Lake Naconiche Archaeology And Caddo Origins Issues

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INTRODUCTION

Sometime around ca. A.D. 800, Lake Naconiche sites were no longer occupied by Woodland period groups of the Mossy Grove culture (Figure 1) solely making sandy paste pottery or living as mobile hunting-gathering foragers. At this time, from ca. A.D. 750-800 to around A.D. 900 (see Perttula and Nelson 2004:Figures 4 and 5), colder and drier conditions began to dominate the local weather. After ca. A.D. 800, were the aboriginal groups Caddo peoples or acculturated Mossy Grove folks? Some findings from the Lake Naconiche (Figure 2) archaeological investigations at the Boyette site (41NA285) are relevant to this issue of ethnic affiliations and local, but nevertheless regional momentous, cultural changes.

Putting that in context, as best as can be discerned in the archaeological records of the Woodland period occupations at the Naconiche Creek (41NA236) and Boyette sites (Perttula 2008:646-650, 663-668, 674-680), if there is any evidence of increasing sedentism, it is only apparent after ca. A.D. 400 or perhaps even as late as ca. A.D. 650, during the latter part of the period. Even so, these occupations were not sedentary in the sense of them being year-round occupations (as with the Caddo settlement history at Lake Naconiche) or even multi-seasonal occupations. The sites do not have accumulations of midden deposits, there is no evidence for the construction of sturdy wood structures, and there are only a very modest assortment of burned rock, pit, or post hole features at the Woodland period sites. It is hard to disagree with Story’s (1995:237) characterization of Woodland period settlements in the general area that they reflect “intermittent encampments by a relatively small group or groups over a considerable period of time.”

Woodland period sites are widely distributed on many different kinds of landforms, implying the generalized use of a wide variety of habitats for settlements as well as foraging pursuits. Without a more fine-grained Woodland period chronology for Mossy Grove culture sites in East Texas, which we are a long way from achieving, it is not possible to evaluate suggestions by Corbin (1998) that there were subtle shifts on the landscape of peoples that may have been a response to changes in subsistence (i.e., the possible growing of cultivated plants). The absence of cultigens other than squash from Woodland contexts in the Lake Naconiche paleobotanical record (see Derig 2008) casts some doubt on the assertion that horticultural economies were developed during this time locally, although the number of flotation and fine-screen samples from pre-A.D. 800 contexts is still miniscule. Thus, the virtual absence of cultigens from Woodland times does not yet constitute a robust evaluation of Corbin’s suggestion.

The development of sedentary life along Naconiche Creek appears to have taken place after ca. A.D. 800 by successful hunter-gatherer foragers and pottery makers, specifically amongst the earliest Caddo residents of the valley. Neither the adoption of pottery or the adoption of horticultural subsistence strategies (i.e., the cultivation of maize) appear to have been triggering events that led to the ability of these people to maintain multi-seasonal residences in the same places.

THE CASE OF THE BOYETTE SITE

The Boyette site has archaeological deposits that are relevant to the discussion of Caddo origins. Our work here consisted of extensive block excavations (Block I and II) on an upland ridge toe slope, and small alluvial terrace above Telesco Creek (Figure 3a-b); the site covers ca. 1.2 acres (Perttula 2008:181-209).

The relevant characteristics are as follows: first, there are radiocarbon-dated features and
Figure 1. Woodland period cultures in the Caddo archaeological area.
Figure 2. Lake Naconiche project area and the five sites that received data recovery investigations.
archaeological materials at the site that fall in the general temporal interval of interest, ca. A.D. 800-850—as well as immediately before and after that time—when the Caddo cultural tradition is generally acknowledged to become recognizable in the archaeological record in East Texas (cf. Story 2000). Second, there are relatively discrete Late Woodland (ca. A.D. 400-800) (or late Mossy Grove) and Early Caddo (ca. A.D. 800-1000) archaeological deposits at the site, and these contain some features and an extensive ceramic material culture record. Finally, the character of the ceramics from both components suggest continuities in some aspects of ceramic style and technology from the Late Woodland to the Early Caddo occupation, providing hints of from whence at least some East Texas Caddo groups may have originated.

Radiocarbon dates

Seven calibrated radiocarbon dates are pertinent, three from Late Woodland features in the northern part of Block I, and four dates from Early Caddo deposits and features in Block II (Table 1; see Perttula 2008:Table 4-26); there is also an older Woodland period date from deep in Block II. Both blocks have reasonably stratified Woodland and Early Caddo archaeological deposits. In Block II, Fea. 3 and Fea. 36 are stratified hearths associated with structural remains and post holes.

The Woodland period dates from Block I are from the lower archaeological deposits; the Early Caddo remains above them are undated. The Early Caddo period dates from Block II are from the upper archaeological deposits there; with the exception of the one date from Fea. 42, the Woodland period deposits are undated here. The decorated sandy paste ceramics, mostly of Late Woodland age, and the tempered Caddo decorated ceramics, indicate that the Late Woodland and Early Caddo deposits from both blocks are very likely to be contemporaneous.

