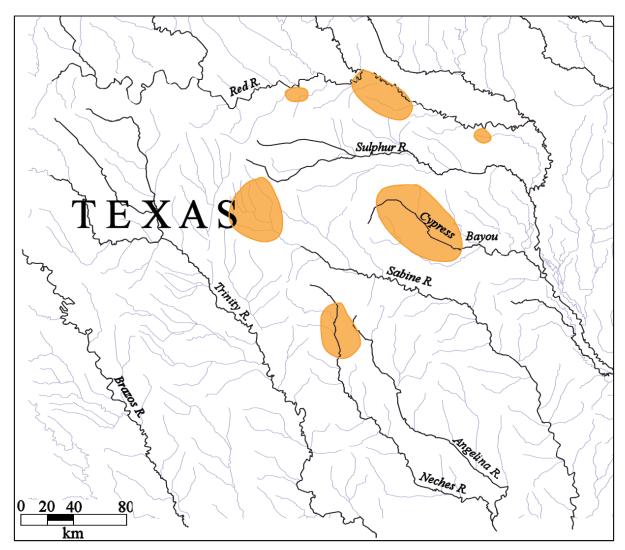


Figure 10. Distribution of areas of Caddo sites with high proportions (>5 percent of the decorated sherd assemblage) of neck banded sherds in East Texas.

Shell-tempered ceramics

Perttula et al. (2012e) have reviewed the age and distribution of shell-tempered ceramics in Caddo sites across the southern Caddo area. In general, shell-tempered ceramics were made by East Texas Caddo potters after ca. A.D. 1300, particularly in McCurtain phase sites along the middle reaches of the Red River and the lower Kiamichi River in southeastern Oklahoma (Figure 12; see also Selden et al. 2014:Figure 4). In East Texas McCurtain phase ceramic assemblages, the proportions of shell-tempered sherds ranges from 93-100 percent (see Table 1).

Caddo sites dating between ca. A.D. 1400-1680 with considerable amounts of shell-tempered ceramic sherds are found at just a few sites in the upper Sulphur and the mid-Red River (41BW716) (see Figure 12). By contrast, high proportions of shell-tempered sherds in ceramic assemblages are relatively common in post-A.D. 1700 Historic Caddo sites only in the upper Sabine, the Big Cypress Creek basin, and in two locales on the Red River, both upstream and downstream from the McCurtain phase sites (see Figure 12 and Table 1).

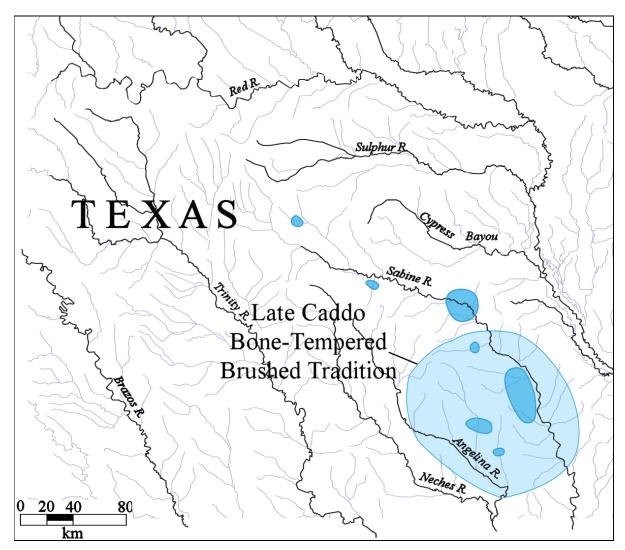


Figure 11. Clusters of Caddo sites with high proportions (>than 40 percent) of bone-tempered sherds in East Texas ceramic assemblages.

FUTURE PROSPECTS

The analytical and archaeological findings reported on in this article are based on a consideration of the East Texas Caddo ceramic sherd database, and represent only an initial set of stylistic attributes that have distinctive spatial and temporal distributions across East Texas. These findings barely plumb the depths of the East Texas Caddo ceramic sherd database, and further analyses are warranted; hopefully other ceramic assemblages can also be added to the database.

The next step will be to more formally and statistically assess the regional variation in Caddo ceramic assemblages. This should be based on a further delineation of temporal (i.e., to the smallest temporal interval possible given available chronological data) and spatial divisions in the character of Caddo ceramics (i.e., principally data on decorative methods and the use of different tempers) across East Texas sites, and then constructing networks of similarities between ceramic assemblages from these sites (cf. Peeples and Roberts 2013:3003-3004) that can be used to assess the strength of cultural relationships among Caddo communities in the region through time and across space. These postulated relationships should then be explored to try to determine the underlying reasons for the existence of such relationships, including factors such as the

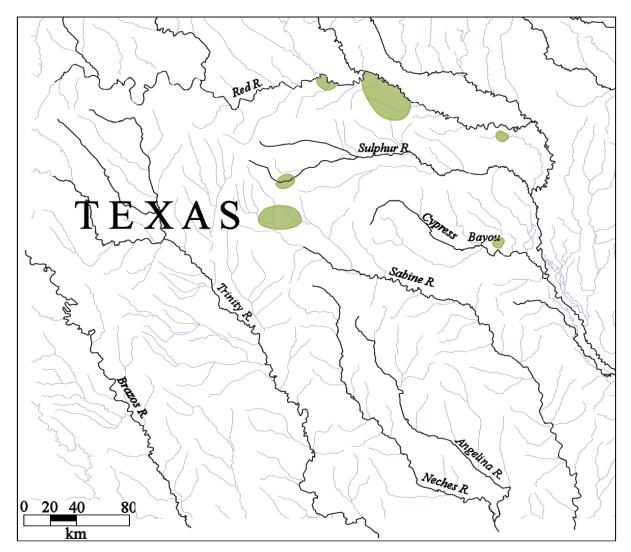


Figure 12. Clusters of Caddo sites with high proportions of shell-tempered sherds in East Texas ceramic assemblages.

frequency of interaction and direct contact between communities, trade and exchange of ceramic vessels, population movement, and similarities in the organization of ceramic vessel production. The results of past and current instrumental neutron activation analysis (INAA) and petrographic analysis of Caddo Area ceramics, including East Texas (where there is a robust INAA database) should also be explored as a means to corroborate production locales (cf. Selden et al. 2014), establish the chemical and paste characteristics of local fine ware and utility ware ceramics in assemblages, and evaluate the possible movement of ceramic vessels between different Caddo communities in East Texas and the broader Caddo world.

Finally, in conjunction with a database on 2D/3D-scanned Caddo ceramic vessels from East Texas sites, the East Texas Caddo ceramic sherd database should be made part of a digital database where comprehensive mathematical and quantitative analyses of morphological attributes and decorative elements on sherds and vessels can be conducted (e.g., Smith et al. 2014). Queries to such a combined database of vessels and sherds should lead to better understandings of regional Caddo ceramic typologies and their spatial and temporal underpinnings.

REFERENCES CITED

Anderson, K. M., K. Gilmore, O. F. McCormick III, and E. P. Morenon

Archaeological Investigations at Lake Palestine, Texas. Contributions in Anthropology No. 11. Department of Anthropology, Southern Methodist University, Dallas.