The Late Woodland component at the Boyette site has a mean 2 sigma calibrated age range of AD 667-847, with a mean calibrated intercept of AD
The mean 2 sigma calibrated age range of the Early Caddo occupation is AD 873-1075, with a mean calibrated intercept of AD 960. Temporal differences between the four Early Caddo dates suggest that there may have been two occupations during the period at Boyette (although such cannot be recognized in the archaeological deposits): one with a mean age range at 2 sigma of AD 750-990 (mean calibrated intercept of AD 890) (see Table 1), and the other with a mean age range of AD 995-1160 at 2 sigma and a mean calibrated intercept of AD 1030 (see Table 1).

**Late Woodland sandy paste sherds**

Sandy paste plain sherds (Goose Creek Plain, *var. unspecified*) are abundant at the Boyette site, Block I excavations, especially in the lower
Table 1. Radiocarbon dates from the Boyette site.

| Block   | Context         | 2 sigma cal. | cal. intercept |
|---------|-----------------|--------------|----------------|
| Woodland|                 |              |                |
| Block I | Fea. 1/9, 60-87 cm | AD 680-890  | AD 780         |
| Block I | Fea. 1/10, 74-90 cm | AD 650-770  | AD 680         |
| Block I | Fea. 1/14, 60-80 cm | AD 670-880  | AD 770         |
| Block II| Fea. 35, 100-108 cm | 360-60 BC  | 190 BC         |
| Early Caddo|                 |              |                |
| Block II| 20-40 cm        | AD 1010-1180 | AD 1040       |
| Block II| Fea. 3          | AD 790-1000  | AD 900        |
| Block II| Fea. 36         | AD 710-980   | AD 880        |
| Block II| Fea. 42         | AD 980-1140  | AD 1020       |

archaeological deposits (50-100 cm bs) and in Feature 1/10 (Table 2) at the northern end of the block. The distribution of plain sandy paste sherds in the upper 50 cm bs appears to be predominantly a product of the contemporaneous use of sandy paste wares and grog-tempered pottery wares by Early Caddo groups living at the site (see below), while those from lower depths (where decorated sandy paste sherds are not especially common relative to the proportions seen in the overlying Caddo occupation) are considered primarily to be from a substantial Late Woodland period occupation.

The plain sandy paste rim sherds from Block I are almost always from direct or vertical walled vessels (92%). There are a few rims with inverted (4%) or everted (4%) rim profiles. About 71% have rounded lips, 21% have flat lips, and two others are beveled (either towards the interior or exterior vessel wall surface). Another has a rounded, but exterior folded lip—commonly seen in Caddo pottery

Table 2. Plain sandy paste sherds from the Boyette site, Block I.

| Level | Rim | Body | Base | N   | % SP* |
|-------|-----|------|------|-----|-------|
| Upper component |     |      |      |     |       |
| 1     | 8   | 89   | 5    | 102 | 20.9  |
| 2     | 3   | 129  | 7    | 139 | 25.0  |
| 3     | 8   | 118  | 6    | 132 | 21.3  |
| 4     | 9   | 134  | 8    | 151 | 31.3  |
| 5     | 5   | 62   | 3    | 70  | 22.5  |
| Lower component |     |      |      |     |       |
| 6     | 7   | 80   | 4    | 91  | 46.2  |
| 7     | 5   | 66   | 4    | 75  | 65.0  |
| 8     | -   | 20   | 2    | 22  | 55.0  |
| 9     | 2   | 30   | -    | 32  | 70.0  |
| 10    | -   | 11   | -    | 11  | 85.0  |
| Features | 2   | 22   | -    | 24  |       |
| Totals| 49  | 761  | 39   | 849 | 29.1  |

*proportion of plain sandy paste sherds among all plain sherds (both tempered and non-tempered)
vessels from the site—and another has a rounded but pointed lip.

Vessels range from 11-34 cm in orifice diameter. The mean orifice diameter of these vessels—most likely cooking jars and bowls—is 18.4 ± 4.6 cm, generally medium-sized on average. The plain sandy paste pottery vessels from the Boyette site have relatively thin walls and a rounded, thick base. Rim walls on average range from 6.75-7.16 mm; vessel walls are on average 6.92-7.18 mm in thickness, indicating the manufacture of smoothed and uniform vessel wall contours of medium thickness, well-suited to cooking use. Base sherds of sandy paste pottery range from 10-10.87 mm in thickness at the site, with the thickest bases among the plain sandy paste sherds from the Early Caddo component in Block I. About 16-18% of the vessel sherds have been smoothed or floated on interior and/or exterior vessel surfaces. The smoothing was done before the vessel was fired, and while the clay paste was malleable.

There is not much difference between Woodland and Early Caddo components in how the sandy paste pottery vessels were fired by aboriginal potters at the Boyette site (Table 3), indicating a technological continuity. Between 59.4-66.7% of the sherds are from vessels fired in a reducing environment, although in the earlier component more vessels were apparently left to cool in the fire rather than pulled from it to be cooled in the open air. Firing in an oxidizing or incompletely oxidizing environment was not the preferred firing method during either archaeological component.