Barnhart, E., B. Dixon, S. Kotter, M. Nash, K. Reese-Taylor, E. Skokan, and R. Taylor

Data Recovery Excavations at Site 41TT372 and 41TT550 in the Tankersley and Hayes Creek Watersheds, Monticello B-2 Surface Mine, Titus County, Texas. Document No. 940608. Espey Huston & Associates, Inc., Austin.

Bell, M.

The Alex Justiss Site. A Caddoan Cemetery in Titus County, Texas. Publications in Archaeology No. 21. Highway Design Division, Texas Department of Highways and Public Transportation, Austin.

Benham, B. L., H. L. Miller, and J. V Sciscenti

Archaeological Research in the Toledo Bend Reservoir. Archaeology Research Program, Southern Methodist University, Dallas.

Brewington, R. L., J. E. Dockall, and H. J. Shafer

Archaeology of 41MX5: A Late Prehistoric Caddoan Hamlet in Morris County, Texas. Reports of Investigations No. 1. Center for Environmental Archaeology, Texas A&M University, College Station.

Bruseth, J. E. and T. K. Perttula

- Archaeological Research at Lake Fork Reservoir: Excavations at the Howle Site and Site Testing. Archaeology Research Program, Southern Methodist University, Dallas.
- Prehistoric Settlement Patterns at Lake Fork Reservoir. Texas Antiquities Permit Series, Report No. 2. Texas Antiquities Committee and Southern Methodist University, Austin and Dallas.
- Archeological Investigations at the Hudnall-Pirtle Site (41RK4): An Early Caddo Mound Center in Northeast Texas. Caddo Archeological Journal 15:57-158.

Campbell, J. A.

2001 Addendum I to Phase I Archaeological Investigations for the Proposed Longview Transmission Line Project, Harrison, Upshur, and Gregg Counties. Burns & McDonnell, Kansas City.

Cliff, M. B. and T. K. Perttula

2002 Results of National Register Investigations Conducted on Site 41PN175, Panola County, Texas. Report No. 32. Archeological Studies Program, Environmental Affairs Division, Texas Department of Transportation, Austin.

Cliff, M. B., S. M. Hunt, M. M. Green, R. Proctor, F. B. Largent, Jr., and W. J. Autin

Geomorphological Investigations and Inventory of Cultural Resources along and near the Bowie County Levee, Bowie County, Texas: 1996. Miscellaneous Report of Investigations No. 139. Geo-Marine, Inc., Plano.

Cliff, M. B., E. C. Sills, T. K. Perttula, and P. Dering

2004 National Register Testing of Sites 41HE14, 41HE139, and 41HE343 within Proposed FM 3506 Right of Way, Henderson County, Texas. Report No. 60. Archeological Studies Program, Texas Department of Transportation, Austin.

Clark, J. W. and J. E. Ivey

Archaeological and Historical Investigations at Martin Lake, Rusk and Panola Counties, Texas. Research Report 32. Texas Archeological Survey, Austin.

Corbin, J. E. and D. C. Kisling

1983 The Adolphus Sterne Home: Preliminary Archaeological Investigations of a Mid-Nineteenth Century Plantation in Nacogdoches County, Texas. Papers in Anthropology No. 4. Stephen F. Austin State University, Nacogdoches.

Corbin, J. E., H. A. Brown, M. G. Canavan, and S. Toups

1990 Mission Dolores de los Ais (41SA25): San Augustine County Texas. Archeological Investigations, Stephen F. Austin State University, Nacogdoches

Creel, D. G.

1979 Archeological Investigations at the George C. Davis Site, Cherokee County, Texas, Summer 1978. Texas Antiquities Permit Series No. 1. Texas A&M University, College Station.

Davis, E. M., W. A. Davis, J. R. Gipson, and B. Golden

2010 Archeological Investigations at Lake O' The Pines, Marion and Upshur Counties, Texas, 1957-1959. Archival Series 4. Texas Archeological Research Laboratory, The University of Texas at Austin.

Davis, W. A. and H. R. Horn

The Zavonian Springs Site: An Archaic-Neo-American Site in McGee Bend Reservoir, San Augustine County, Texas. *Bulletin of the Texas Archeological Society* 35:113-150.

Dixon, B., S. Kotter, E. Skokan, M. Nash, R. Rogers, and E. Barnhart

1995 Archaeological Testing of Site 41TT672 and Geomorphological Exploration of Tankersley and Dragoo Creek Drainages, Titus County, Texas. Document No. 950565. Espey, Huston & Associates, Inc., Austin.

Dockall, J. E. and R. C. Fields

National Register Testing of Three Sites in the Sabine Mine's South Hallsville No. 1 Mine-Rusk Permit, Rusk County, Texas. Report of Investigations No. 162. Prewitt and Associates, Inc., Austin.

Dockall, J., S. Katauskas, and R. Fields

National Register Testing of Four Sites in the Sabine Mine's Area M, Harrison County, Texas. Reports of Investigations No. 157. Prewitt and Associates, Inc., Austin.

Doehner, K. and R. E. Larson

1978 Archaeological Research at Cooper Lake, Northeast Texas, 1974-75. Research Report No. 108. Archaeology Research Program, Southern Methodist University, Dallas.

Doehner, K., D. Peter, and S. A. Skinner

1978 Evaluation of the Archaeology at the Proposed Cooper Lake. Research Report No. 114. Archaeology Research Program, Southern Methodist University, Dallas.

Duffield, L. F.

1961 The Limerick Site at Iron Bridge Reservoir, Rains County, Texas. *Bulletin of the Texas Archeological Society* 30:51-116.

Duffield, L. F. and E. B. Jelks

1961 The Pearson Site: A Historic Indian Site at Iron Bridge Reservoir, Rains County, Texas. Archaeology Series No. 4. Department of Anthropology, The University of Texas at Austin.

Fields, R. C.

- 1978 Report on the 1977 Investigations at the George C. Davis Site, Caddoan Mounds State Historic Site, Cherokee County, Texas. Texas Archeological Research Laboratory, The University of Texas at Austin.
- 1995 Analysis of Native-Made Ceramics. In *The Deshazo Site*, *Nacogdoches County. Texas*, *Volume 2: Artifacts of Native Manufacture*, edited by D. A. Story, pp. 173-232. Studies in Archeology 21. Texas Archeological Research Laboratory The University of Texas at Austin.

Fields, R. C. and E. F. Gadus (editors)

2012 Archeology of the Nadaco Caddo: The View from the Pine Tree Mound Site (41HS15), Harrison County, Texas. 2 Vols. Reports of Investigations No. 164. Prewitt and Associates, Inc., Austin.

Fields, R. C. and J. P. Thurmond

The George C. Davis Site, Cherokee County, Texas: Spring 1980 Archeological Investigations. Report of Investigations No. 8. Prewitt and Associates, Inc., Austin.

Fields, R. C., E. F. Gadus, and L. W. Klement

1994a The Peerless Bottoms Site: A Late Caddoan Component at Cooper Lake, Hopkins County, Texas. Bul*letin of the Texas Archeological Society* 65:55-114.

Fields, R. C., E. F. Gadus, L. W. Klement, and K. M. Gardner

1994b Excavations at the Spider Knoll Site, Cooper Lake Project, Delta County, Texas. Reports of Investigations No. 96. Prewitt and Associates, Inc., Austin.