Shers that are from vessels that were smothered, sooted, or possibly reheated comprise between 11-14.0% in the two components. The relative frequency of these firing conditions in vessel sherds is comparable to that documented from the plain sandy paste sherds in Block II at Boyette.

There are 245 plain sandy paste sherds from Block II at the Boyette site (Table 4), including 23 plain rims and four base sherds, all from rounded base vessels. The highest proportions of sandy paste sherds occur below 50 cm bs.

The rim sherds (both plain and decorated) have direct (91%), inverted (4.5%), and everted (4.5%) rim profiles. One has a beveled lip, 50% have a rounded lip, another 42% have flat lips, and one other has a pointed lip. The mean orifice diameter of the sandy paste vessels from Block II at the Boyette site is 19.0 ± 3.63 mm, with a range of 13-29 cm. Medium to large-sized vessels were used in Woodland period times at the Boyette site. About 55% of the vessel sherds have been smoothed on interior and/or exterior surfaces, smoothing occurring a bit more commonly on the vessel exterior (57%) compared to the vessel interior (54%). Less than 1% have been burnished, and 2% have remnants of organic residues preserved on them.

The majority of the plain sandy paste sherds from Block II are from vessels fired in a reducing environment, regardless of depth (62.7-70%); most of these were subsequently cooled in an open or oxidizing environment (Table 5). Incompletely oxidized vessel sherds are notably more abundant in the 0-50 cm component, while sherds from thoroughly oxidized vessels are more abundant in the probable Woodland period deposits below 50 cm bs (Table 5). The distinctive smudged, sooted, or reheated vessel sherds account for 12.5-15% of all the vessel sherds from the various block contexts, comparable to the sandy paste vessel sherds from the Block I sandy paste sherds from the Boyette site, and the tempered wares from the deepest archaeological deposits in Block II.

Table 3. Firing conditions of plain sandy paste sherds, Block I at the Boyette site.

| Firing Conditions                  | 0-50 cm | 50-100 cm | Features |
|-----------------------------------|--------|----------|---------|
| Oxidizing                         | 12.5*  | 8.3      | 4.3     |
| Incompletely Oxidized             | 16.1   | 11.1     | 4.3     |
| Reducing                          | 23.0   | 35.2     | 26.1    |
| Reducing, cooled in open air      | 36.4   | 31.5     | 56.5    |
| Smothered, sooted, reheated       | 11.0   | 14.0     | 4.3     |
| **Totals**                        | **256**| **108**  | **23**  |

*percent
Table 4. Plain sandy paste sherds from the Boyette site, Block II.

| Level | Rim | Body | Base | N   | % SP* |
|-------|-----|------|------|-----|-------|
| Upper component | | | | | |
| 1     | –   | 18   | –    | 18  | 51.4  |
| 2     | 1   | 19   | –    | 20  | 37.0  |
| 3     | 1   | 23   | –    | 24  | 51.1  |
| 4     | 4   | 25   | –    | 29  | 54.7  |
| 5     | 1   | 28   | 1    | 30  | 61.2  |
| Lower component | | | | | |
| 6     | 1   | 28   | –    | 29  | 61.7  |
| 7     | 7   | 24   | 1    | 32  | 84.2  |
| 8     | 6   | 29   | –    | 35  | 64.8  |
| 9     | 1   | 12   | 1    | 14  | 60.9  |
| 10    | –   | –    | –    | –   | –     |
| 11    | 1   | 2    | –    | 3   | 100.0 |
| 12    | –   | 3    | –    | 3   | 100.0 |
| Totals| 23  | 218  | 4    | 245 | 56.5  |

*proportion of plain and decorated sandy paste sherds among all sherds (tempered and non-tempered)

Table 5. Firing conditions of plain sandy paste sherds, Block II at the Boyette site.

| Firing Conditions | 0-50 cm | 50-120 cm | Features |
|-------------------|---------|-----------|----------|
| Oxidizing         | 3.9*    | 11.7      | 12.5     |
| Incompletely oxidized | 19.6  | 5.0       | –        |
| Reducing          | 25.5    | 30.0      | 37.5     |
| Reducing, cooled in open air | 37.2  | 40.0      | 25.0     |
| Smothered, sooted, reheated | 13.8  | 15.0      | 12.5     |
| Totals            | 51      | 60        | 8        |

*percentage

There are also decorated sandy paste sherds found in the deeper archaeological deposits in Block I and Block II at the Boyette site (Table 6). In Block I, 8.3% of the sandy paste sherds are decorated in this earlier Woodland archaeological component, compared to 11.9% decorated among the overlying Early Caddo component sandy paste sherds.

The decorated sherds from the lower archaeological deposits in Block I include incised (56.5%), punctated (17.4%), incised-punctated (21.7%), and rocker stamped sherds (4.3%). The absence of lip notched rim sherds is telling with respect to the likely age of the Woodland period occupation in Block I, in that lip notched rims appear to be more abundant in pre-A.D. 300 contexts at Lake Naconiche (Perttula 2008:433).