Fields, R. C., E. F. Gadus, L. W. Klement, C. B. Bousman, and J. B. McLerran

Excavations at the Tick, Spike, Johns Creek, and Peerless Bottoms Sites, Cooper Lake Project, Delta & Hopkins Counties, Texas. Report of Investigations No. 91. Prewitt and Associates, Inc., Austin.

Fields, R. C., V. L. Hatfield, D. Burden, E. F. Gadus, M. C. Wilder, and K. W. Kibler

Testing and Data recovery Excavations at 11 Native American Archeological Sites along the U.S. Highway 271 Mount Pleasant Relief Route, Titus County, Texas. 2 Vols. Reports of Investigations No. 168. Prewitt and Associates, Inc., Austin.

Flynn, P.

1976 A Study of Red-Filmed Pottery from the Clement Site (Mc-8), McCurtain County, Oklahoma. Bulletin of the Oklahoma Anthropological Society 25:127-134.

Gadus, E. F., R. C. Fields, and C. B. Bousman

Archeological Investigations at 41DT11, 41DT21, 41DT50, 41DT54, and 41DT63 at Cooper Lake, Delta County, Texas. Reports of Investigations No. 86. Prewitt and Associates, Inc., Austin.

Gadus, E. F., R. C. Fields, J. K. McWilliams, J. Dockall, and M. C. Wilder

National Register Testing of Seven Prehistoric Sites in the Sabine Mine's Area Q, Harrison County, Texas. Reports of Investigations, Number 147. Prewitt and Associates, Inc., Austin.

Gadus, E. F., J. K. McWilliams, and R. C. Fields

2002 Data Recovery Excavations at the McGuire's Garden Site (41FT425), Jewett Mine, Freestone County, Texas. Reports of Investigations No. 134. Prewitt and Associates, Inc., Austin.

Galan, V., R. Rogers, T. K. Perttula, and E. S. Switek

National Register Testing of Seven Sites in the Monticello B-2 Surface Mine, Titus County, Texas. Document No. 971085. Espey, Huston & Associates, Inc., Austin.

Gilmore, K.

1986 French-Indian Interaction at an Early Eighteenth Century Post: The Roseborough Lake Site, Bowie County, Texas. Contributions in Archaeology 3. Institute of Applied Sciences, North Texas State University, Denton.

Goode, G. T., T. K. Perttula, L. L. Bush, S. Marceaux, L. Schniebs, and J. Todd

Excavations at the Early Caddo Period Mound Pond Site (41HS12) in Harrison County, Texas. MS on file, Center for Regional Heritage Research, Stephen F. Austin State University, Nacogdoches.

Griffith, T. B., R. C. Fields, S. L. Katauskas, and A. E. Dase

Archeological and Historical Resources Surveys of 2,144 Acres in the Proposed Marshall Mine, Harrison and Panola Counties, Texas. Reports of Investigations No. 163. Prewitt and Associates, Inc., Austin.

Harris, R. K., I. M. Harris, J. C. Blaine, and J. Blaine

1965 A Preliminary Archeological and Documentary Study of the Womack Site, Lamar County, Texas. *Bulletin of the Texas Archeological Society* 36:287-365.

Hart, J. P.

An Analysis of the Aboriginal Ceramics from the Washington Square Mound Site, Nacogdoches County, Texas. Master's thesis, Department of Anthropology, Northeast Louisiana University, Monroe.

Haskins, P. and M. Walters

2001 Archaeological Investigations of an Oil Well Pad Disturbance at the Tom Moore Site (41PN149), Panola County. *Journal of Northeast Texas Archaeology* 14:37-61.

Heartfield, Price, and Greene, Inc.

1988 Data Recovery at 41HS74, Harrison County, Texas. Heartfield, Price, and Greene, Inc., Monroe.

Hunt, S. M., F. B. Largent, Jr., and M. B. Cliff

1996 Cultural Resources Evaluation of the Pilgrim's Pride Property South of Big Cypress Creek, Camp County, Texas. Miscellaneous Report of Investigations No. 118. Geo-Marine, Inc., Plano.

Hyatt, R. D. and K. Doehner

1975 Archaeological Research at Cooper Reservoir, Northeast Texas, 1973. Contributions in Anthropology No. 15. Department of Anthropology, Southern Methodist University, Dallas.

Hyatt, R. D., B. H. Butler, and H. P. Mosca, III

1974 Archaeological Research at Cooper Lake 1970-1972. Contributions in Anthropology No. 12. Department of Anthropology, Southern Methodist University, Dallas.

Jackson, M. K., T. Middlebrook, G. Avery, H. Shafer, and B. Meissner

Trade and Cultural Interaction along El Camino Real de los Tejas During the Spanish Colonial and Republic Periods in Nacogdoches County, Texas. 2 Vols. Nine Flags Museum, Nacogdoches.

Jelks, E. B.

1965 The Archeology of McGee Bend Reservoir, Texas. Ph.D. dissertation, Department of Anthropology, The University of Texas at Austin.

Jelks, E. B. and C. D. Tunnell

1959 *The Harroun Site*, A Fulton Aspect Component of the Caddoan Area, Upshur County, Texas. Archaeology Series No. 2. Department of Anthropology, The University of Texas at Austin.

Johnson, L., Jr.

- An Archeological Survey of Blackburn Crossing Reservoir on the Upper Neches River. *Bulletin of the Texas Archeological Society* 31:213-238.
- The Yarbrough and Miller Sites of Northeastern Texas, with a Preliminary Definition of the LaHarpe Aspect. *Bulletin of the Texas Archeological Society* 32:141-284.

Jones, B. C.

- 1957 The Grace Creek Sites, Gregg County, Texas. Bulletin of the Texas Archeological Society 28:198-231.
- 1968 The Kinsloe Focus: A Study of Seven Historic Caddoan Sites in Northeast Texas. Master's thesis, Department of Anthropology, University of Oklahoma, Norman.

Jurney, D. H.

2000 Passport in Time Archaeological Investigations at the Hargrove Lake Site (41HO150), Houston County, Texas. U.S. Forest Service, Lufkin.

Jurney, D. H., J. Bohlin, S. E. Linder Linsley, S. C. Caran, and D. R. Pedler

1993 Archaeological Survey of Cooper Lake, Delivery Order Number 7, 1989. Cultural Resources Studies for Cooper Lake, Hopkins and Delta Counties, Texas. Archaeology Research Program, Southern Methodist University, Dallas.

Kelley, D. B.

The Burnitt Site: A Late Caddoan Occupation in the Uplands of the Sabine River Basin of Louisiana. Coastal Environments, Inc., Baton Rouge.

Kelley, D. B., D. G. Hunter, K. M. Roberts, S. L. Scott, and B. S. Haley

2010 The Burnitt Site (16SA204): A Late Caddoan Occupation in the Uplands of the Sabine River Basin. Louisiana Archaeology 31:4-33.

Kenmotsu, N. A.

2005 Investigations at the Salt Well Slough Site (41RR204), a Salt Making Site in Red River County, Texas. Archeological Reports Series, No. 4. Texas Historical Commission, Austin.

Kleinschmidt, U. K. W.

1982 Review and Analysis of the A. C. Saunders Site, 41AN19, Anderson County, Texas. Master's thesis, Department of Anthropology, The University of Texas at Austin.