Incised sandy paste vessel sherds are more common in the lower Block I archaeological deposits, while incised-punctated vessel sherds are more common in the upper Caddo component (see Perttula 2008:Table 7-4). The incised sherds are primarily from vessels decorated with a series of parallel—
Table 6. Decorated sandy paste sherds from the lower Woodland component at the Boyette site, Block I.

| Decorative Element | No. of sherds |
|--------------------|--------------|
| **Incised**        |              |
| parallel incised-V-shaped line | 7 |
| parallel incised, broad line | 1 |
| broad opposed incised lines | 2 |
| diagonal incised | 1 |
| broad curvilinear incised line | 1 |
| horizontal and diagonal incised | 1 |
| **Subtotal** | **13** |
| **Punctated**      |              |
| small circular punctated rows | 1 |
| curvilinear circular punctated rows | 1 |
| tool punctated rows | 2 |
| **Subtotal** | **4** |
| **Incised-Punctated** |           |
| straight incised line-circular punctated row | 1 |
| broad incised line-triangular zone filled with large circular punctations | 1 |
| incised line-circular punctated zone | 1 |
| horizontal, circular, and panel incised zones filled with tool punctates | 1 |
| broad incised line and tool punctations | 1 |
| **Subtotal** | **5** |
| **Rocker stamped** |              |
|                      | **1** |
| **Totals**           | **23** |

Probably horizontal—lines, although opposed, curvilinear, diagonal, and horizontal-diagonal elements are also present (Figure 4). This is not much different than the incised sandy paste sherds in the overlying Caddo component.

Punctated sandy paste sherds include circular as well as tool punctated elements. These punctations are arranged in either straight or curvilinear rows (see Figure 4). The predominance of circular punctations is also characteristic of the punctated sandy paste sherds from the overlying Caddo component.

The incised-punctated sherds have either circular/semi-circular, triangular, or paneled incised zones filled with tool punctations or large circular punctations (see Figure 4). Sixty percent of the incised-punctated sandy paste sherds from this component have circular punctations, compared to 40% of the incised-punctated sandy paste sherds in the later Caddo component in Block I. Circular zones filled with punctations are common in the small sample from the Woodland deposits in Block I, but not in the overlying prehistoric Caddo component. The incised lines are a mix of narrow V-shaped and broad, shallow lines.

The one rocker stamped body sherd in Block I has a single row of rocker stamps, obviously part of a larger decorative element probably consisting of curvilinear incised zones filled with rocker stamping. This particular rocker stamped pottery may be an example of Marksville Stamped, var. Troyville.
Figure 4. Sandy paste decorated sherds from Block I: a-c, e-f, h-i, incised-punctated; d, punctated; g, incised; j, incised and rocker stamped.

(see Brown 1998), dated from ca. A.D. 100-300 in the lower Mississippi valley; Girard (2008 personal communication) suggests that Troyville pottery may date as late as the period of ca. A.D. 400-700 in the lower Mississippi valley, and thus the occurrence of this sherd at the Boyette site would not be out of place in a late Mossy Grove context.

The Block II decorated sandy paste sherds (n=16) at Boyette include incised (43.8%), incised-punctated (37.5%), lip notched (12.5%), and incised-rocker stamped (6.3%). The decorated sherds comprise only 6.1% of all the sandy paste sherds from the Block II excavations at Boyette.

The incised sandy paste Woodland sherds have straight-line elements. This includes single straight broad lines (n=1), single straight V-shaped lines (n=3), rim sherds with broad but shallow horizontal and vertical incised lines (n=2), and broad straight and diagonal incised lines (n=1).

Among the incised-punctated sandy paste sherds from Block II, the designs consist of straight incised lines forming triangular zones filled with punctations of various sorts. Punctations used as filler include tool (n=3) and circular (n=2) punctations. One body sherd—from a sandy paste carinated bowl—has straight incised lines with one row of circular punctations alternating with a row of tool punctations.

The one incised-rocker stamped sherd (40-50 cm bs, probably Marksville Stamped, var. Troyville) has a broad and shallow incised line, probably part of a curvilinear zone filled with rocker stamping. The lip notched rims (both from below 50 cm bs) have shallow opposed notches along the lip.

Early Caddo sandy paste sherds

There are 103 decorated sandy paste sherds recovered from the Block I excavations at the
Table 7. Decorated sandy paste sherds from the upper Early Caddo component at the Boyette site.

| Decorative Element                                      | No. |
|---------------------------------------------------------|-----|
| **Incised**                                             |     |
| single straight incised line                            | 2   |
| single broad incised line                               | 2   |
| parallel incised-V-shaped line                          | 13  |
| parallel incised, broad line                            | 1   |
| cross-hatched incised                                   | 1   |
| opposed incised lines                                   | 4   |
| diagonal incised                                        | 3   |
| single curvilinear incised line                         | 1   |
| broad straight and curvilinear incised                  | 1   |
| horizontal incised, V-shaped lines                      | 1   |
| horizontal and diagonal incised                         | 1   |
| deep zigzag incised lines*                              | 1   |
| **Subtotal**                                            | 31  |

| **Punctated**                                           |     |
| small circular punctated rows                           | 3   |
| large circular punctated rows                           | 4   |
| circular punctated panel                                | 1   |
| tool punctated rows                                     | 4   |
| cane punctated rows                                     | 1   |
| **Subtotal**                                            | 13  |