Krieger, A. D.

- 1941 An Analytical System for East Texas Pottery. Southeastern Archaeological Conference Newsletter 2(4):7-
- Culture Complexes and Chronology in Northern Texas, with Extensions of Puebloan Datings to the Mississippi Valley. Publication No. 4640. The University of Texas, Austin.
- 2000 The Pottery of the Sanders Farm. In The 1931 Excavations at the Sanders Site, Lamar County, Texas: Notes on the Fieldwork, Human Osteology, and Ceramics, by A. T. Jackson, M. S. Goldstein, and A. D. Krieger, pp. 131-144. Archival Series 2. Texas Archeological Research Laboratory, The University of Texas at Austin.

Largent, F. B., Jr., D. Beene, M. B. Cliff, and S. Hunt

Cultural Resources Testing of Two Sites within the White Oak Creek Wildlife Management Area (WOC-MA), Bowie and Titus Counties, Texas. White Oak Creek Wildlife Management Area Archaeological Technical Series, Report of Investigations No. 6. Geo-Marine, Inc., Plano.

Lorrain, D. and N. Hoffrichter

Archeological Survey and Excavation at Pat Mayse Reservoir, Texas. Archaeological Salvage Project, Southern Methodist University, Dallas.

Mahoney, R., with contributions by C. Crawford, R. Mauldin, L. Nordt, T. K. Perttula, and S. Reyna

Camp Maxey III, Archaeological Testing of 23 Prehistoric Sites, Lamar County, Texas. Archaeological Survey Report No. 314. Center for Archaeological Research, The University of Texas at San Antonio.

Mallouf, R. J.

1976 Archeological Investigations at Proposed Big Pine Lake, 1974-1975: Lamar and Red River Counties, Texas. Archeological Survey Report No. 18. Office of the State Archeologist, Texas Historical Commission, Austin.

Marceaux, P. S.

The Archaeology and Ethnohistory of the Hasinai Caddo: Material Culture and the Course of European Contact. Ph.D. dissertation, Department of Anthropology, The University of Texas at Austin.

McClurkan, B. B., W. T. Field, and J. N. Woodall

Excavations in Toledo Bend Reservoir, 1964-65. Papers of the Texas Archeological Salvage Project No. 8. Texas Archeological Salvage Project, The University of Texas at Austin.

McDonald, A. J.

1972 An Archeological Survey of the Martin Lake Area, Rusk and Panola Counties, Texas. Research Report No. 14. Texas Archeological Salvage Project, The University of Texas at Austin.

McGregor, D. E., M. M. Green, D. H. Jurney, W. A. Martin, R. W. Moir, and J. W. Saunders

1996 Archaeological Investigations at Cooper Lake, Delivery Orders Numbers 2, 3 & 4, 1987. 2 Vols. Archaeology Research Program, Southern Methodist University, Dallas.

Middlebrook, T. A.

1994 An Update of Archaeological Investigations at the Tyson Site. *Journal of Northeast Texas Archaeology* 3:1-36.

Mills, B. J., J. M. Roberts Jr., J. J. Clark, W. R. Haas Jr., D. L. Huntley, M. A. Peeples, L. Borck, S. C. Ryan, M. A. Trowbridge, and R. L. Breiger

2013 The dynamics of social networks in the late prehispanic U.S. Southwest. In *New Approaches in Regional Network Analysis*, edited by C. Knappett and R. Rivers, pp. 185-206. Oxford University Press, Oxford.

Miroir, M. E., R. K. Harris, J. C. Blaine, and J. McVay

1973 Bernard de la Harpe and the Nassonite Post. Bulletin of the Texas Archeological Society 44:113-167.

Nash, M. A., S. M. Kotter, and K. V. Reese-Taylor

1995 National Register Testing of Ten Sites in the Monticello B-2 Surface Mine, Titus County, Texas. Document No. 930529. Espey, Huston & Associates, Inc., Plano.

Nash, M. A., T. K. Perttula, and L. W. Ellis

2012 National Register of Historic Places Eligibility Testing of Site 41SM404 within TxDOT's Tyler District, Smith County, Texas. Document No. 110055. Atkins, Austin.

Nelson, B. and T. K. Perttula

1993 Site 41UR136, a Titus Phase Site in the Little Cypress Creek Basin. *Caddoan Archeology Newsletter* 3(4):11-16.

2003a Archeological Investigations of the Underwood Site (41CP230): A Titus Phase Settlement along Big Cypress Creek in Camp County, Texas. *Journal of Northeast Texas Archaeology* 17:1-61.

2003b Archeological Survey along the Lake Bob Sandlin Shoreline, Camp, Franklin, and Titus Counties, Texas. Report of Investigations No. 46. Archeological & Environmental Consultants, LLC, Austin.

2006 Archaeological Investigations at the New Hope Site (41FK107) at Lake Bob Sandlin, Franklin County, Texas. *Journal of Northeast Texas Archaeology* 25:26-37.

Nelson, B., M. Crabb, and T. K. Perttula

2004 The Crabb Site (41TT650), a Prehistoric Caddo Site on Tankersley Creek, Titus County, Texas. *Journal of Northeast Texas Archaeology* 19:1-21.

Nelson, B., M. Turner, and T. K. Perttula

1996 Archeological Investigations at the Griffin Mound Site: A Middle Caddoan Site in Upshur County, Texas. The Cache, Collected Papers on Texas Archeology 3:49-66. Office of the State Archeologist, Texas Historical Commission, Austin.

Nichols, P., M. Parsons, M. D. Freeman, L. Banks, D. Shanabrook, and B. Rader

1997 Test Excavations at Proposed Lake Gilmer, Upshur County, Texas. Horizon Environmental Services, Inc., Austin.

Parsons, M.

2011 Mitigation Phase Archeological Investigations at Lake Gilmer, Upshur County, Texas. MS on file, Archeology Division, Texas Historical Commission, Austin.

- Parsons, M. L., J. E. Bruseth, J. Bagur, S. E. Goldborer, and C. McCrocklin
- 2002 Finding Sha'chahdinnih (Timber Hill): The Last Village of the Kadohadacho in the Caddo Homeland. Archeological Reports Series No. 3. Texas Historical Commission, Austin.

Peeples, M. A. and J. M. Roberts Jr.

2013 To binarize or not to binarize: relational data and the construction of archaeological networks. Journal of Archaeological Science 40:3001-3010.

Perttula, T. K.

- 1998 Caddo Ceramics from the Middle Caddoan Period Knight's Bluff Site (41CS14), Cass County, Texas. Caddoan Archeology 8(4):11-19.
- 1999 (Editor) The Hurricane Hill Site (41HP106): The Archaeology of a Late Archaic/Early Ceramic and Early-Middle Caddoan Settlement in Northeast Texas. 2 Vols. Special Publication No. 4. Friends of Northeast Texas Archaeology, Pittsburg and Austin.
- The Caddoan Ceramics from the Gray's Pasture Site (41HS524), Harrison County, Texas. Journal of 2000 Northeast Texas Archaeology 13:1-38.
- 2002a Caddo Ceramics from 41HS835, Harrison County, Texas. In A Phase I Cultural Resources Survey of the Blocker-Crossroads WSC Water Line Project in Central Harrison County, Texas, by W. E. Moore, pp. AII 1-13. Contract Report No. 103. Brazos Valley Research Associates, Bryan.
- 2002b (Editor) Archeological Investigations at the Proposed Lake Naconiche, Nacogdoches County, Texas. 2 Vols. Report of Investigations No. 42. Archeological and Environmental Consultants, LLC, Austin.
- 2005a The M. W. Burks Site (41WD52), A Late Caddo Hamlet in Wood County, Texas. Journal of Northeast Texas Archaeology 23:1-27.
- 2005b The Cranfill Site (41BW171), a Prehistoric Caddo Site in the Red River Valley, Bowie County, Texas. *Journal of Northeast Texas Archaeology* 22:1-37.
- 2005c 1938-1939 WPA Excavations at the Hatchel Site (41BW3) on the Red River in Bowie County, Texas. Southeastern Archaeology 24(2):180-198.
- 2005d (Editor) Archeological Investigations at the Pilgrim's Pride Site (41CP304), a Titus Phase Community in the Big Cypress Creek Basin, Camp County, Texas. 2 Vols. Report of Investigations No. 30. Archeological & Environmental Consultants, LLC, Austin.
- 2008a Analysis of the Historic Caddo Ceramics from 41NA223 in Downtown Nacogdoches, Nacogdoches County, Texas. *Journal of Northeast Texas Archaeology* 28:35-50.
- 2008b (Editor) Lake Naconiche Archeology, Nacogdoches County, Texas: Results of the Data Recovery Excavations at Five Prehistoric Archeological Sites. 2 Vols. Report of Investigations No. 60. Archeological & Environmental Consultants, LLC, Austin.
- 2008c The Archeology of the Roitsch Site (41RR16), an Early to Historic Caddo Period Village on the Red River in Northeast Texas. In Collected Papers from Past Texas Archeological Society Summer Field Schools, edited by T. K. Perttula, pp. 313-628. Special Publication No. 5. Texas Archeological Society, San Antonio.
- 2008d Archeological Survey of the Roitsch Farm and Adjoining Lands, 1991 and 1992 Texas Archeological Society Field School, Red River County, Texas. In Collected Papers from Past Texas Archeological Society Summer Field Schools, edited by T. K. Perttula, pp. 173-312. Special Publication No. 5. Texas Archeological Society, San Antonio.
- 2009a Frankston Phase Ceramics from the Alcoa # 1 (41AN87) Site, Mound Prairie Creek, Anderson County, Texas. Journal of Northeast Texas Archaeology 29:23-44.
- 2009b The Ceramics from a Late Caddo Site on Mud Creek in Cherokee County, Texas. Journal of Northeast Texas Archaeology 29:45-52.
- 2009c Late Caddo Ceramics from 41HE337 in Henderson County, Texas. Journal of Northeast Texas Archaeology 29:53-57.

- 2009d Ceramic Vessel Sherds from the Kah-Hah-Ko-Wha Site (41CE354), an Allen Phase Component in Northwestern Cherokee County, Texas. Journal of Northeast Texas Archaeology 29:59-79.
- 2009e The Archaeology of the 16th and 17th Century Caddo in the Post Oak Savannah of Northeast Texas: The Tuinier Farm (41HP237), R. A. Watkins (41HP238), and Anglin (41HP240) Sites in the Stouts Creek Basin, Hopkins County, Texas. Journal of Northeast Texas Archaeology 30:1-132.
- 2009f Analysis of the Caddo Archeological Materials from the 1985 Texas Archeological Society Field School at the Washington Square Mound Site, Nacogdoches County, Texas. Bulletin of the Texas Archeological *Society* 80:145-193.
- 2009g The Decorated Ceramic Sherds, Plain Rims, and Clay Pipe Sherds from the Stallings Site (41LR297), Lamar County, Texas. MS on file.
- 2010a Documentation of Caddo Ceramic Vessel Sherds from the Shelby Site (41CP71) in the Vernon Holcomb Collection, Camp County, Texas. Journal of Northeast Texas Archaeology 33:25-29.
- 2010b Analysis of the Prehistoric Caddo Ceramics from 41LR351, Lamar County, Texas. Journal of Northeast Texas Archaeology 33:69-91.
- 2010c Analysis of Caddo Sherds from Sites in Shelby County, Texas. Ms on file.
- 2011a A Radiocarbon Date from a Middle Caddo Period Habitation Site on Hickory Creek, Houston County, Texas. Caddo Archeology Journal 21:147-156.
- 2011b Another Look at the Grace Creek #1 Site in Gregg County, Texas, as Seen Through Ceramic Analysis. Journal of Northeast Texas Archaeology 35:11-46.
- 2011c (assembler) Archaeological and Archaeogeophysical Investigations at an Early Caddo Mound Center in the Sabine River Basin of East Texas, Special Publication No. 15. Friends of Northeast Texas Archaeology, Austin and Pittsburg.
- Analysis of Ceramic Sherds from the Mid-18th Century Gilbert Site on Lake Fork Creek, Rains County, Texas. Journal of Northeast Texas Archaeology 37:1-22.
- 2013a The Sam D. Carpenter Bottom Site (41CP495) in the Big Cypress Creek Basin, Camp County, Texas. Journal of Northeast Texas Archaeology 42:1-21.
- 2013b The McMinn Ranch Site (41CP72) in the Dry Creek Valley, Camp County, Texas. Journal of Northeast Texas Archaeology 42:23-32.
- 2013c Analysis of the Prehistoric Artifact Assemblage of Ceramic and Lithic Artifacts from 41LR351, Lamar County, Texas. Journal of Northeast Texas Archaeology 39:7-41.
- 2013d The Tom Hanks Site (41CP239): A Late Caddo, Titus Phase Mound Site in the Big Cypress Creek Basin, Camp County, Texas. *Journal of Northeast Texas Archaeology* 41:17-26.
- 2013e The Linebarger Site on Dry Creek, Camp County, Texas. Journal of Northeast Texas Archaeology 40:31-
- 2013f Analysis of Surface Collections from Areas A and B at the Sam Roberts Site (41CP8) on Prairie Creek, Camp County, Texas. Journal of Northeast Texas Archaeology 40:39-46.
- 2013g The Sam D. Carpenter Garden Plot Site (41CP496), Camp County, Texas. Journal of Northeast Texas Archaeology 40:47-52.
- 2013h The Analysis of the Aboriginal Ceramic Sherds Recovered from the Keystone Pipeline Project in Eastern Texas. MS on file, SWCA, Inc., Austin.
- 2013i Caddo Ceramics in East Texas. Bulletin of the Texas Archeological Society 84:181-212.
- 2014a Caddo Ceramics from Mound Deposits at the Shelby Mound Site (41CP71) on Greasy Creek, Camp County, Texas. Journal of Northeast Texas Archaeology 46:7-43.
- 2014b Archaeological Studies of the Hatchel Site (41BW3) on the Red River in Bowie County, Texas. Special Publication No. 23. Friends of Northeast Texas Archaeology, Austin and Pittsburg.
- 2014c The Mitchell Site (41BW4): An Ancestral Caddo Settlement and Cemetery on McKinney Bayou, Bowie County, Texas. Special Publication No. 32. Friends of Northeast Texas Archaeology, Austin and Pittsburg.