| **Incised-Punctated**                                   |     |
| straight incised line-large circular punctations         | 2   |
| straight incised line and small circular punctations     | 3   |
| single broad incised line with large circular punctations| 1   |
| broad incised line-triangular zone filled with large circular punctations | 1 |
| broad incised line-circular zone filled with circular punctations | 1 |
| diagonal incised-triangular zone filled with large circular punctations | 2 |
| broad diagonal incised-triangular zone filled with tool punctations | 3 |
| opposed incised-triangular zone filled with tool punctations | 1 |
| opposed incised-triangular zone filled with large circular punctations | 1 |
| broad parallel incised with curvilinear rows of circular punctations | 1 |
| horizontal and circular incised with circular zone of tool punctates | 1 |
| broad parallel incised with circular tool punctated zone | 1 |
| broad incised line and triangular zone filled with tool punctations | 1 |
| broad incised line and tool punctations                 | 1   |
| parallel incised-large tool punctated rows               | 1   |
| parallel incised-tool punctated zone                     | 3   |
| circular incised zone filled with tool punctations      | 1   |
| straight incised line and circular zone filled with tool punctations | 1 |
| straight incised line and triangular zone filled with tool punctations | 4 |
| **Subtotal**                                            | 30  |
Table 7. (Continued)

| Decorative Element                                       | No. |
|----------------------------------------------------------|-----|
| **Incised-Rocker Stamped**                               |     |
| shallow incised-rocker stamped                           | 2   |
| shallow zoned incised-rocker stamped                     | 1   |
| broad curvilinear incised line-rocker stamped            | 1   |
| Subtotal                                                 | 4   |
| **Rocker stamped**                                       | 1   |
| **Lip notched**                                          | 1   |
| **Totals**                                               | 80  |

*bottle

Boyette site. More than 75% of these distinctive sherds were found from 0-50 cm bs in an Early Caddo occupation; three others were found on the surface in the West Block Extension, and one came from a feature (Table 7). The proportion of decorated sandy paste sherds in the overall sandy paste sherd assemblage recovered in this component is 11.9%, a good bit higher than in earlier Woodland period ceramic assemblages from Block II at Boyette or at the Naconiche Creek site (41NA236) in pre-A.D. 400 contexts. This proportion of decorated sherds among the sandy paste sherds in the upper 50 cm of Block I is still twice as low as is documented in the tempered Caddo wares from Block I, as well as lower amounts of both horizontal and diagonal incised decorative elements in the sandy paste sherds from Block I. Most of the incised lines are narrow and V-shaped in profile, although about 17% have broad incised lines. Two incised sherds have curvilinear incised elements, roughly comparable in proportions (6.4%) to the tempered Caddo incised sherds from Block I. One incised body sherd has deep and narrow zigzag incised lines (not duplicated among the tempered incised sherds from the Boyette site); its interior thickened body suggests this sherd is part of a sandy paste bottle.

Among the incised-punctated sandy paste sherds, there is also a wide variety of decorative elements. Most consist of straight, diagonal, or opposed incised lines (occasionally broad-lined but mostly narrow and V-shaped) that have created triangular or circular zones filled with different sorts of punctations on vessel rims. Triangular punctated-filled zones are most common (see Figure 4a-b), although there are circular punctated-filled zones on a few sherds; circular punctations typically filled these incised zones. Again, these characteristics of the sandy paste incised-punctated sherds from the Boyette site are basically the same seen on the tempered Caddo incised-punctated sherds, although the frequency of curvilinear-circular zoned-incised-punctated sherds are much less common (6.7%, compared to between 29-49% of all the incised-punctated tempered Caddo sherds) among these sandy paste decorated sherds. Furthermore, fingernail and linear punctated-filled zones are absent among the sandy paste incised-punctated sherds, and the frequency of tool punctated elements...
(60% of the incised-punctated sherds have tool punctations) is considerably higher in the sandy paste sherds from Block I at the Boyette site.

One distinctive sherd (with a suspension hole) has broad and deep incised lines above two or three curvilinear rows of large circular punctations (see Figure 4h). A large suspension hole has been drilled through one of the curvilinear punctated rows. Another sherd has a single straight incised line with closely nestled small tool punctations on either side of the line; it does not appear to be part of a punctated-filled triangular incised element.

The punctated sherds include tool (see Figure 4d), cane, and circular punctated (also probably made with a tool, but the circular punctated marks are sufficiently distinctive to warrant a different categorization) elements. Most of the Block I punctated sandy paste sherds have circular punctations (61.5%), either small or large in execution; the Caddo punctated sherds are mostly made with a tool that was triangular-shaped on its end, although circular punctated elements are characteristic of the Early ceramic set defined from the Boyette Caddo decorated sherds. The large circular punctures are deeply tool impressed—probably with a cane tool—causing a raised ridge of clay inside the punctation itself. The small circular tool punctations are pin-prick-sized (preserving the impression of the small tool head) and usually occur in narrow rows; these latter punctations have no counterpart in the tempered Caddo punctated sherds. Another notable difference between the sandy paste punctated sherds and the tempered punctated sherds is the absence of both fingernail or linear punctations among the former.