- 2014d The Caddo Archaeology of the Musgano Site (41RK19) in the Sabine River Basin of East Texas. Special Publication No. 28. Friends of Northeast Texas Archaeology, Austin and Pittsburg.
- 2014e The Eli Moores Site, a 17th to early 18th Century Caddo Site on the Red River, Bowie County, Texas. Special Publication No. 31. Friends of Northeast Texas Archaeology, Austin and Pittsburg.
- 2014f The Hale and Keith Mounds in the Big Cypress Creek Basin in East Texas. Special Publication No. 33. Friends of Northeast Texas Archaeology, Austin and Pittsburg.
- 2014g Aboriginal Ceramic Vessel and Pipe Sherds from the Murvaul Creek Site (41PN175), Panola County, Texas. MS on file, Versar-Geo-Marine, Inc., Plano.
- 2014h The Caddo Ceramic and Lithic Assemblage from the Robert Griffin Site (41SY41), Shelby County, Texas. Research Report No. 1. Center for Regional Heritage Research, Stephen F. Austin State University, Nacogdoches.
- 2014i The Caddo Ceramic Assemblage from the Buddy Hancock Site (41SY45), Shelby County, Texas. Research Report No. 2. Center for Regional Heritage Research, Stephen F. Austin State University, Nacogdoches.
- 2015a The Caddo Ceramic Assemblage from the Hardin A Site (41GG69) on the Sabine River in Gregg County, Texas. *Journal of Northeast Texas Archaeology* 51, this volume.
- 2015b The Harling Site (41FN1), An Ancestral Caddo Mound Site on the Red River in Fannin County, Texas. *Journal of Northeast Texas Archaeology* 51, this volume.
- 2015c The Womack Site (41LR1), an Ancestral Caddo Settlement on the Red River in Lamar County, Texas. Journal of Northeast Texas Archaeology 52, in press.
- 2015d A Titus Phase Midden Mound at the Earl Jones Farm (41WD3) in the Lake Fork Creek Basin, Wood County, Texas. Journal of Northeast Texas Archaeology 53, in press.
- 2015e The L. L. Winterbauer Site (41WD6), Wood County, Texas. Journal of Northeast Texas Archaeology 53, in press.
- 2015f The A. C. Gibson Site (41WD1), a Middle Caddo Period Component on the Sabine River in Wood County, Texas. Journal of Northeast Texas Archaeology 53, in press.

Perttula, T. K. and L. W. Ellis

The Hickory Hill Site (41CP408): Archeological Investigations at a Middle Caddo Site in the Little Cypress Creek Basin in East Texas. Document No. 120055. Atkins Group, Austin.

Perttula, T. K. and K. K. Gilmore

Archaeological Survey along Mill Race Creek and Tributaries, Wood County, Texas: 1987-1988. Contributions in Archaeology No. 6. Institute of Applied Sciences, University of North Texas, Denton.

Perttula, T. K. and T. Middlebrook

Prehistoric Caddo Ceramics from the Henry Lake Site (41CE324), Cherokee County, Texas. Journal of Northeast Texas Archaeology 29:9-21.

Perttula, T. K. and B. Nelson

- 1997 41HS574, The Coleman Farm Site on Starkey Creek. Journal of Northeast Texas Archaeology 10:52-57.
- Archeological Survey Investigations of Selected Parts of the Walker Creek Project Area for Pilgrim's Pride Corporation, Camp County, Texas. Report of Investigations No. 22. Archeological and Environmental Consultants, Austin.
- Additional Archeological Survey and Shovel Testing Investigations in the Walker Creek Complex Project Area for Pilgrim's Pride Corporation, Camp County, Texas. Report of Investigations No. 23. Archeological and Environmental Consultants, LLC, Austin.
- 2000a Phase II Archeological Survey Investigations of the City of Tyler-Lake Palestine WTP Project, Smith County, Texas. Report of Investigations No. 41. Archeological and Environmental Consultants, Austin.
- 2000b Archeological Investigations at 41CE299, Double Creek Wastewater Treatment Plant, and along Ragsdale Creek, Cherokee County, Texas. Report of Investigations No. 36. Archeological & Environmental Consultants, LLC, Austin.

- 2001 Archeological Test Excavations at the Prestonwood (41SM272) and Broadway (41SM273) Sites along the City of Tyler-Lake Palestine WTP Project, Smith County, Texas. Report of Investigations No. 43. Archeological and Environmental Consultants, LLC, Austin.
- 2002a An Archeological Survey of Harrison Bayou Lease Lands at the Longhorn Army Ammunition Plant, Harrison County, Texas. Report of Investigations No. 12. Archeological and Environmental Consultants, Austin
- 2002b Archeological Survey of Lake Bob Sandlin State Park, Titus County, Texas. Report of Investigations No. 48. Archeological and Environmental Consultants, LLC, Austin.
- 2003a The Nawi haia ina Site (41RK170): Archeological Investigations in the City of Henderson's Southside Wastewater Treatment Plant, Rusk County, Texas. Report of Investigations No. 51. Archeological & Environmental Consultants, LLC, Austin.
- 2003b Archeological Investigations of Village Areas at the Hatchel Site (41BW3), Bowie County, Texas. Report of Investigations No. 58. Archeological & Environmental Consultants, LLC, Austin.
- 2004a Archeological Investigations at the Shelby Site (41CP71) on Greasy Creek, Camp County, Texas. Special Publication No. 5. Friends of Northeast Texas Archaeology, Pittsburg and Austin.
- 2004b Woodland and Caddo Archeology at the Broadway or Kanduts'ah Kuhnihdahahdisa' Site (41SM273) on the City of Tyler-Lake Palestine WTP Project, Smith County, Texas. Report of Investigations No. 50. Archeological & Environmental Consultants, LLC, Austin.
- 2006a Archaeological Investigations at the Polk Estates Site (41CP245), Camp County, Texas. *Journal of Northeast Texas Archaeology* 24:1-83.
- 2006b Test Excavations at Three Caddo Sites at Mission Tejas State Park, Houston County, Texas. Report of Investigations No. 76. Archeological & Environmental Consultants, LLC, Austin.
- 2007a Archeological Survey Investigations and Test Excavations at 41CE354 at the North and South Lake areas of the H.R.C. Cherokee Tree Farm, L. P. Project, Cherokee County, Texas. Report of Investigations No. 80. Archeological & Environmental Consultants, LLC, Austin.
- 2007b Archeological Investigations in 2007 at Mission Tejas State Park in Houston County, Texas. Report of Investigations No. 85. Archeological & Environmental Consultants, LLC, Austin.
- 2009 Archeological Survey of 361.3 Acres of the H.R.C. Cherokee Tree Farm, L. P. Project in the Flat Creek Valley, Cherokee County, Texas. Report of Investigations No. 98. Archeological & Environmental Consultants, LLC, Austin.
- 2012a The Caddo Ceramic Assemblage from the New Hope Site (41FK107), Franklin County, Texas. *Journal of Northeast Texas Archaeology* 38:45-71.
- 2012b The Wa'akas Site (41CP490) at Lake Bob Sandlin, Camp County, Texas. *Journal of Northeast Texas Archaeology* 38:73-83.
- Two Middle Caddo Period Habitation Sites and Cemeteries in the Sabine River Basin, Gregg County, Texas. Special Publication No. 27. Friends of Northeast Texas Archaeology, Pittsburg and Austin.
- 2014 Additional Artifact Collections from the Gardener Site (41CP55), Camp County, Texas. *Journal of Northeast Texas Archaeology* 46:73-79.