In summary, while incised, punctated, and incised-punctated decorative elements are present in both the sandy paste sherds (from 0-50 cm bs) and the tempered Caddo sherds from the Block I ceramic assemblage at the Boyette site (see Table 7), the two different assemblages do not have the same proportion of specific elements or motifs. Although sample size differences may play a role in the fact that there are considerable proportional differences between the two assemblages—or they may be in fact stylistically different (and hence temporally different)—nevertheless the same decorative decisions were made by the potters that decorated the two wares. That is, among the incised sherds, simple straight and geometric designs were preferred; the punctated sherds were decorated most commonly with straight rows of punctations executed with a tool; and incised-punctated sherds usually had triangular incised zones filled with punctations. Usually, the incised zoned were filled with triangular punctuations. This suggests that both wares were made during the Early Caddo occupation in Block I at Boyette.

Among the decorated sandy paste sherds from the Boyette site are a few larger sherds where vessel forms could be determined. Most appear to be from straight-walled vessels—probably jars and bowls with rounded bases—but there is at least one bottle sherd and several sherds from carinated bowls (one with rows of small circular punctuations and another with opposed incised lines). The same kinds of vessel forms were noted in the tempered Caddo decorated wares.

**Early Caddo tempered ceramics**

The Early Caddo ceramics at Lake Naconiche are distinguished by engraved fine wares (Figure 5a-b) and incised, punctated, and incised-punctated utility wares. Among the rims from bowls and carinated bowls, Holly Fine Engraved is only present in Block II at the Boyette site (Table 8), and is certainly the most distinctive engraved ware in the Early Caddo ceramic set. Also in Block II, other common rims have sets of horizontal lines, diagonal lines, vertical and horizontal lines, or broadly excised horizontal and vertical engraved lines. These latter rims are from a vessel with a non-tempered sandy paste, suggesting there is a temporal relationship between this early engraved element and the continued use of sandy paste pottery, which is otherwise being made and used for plain or simple decorated vessels in East Texas up until the 9th century A.D. or later.

Early set engraved rims from Block I include a wide variety of decorative elements, primarily geometric designs (i.e., diagonals and opposed lines) as well as sets of horizontal lines (see Table 8), but geometric and horizontal engraved decorations are characteristic of Lake Naconiche engraved wares from the earliest to the latest prehistoric Caddo ceramics. More distinctive engraved rim elements include cross-hatching and hatched zones (oriented in diagonal, curvilinear, and vertical directions on the rim), as well as cross-hatched and hatched pendant triangles and a circle and cross (Figure 5). Although the low number of engraved rims from Block II precludes definitive conclusions, it is interesting to note the absence of hatched engraved rims in these archeological deposits, but their relative frequency in the Block I engraved sherd assemblage (see Table
Figure 5. Engraved rim and body sherds from the Boyette site: a, Block I; b, Block II.
Table 8. Engraved rim decorative elements at the Boyette site.

| Element                             | Block I   | Block II  |
|-------------------------------------|-----------|-----------|
| cross-hatched lines                 | 15.0*     |           |
| cross-hatched pendant triangle      | 1.7       |           |
| circle and cross                    | 1.7       |           |
| hatched zones                       | 18.3      |           |
| Holly Fine Engraved                |           | 27.3      |
| horizontal lines                   | 16.7      | 36.3      |
| horizontal-vertical lines          | 3.3       | 18.2**    |
| horizontal and diagonal lines      | 3.3**     |           |
| diagonal lines                     | 25.0      | 18.2      |
| diagonal and opposed lines         | 1.7       |           |
| opposed lines                      | 3.3       |           |
| vertical lines                     | 1.7       |           |
| hatched pendant triangles          | 5.0       |           |

N = 60, 11

*percentage; **both sandy paste

8). Given that hatched rims are also rather common in the Middle Caddo ceramics, their occurrence in Block I at the Boyette site suggests that the earliest Caddo occupation comprising the Early Caddo ceramic set was in Block II, followed by Block I.

One of the rims has deeply excised horizontal and diagonal lines, all enclosed within a rectangle (see Figure 6f). This particular rim is from a sandy paste non-tempered vessel. A larger rim of the same vessel was recovered from Unit 3 in the test excavations at the Boyette site (Perttula 2002:Figure 4.107a).

Early Caddo engraved body sherds from Block II include hatched pendant triangles (Figure 7c, f) and Holly Fine Engraved (Table 9). Engraved body sherds in Block I are dominated by cross-hatched, hatched zones, and sherds with curvilinear elements, as well as large pendant triangles. Holly Fine Engraved sherds comprise 6% of the engraved body sherds.

In addition to these distinctive Early Caddo engraved body sherds, a goodly number also have simple straight or geometric elements, including horizontal lines, parallel lines, opposed lines, diagonal lines, and vertical lines. These body sherds comprise 28.1% of the Block I engraved body sherds (see Table 9).

The Early Caddo engraved bottle sherds from Block II at Boyette are dominated by Holly Fine Engraved sherds (Table 10). The others have simple sets of either parallel or curvilinear-horizontal lines, possibly also from Holly Fine Engraved bottles (see Suhm and Jelks 1962:Plate 40e, g).

The bottle sherds from Block I at the Boyette site, also part of the Early Caddo ceramics, primarily have sets of curvilinear engraved lines, but both Hickory Engraved and Holly Fine Engraved bottles comprise part of this distinctive engraved assemblage (see Table 10). Less common, but still apparently diagnostic of the Early Caddo ceramic set are semi-circles and panel and negative oval elements (see Table 10).

Boyette site vessel

The one vessel from a funerary context at the Boyette site is a Holly Fine Engraved globular bowl from Feature 13A in Block II (Figure 8a). The engraved decoration is confined to the rim, and consists of sets of 12 large triangular panels around the rim filled with diagonal engraved lines that are pitched in opposite and alternating directions from one triangular panel to the next (Figure 8b). Each large triangular panel has an excised triangle in one corner, alternating from the top left to the bottom left corners from one panel to another. There is a single horizontal engraved line that encircles the bottom of the rim and each of the triangular panels; rim height is 4.9 cm.
The bowl is 14.71 cm in height, with a 14.68 cm orifice diameter. It is tempered with grog, and was fired in a reducing environment, then allowed to cool in the open air. The rim is 5.2 mm thick, the body is 6.2 mm thick, and the flat base is only 5.7 mm thick. The exterior vessel surface is well burnished, as is the interior rim area; the interior vessel body is poorly smoothed. There are small patches and flecks of charred organic remains on the lower exterior vessel body, and in one area along the body-base juncture on the vessel interior, as well as several fire clouds.
Figure 7. Distinctive engraved elements from Early Caddo sherds in Block II at the Boyette site.

Figure 8. Holly Fine Engraved vessel from Feature 13A: a, photograph; b, drawing of the rim motif.
Table 9. Engraved body sherd decorative elements, carinated bowls and bowls, from the Boyette site.

| Element                         | Block I | Block II |
|---------------------------------|---------|----------|
| large pendant triangle          | 7.5*    | 50.0     |
| Holly Fine Engraved             | 6.0     | 25.0     |
| cross-hatched lines             | 19.4    | –        |
| cross-hatched zone              | 3.0     | –        |
| horizontal                      | 2.2     | –        |
| horizontal and diagonal lines   | 2.2     | –        |
| horizontal-vertical-zigzag      | 0.7     | –        |
| horizontal and cross-hatched lines | 3.7   | –        |
| horizontal and opposed lines    | 0.7     | –        |
| parallel lines                  | 8.2     | –        |
| opposed lines                   | 6.7     | –        |
| diagonal lines                  | 3.0     | –        |
| vertical lines                  | 0.7**   | –        |
| hatched zones                   | 13.4    | –        |
| hatched zones and opposed lines | 0.7     | –        |
| hatched zones and curvilinear lines | 3.0 | –        |
| hatched zone and diagonal lines | 0.7     | –        |
| curvilinear/circular lines      | 12.7    | –        |

N 134 4

*percentage (do not total to 100% because non-diagnostic elements [i.e., single straight lines] are not included in the tabulation); **sandy paste

Table 10. Engraved bottle sherd decorative elements from the Boyette site.

| Element               | Block I | Block II |
|-----------------------|---------|----------|
| Hickory Engraved      | 23.5*   | –        |
| Holly Fine Engraved   | 5.9     | 71.4     |
| semi-circles          | 11.8    | –        |
| panel and negative ovals | 5.9  | –        |
| parallel lines        | –       | 14.3     |
| curvilinear-horizontal lines | –   | 14.3     |
| curvilinear           | 52.9    | –        |

N 17** 7

% of all engraved body sherds 9.5 58.3

*percentage; **includes three Hickory Engraved rims
Utility Wares at Boyette

Among the incised utility wares, the decorative elements that differentiate the Early Caddo from later Caddo ceramic assemblages are the more common use of cross-hatching (including cross-hatched and horizontal sets of lines), diagonal incising on vessel bodies, and the occurrence of various Dunkin Incised motifs (Table 11) on both rim and body sherds (Figure 9d, h and Figure 10b). Cross-hatched rims comprise between 16.7-32.1% of the rims from both blocks at the Boyette site, and 2.3-2.4% of the incised body sherds have diagonal incised lines. In later Caddo ceramic assemblages at Lake Naconiche, only 3.7-6.7% of the incised rims are cross-hatched; diagonal incised rims are much more common (Perttula 2008:Table 7-10).

The punctated rim and body sherds at the Boyette site are characterized primarily by a wide variety of decorative elements (Table 12), among them being the ubiquitous tool punctated row element. However, the most distinctive punctated elements in the Early Caddo ceramics compared with later punctated utility wares is the more common use of rows of fingernail (40% of the punctated sherds, but less than 20% at each of the other Lake Naconiche sites), linear, and circular and small circular punctuations as decorative elements (Table 13). Another distinctive punctated decorative element is the use of free or randomly spaced tool punctates on the vessel body.