Perttula, T. K. and R. Z. Selden Jr.

- 2014 Ceramic Sherds from the Morse Mounds Site (41SY27). Research Report No. 3. Center for Regional Heritage Research, Stephen F. Austin State University, Nacogdoches.
- 2015 Ancestral Caddo Ceramics in East Texas. Journal of Northeast Texas Archaeology 48:9-58.

Perttula, T. K. and D. L. Sherman

2009 Data Recovery Investigations at the Ear Spool Site (41TT653), Titus County, Texas. Document No. 070205. PBS&J, Austin.

Perttula, T. K. and B. D. Skiles

2014 The Steck Site (41WD529), a Titus Phase Settlement in the Lake Fork Creek Drainage Basin, Wood County, Texas. *Journal of Northeast Texas Archaeology* 48:1-8.

Perttula, T. K. and M. Thacker

Analysis of New Artifact Collections from Archaic to Ancestral Caddo Sites in the Saline Creek Basin in Northern Smith County, Texas. Journal of Northeast Texas Archaeology 43:1-25.

Perttula, T. K. and C. P. Walker

The History of Archaeological Investigations and Geophysical Survey at the Jamestown Mound Site (41SM54), an Archaeological Conservancy Preserve in Smith County, Texas. Archeological & Environmental Consultants, LLC and Archaeo-Geophysical Associates, LLC, Austin.

Perttula, T. K. and M. Walters

2012 Caddo Sites in the Saline Creek Basin in Northern Smith County, Texas. Journal of Northeast Texas Archaeology 36:47-63.

Perttula, T. K., L. L. Bush, L. Schniebs, T. Middlebrook, and P. S. Marceaux

2010c An Early Historic Caddo Farmstead at the Henry M. Site (41NA60) in Nacogdoches County, Texas. Stephen F. Austin State University Press, Nacogdoches.

Perttula, T. K., D. B. Kelley, and R. A. Ricklis (assemblers and editors)

2011b Archeological Investigations at the Lang Pasture Site (41AN38) in the Upper Neches River Basin of East Texas. Report No. 129. Texas Department of Transportation, Archeological Studies Program, Environmental Affairs Division, Austin.

Perttula, T. K., B. Nelson, and P. Haskins

2012c Additional Lake Bob Sandlin Sites with Documented Collections of Prehistoric Lithic and Ceramic Artifacts. Journal of Northeast Texas Archaeology 38:35-44.

Perttula, T. K., B. Nelson, and R. Z. Selden, Jr.

2014a The Gardener Site (41CP55): A Late Caddo Settlement on Big Cypress Creek in East Texas. Journal of *Northeast Texas Archaeology* 44:1-11.

Perttula, T. K., B. Nelson, and M. Walters

The South Lilly #4 Site (41UR279), Upshur County, Texas. Journal of Northeast Texas Archaeology 19:22-60.

2011a Archaeological Sites Along King Creek in Western Nacogdoches County, in East Texas. Journal of Northeast Texas Archaeology 34:69-77.

2011c Archeological Survey Investigations to Identify 17th-early 19th Century Caddo Sites along El Camino Real de los Tejas National Historic Trail in East Texas. Report of Investigations No. 108. Archeological & Environmental Consultants, LLC, Austin.

2012a The Buckner Dam Site (41CE339) and Four Other Caddo Sites on Gum Creek in the Upper Neches River Basin, Cherokee County, Texas. Journal of Northeast Texas Archaeology 36:65-75.

2013b Archaeological Investigations at the Pine Creek Site, an Allen Phase Settlement on Flat Creek in Northwestern Cherokee County, Texas. Journal of Northeast Texas Archaeology 40:1-18.

2014b Renewed Archaeological Investigations at the Sanders Site (41LR2), Lamar County, Texas. Journal of Northeast Texas Archaeology 47:25-30.

Perttula, T. K., B. Nelson, M. Walters, and L. Schniebs

Archaeological Investigations of the Lang Pasture (41AN38) Midden Deposits on private property west of the SH 155 Right-of-Way, Anderson County, Texas. Caddo Archeology Journal 16:27-36.

Perttula, T. K., B. Nelson, M. Walters, and R. Z. Selden Jr.

The Sanders Site (41LR2): A Middle to Historic Caddo Settlement and Mound Center on the Red River in Lamar County, Texas. Journal of Northeast Texas Archaeology 50, in press.

Perttula, T. K., R. Z. Selden, Jr., and B. Nelson

2013a Analysis of the Ceramic Sherds from Area C at the Ware Acres Site (41GG31), Gregg County, Texas. Journal of Northeast Texas Archaeology 41:57-79.

Perttula, T. K., B. D. Skiles, and B. C. Yates

- 1993a The Carlisle Site (41WD46), a Middle Caddoan Occupation on the Sabine River, Wood County, Texas. *Notes on Northeast Texas Archaeology* 1:34-62.
- 1993b The Goldsmith Site (41WD208): Investigations of the Titus Phase in the Upper Sabine River Basin, Northeast Texas. *Bulletin of the Texas Archeological Society* 61:139-191.

Perttula, T. K., M. B. Trubitt, and J. S. Girard

2012e The Use of Shell-Tempered Pottery in the Caddo Area of the Southeastern United States. *Southeastern Archaeology* 30(2):242-267.

Perttula, T. K., M. Walters, and B. Nelson

- 2010a Documenting Caddo Ceramic Sherd and Lithic Collections from Prehistoric Sites at Lake Bob Sandlin. *Journal of Northeast Texas Archaeology* 33:31-39.
- 2010b Further Investigations of a Prehistoric Caddo Habitation Site in the White Oak Creek Basin of Northeast Texas: The James Owens Site (41TT769). *Caddo Archeology Journal* 20:53-76.
- 2012b The Younger Site (41MR6), Marion County, Texas. Journal of Northeast Texas Archaeology 38:1-20.
- 2012d Archeological Investigations at the Pace McDonald Site (41AN51): A Middle Caddo Mound Center in the Neches River Basin in East Texas. Special Publication No. 21. Friends of Northeast Texas Archaeology, Pittsburg and Austin.

Perttula, T. K., B. Young, and P. S. Marceaux

2009 Caddo Ceramics from an Early 18th Century Spanish Mission in East Texas: Mission San Jose de los Nasonis (41RK200). *Journal of Northeast Texas Archaeology* 29:81-89.

Prikryl, D. J.

2008 The 1991 and 1992 Texas Archeological Society Field School Excavations at the Fasken Site (41RR14), Red River County, Texas. In *Collected Papers from Past Texas Archeological Society Summer Field Schools*, edited by T. K. Perttula, pp. 125-171. Special Publication No. 5. Texas Archeological Society, San Antonio.

Robinson, D. G.

1997 Cultural Resource Investigations at the Ducks Unlimited Marsh (DUM) Project, North Toledo Bend Reservoir, Shelby County, Texas. Report 97-3. Cultural Resource Program, Texas Parks and Wildlife Department, Austin.

Rogers, R. and T. K. Perttula

2004 The Oak Hill Village (41RK214), Rusk County, Texas. Document No. 030083. PBS&J, Austin.

Rogers, R., M. B. Cliff, T. K. Perttula, G. Rutenberg, S. Victor, P. Dering, and M. Malainey

2003 Excavations at the Alex Justiss Site, 41TT13, Titus County, Texas. Report No. 36. Archeological Studies Program, Texas Department of Transportation, Austin.

Rogers, R., E. Foster, K. Reese-Taylor, G. Rutenberg, M. Nash, J. Hageman, and D. Jurney

1994 National Register Testing at Eight Archaeological Sites within the Oak Hill 2,280-Acre Study Area, Rusk County, Texas. Document No. 930169. Espey, Huston & Associates, Inc., Austin.

Scurlock, J. D.

1962 The Culpepper Site, a Late Fulton Aspect Site in Northeast Texas. *Bulletin of the Texas Archeological Society* 32:285-316.

Selden, R. Z. Jr. and T. K. Perttula

2014 Archaeological Sites on the Sabine National Forest, Sabine and Shelby Counties, Texas. Research Report No. 7. Center for Regional Heritage Research, Stephen F. Austin State University, Nacogdoches.

Selden, R. Z. Jr., T. K. Perttula, and D. L. Carlson

2014 INAA and the provenance of shell-tempered sherds in the ancestral Caddo region. *Journal of Archaeological Science* 47:113-120.

Shafer, H. J.

Archeological Investigations at the Attaway Site, Henderson County, Texas. Bulletin of the Texas Archeological Society 52:147-179.

Sherman, D. L.

- 2001 NRHP Eligibility Testing (41RK107, 41RK240, 41RK242, 41RK243, 41RK276, and 41RK286) and Additional Testing (41RK243) Investigations within the Oak Hill DIII Mine, Permit No. 46, Rusk County, Texas. Document No. 000237. PBS&J, Austin.
- National Register Testing of Site 41CP408: A Middle Caddoan Farmstead, Camp County, Texas. Document No. 040031. PBS&J, Austin.

Skinner, S. A., R. K. Harris, and K. M. Anderson (editors)

Archaeological Investigations at the Sam Kaufman Site, Red River County, Texas. Contributions in Anthropology No. 5. Department of Anthropology, Southern Methodist University, Dallas.

Smith, N. G., A. Karasik, T. Narayanan, E. S. Olson, U. Smilanksy, and T. E. Levy

The Pottery Informatics Query Database: A New Method for Mathematic and Quantitative Analyses of Large Regional Ceramic Datasets. Journal of Archaeological Method and Theory 21(1):212-250.

Stokes, J. and J. Woodring

1981 Native-Made Artifacts of Clay. In Archeological Investigations at the George C. Davis Site, Cherokee County, Texas: Summers of 1979 and 1980, edited by D. A. Story, pp. 135-238. Occasional Paper No. 1. Texas Archeological Research Laboratory, The University of Texas at Austin.

Story, D. A.

1965 The Archeology of Cedar Creek Reservoir, Henderson and Kaufman Counties, Texas. Bulletin of the *Texas Archeological Society* 36:163-257.

Story, D. A., B. Barber, E. Cobb, H. Cobb, R. Coleman, K. Gilmore, R. K. Harris, and N. Hoffrichter

Pottery Vessels. In "The Gilbert Site: A Norteno Focus Site in Northeast Texas," edited by E. B. Jelks. Bulletin of the Texas Archeological Society 37:112-187.

Suhm, D. A. and E. B. Jelks (editors)

Handbook of Texas Archeology: Type Descriptions. Special Publication No. 1, Texas Archeological Society, and Bulletin No. 4, Texas Memorial Museum, Austin. Reprinted in 2009, Gustav's Library, Davenport, Iowa.

Sundermeyer, S. A., J. T. Penman, and T. K. Perttula

Integrated Cultural Resources Investigations for the Bowie County Levee Realignment Project, Bowie County, Texas, and Little River County, Arkansas. Miscellaneous Reports, Report of Investigations No. 29. LopezGarcia Group, Dallas.

Thurmond, J. P.

Archeology of the Cypress Creek Drainage Basin, Northeastern Texas and Northwestern Louisiana. Studies in Archeology 5. Texas Archeological Research Laboratory, The University of Texas at Austin.

Thurmond, J. P. and U. Kleinschmidt

Report on the Fall 1978 Investigations at the George C. Davis Site, Caddoan Mounds State Historic Site, Cherokee County, Texas. Texas Archeological Research Laboratory, The University of Texas at Austin.

Turner, R. L. and J. E. Smith II

The Harold Williams Site (41CP10) and the Texas Archeological Society Field School of 1967. Bulletin of the Texas Archeological Society 73:1-68.

Walker, C. P. and T. K. Perttula

Archaeogeophysics and Archaeological Investigations at a Historic Caddo Site Along El Camino Real de los Tejas: The J. T. King Site (41NA15) in Nacogdoches County, Texas. Archaeo-Geophysical Associates, LLC and Archeological & Environmental Consultants, LLC, Austin.

Walters, M.

2003 The Wolf Site (41SM195), Smith County, Texas. Journal of Northeast Texas Archaeology 18:1-21.

2006 The Lake Clear (41SM243) Site and Crotalus horridus atricaudatus. Caddoan Archeology Journal 15:5-41.

2009 The Henry Chapman Site (41SM56). Journal of Northeast Texas Archaeology 31:11-35.

Walters, M., with contributions from L. G. Cecil, L. S. Cummings, J. P. Dering, J. R. Ferguson, M. D. Glascock, T. K. Perttula, L. Schniebs, H. J. Shafer, J. Todd, and C. P. Walker

2008 Life on Jackson Creek, Smith County, Texas: Archeological Investigations of a 14th Century Caddo Domicile at the Leaning Rock Site (41SM325). Caddo Archeology Journal 17:1-114.

Walters, M. and P. Haskins

1998 Archaeological Investigations at the Redwine Site (41SM193), Smith County, Texas. *Journal of Northeast Texas Archaeology* 11:1-38.

2000 The Bryan Hardy Site (41SM55), Smith County, Texas. Journal of Northeast Texas Archaeology 12:1-26.

Walters, M. and T. K. Perttula

2012 Certain Caddo Sites on Stone Chimney Creek, Cherokee County, Texas. *Journal of Northeast Texas Archaeology* 37:37-88.

Walters, M., B. Boyd, B. Nelson, T. K. Perttula, and L. Schniebs

2003 The James Owens Site (41TT769) in the Sulphur River Basin of Northeast Texas. *Caddoan Archeology Journal* 13(1):16-34.

Webb, C. H., F. E. Murphey, W. G. Ellis, and H. R. Green

1969 The Resch Site, 41HS16, Harrison County, Texas. Bulletin of the Texas Archeological Society 40:3-106.

Woodall, J. N.

1969 Archeological Excavations in the Toledo Bend Reservoir, 1966. Contributions in Anthropology No. 3. Department of Anthropology, Southern Methodist University, Dallas.

Wormser, A. J.

1991 Test Excavations at the Jodie Bender Site, 41HS11, Harrison County, Texas. Texas State Department of Highways and Public Transportation, Highway Design Division, Austin.