In the case of the incised-punctated decorative elements, the Early ceramic set includes as diagnostic Weches Fingernail Impressed, var. Weches (see Figure 9b and Figure 10a), incised triangles filled with tool punctations, and in Block II at Boyette, rims with horizontal incised lines above rows of tool punctates; the latter two incised-punctated decorative elements are also present in later Lake Naconiche assemblages (Table 14). In Block I, there also are a considerable proportion of rims with curvilinear or circular incised zones filled with linear or tool punctates (see Figure 9c, e), sometimes occurring in association with diagonal incised lines.

Figure 9. Distinctive utility ware decorative elements in Block I: a, c, e-f, incised-punctated; b, Weches Fingernail Impressed, var. Weches; d, Dunkin Incised; g-h, incised lines; g has a suspension hole below the vessel lip.
Figure 10. Block II distinctive utility ware decorative elements: a, Weches Fingernail Impressed, var. Weches; b, Dunkin Incised; c, incised-punctated; d, diagonal opposed incised lines; e, horizontal and vertical incised lines.

Table 11. Incised decorative elements by block.

| Element               | Block I | Block II |
|-----------------------|---------|----------|
| **Rim**               |         |          |
| diagonal              | 26.4*   | 16.7     |
| horizontal            | 11.3    | 50.0     |
| horizontal-diagonal   | 3.8     | –        |
| opposed               | 11.3    | –        |
| cross-hatched         | 32.1    | 16.7     |
| vertical              | –       | 8.3      |
| curvilinear           | 9.4     | 8.3      |
| diagonal-curvilinear  | 3.8     | –        |
| Dunkin Incised        | 3.8     | –        |
| N                     | 53      | 12       |
| **Body**              |         |          |
| parallel              | 37.0    | 62.8     |
| horizontal and vertical| –      | 2.3      |
| opposed               | 9.7     | 14.0     |
| opposed-diagonal      | 1.2     | –        |
| cross-hatched         | 18.2    | –        |
| cross-hatched-horizontal| 1.2  | –        |
| diagonal              | 2.4     | 2.3      |
| vertical              | 0.6     | –        |
| curvilinear-semi-circle| 9.1  | 2.3      |
| Dunkin Incised        | 0.6     | 2.3      |
| N                     | 165     | 43       |

*percentage
Table 12. Punctated decorative elements in the Boyette sherds.

| Element                        | Block I | Block II |
|--------------------------------|---------|----------|
| tool punctated row             | 23*     | 42       |
| tool punctates                 | 5       | –        |
| tool punctates, free           | 1       | –        |
| small tool punctates, free     | 11      | –        |
| tool punctates under lip       | –       | 2        |
| diagonal tool punctated row    | 0.7     | 2        |
| tool-fingernail punctates      | 0.7     | 2        |
| small cane punctate row        | 0.7     | –        |
| fingernail punctated row       | 29      | –        |
| fingernail punctates           | 11      | –        |
| diagonal fingernail punctated row | 1.3   | –        |
| curvilinear punctate, cf. Weches | 0.7 | –        |
| linear punctates               | 5       | 11       |
| circular punctates             | 3       | –        |
| small circular punctates       | 5       | –        |
| N                              | 149     | 52       |

*percentage

Table 13. The prevalence of punctated decorative elements by period.

| Element                        | Early Caddo | Middle-Late Caddo | Late Caddo |
|--------------------------------|-------------|------------------|------------|
| fingernail punctated row       | X           | X                |            |
| linear punctated               | X           |                  |            |
| small circular punctated row   | X           |                  |            |
| small tool punctates, free     | X           |                  |            |
| tool punctated row             | X           |                  |            |
| cane punctated row             | X           |                  |            |
| Naconiche Punctated            | X           |                  |            |
| tool punctates under lip       |              |                  | X          |

*includes 41NA231, 41NA235, and 41NA242 (all apparently abandoned by ca. A.D. 1450)

and semi-circles filled with punctations (see Figure 9a); these resemble designs seen on Crockett Curvilinear Incised vessels. One Early Caddo rim has cross-hatched incised lines forming diamonds filled with punctations (see Figure 9f).

The incised-punctated body sherds in the Early Caddo ceramic assemblages from the Boyette site share one decorative stylistic tendency: the use of circular or curvilinear incised zones filled with punctates (Table 15): between 28.6-49% of the body sherds from the Boyette site blocks have this distinctive decorative element on utility wares. Both blocks at the Boyette site also have many triangular incised sherds filled with punctates: in the case of Block I, most of them are filled with tool punctates (as is also the case with the later Lake Naconiche incised-punctated ceramic assemblages), while fingernail punctates and cane punctates were more often employed to fill these incised zones in the Block II ceramics.

Incised-punctated sherds with incised lines either above or below rows of tool or fingernail punctates are particularly common in Block II at the Boyette site. As with the decorated rims, Weches
Table 14. Incised-Punctated rim decorative elements by block.

| Element                                           | Block I | Block II |
|---------------------------------------------------|---------|----------|
| Weches Fingernail Impressed                       | 18.2*   | 20.0     |
| diagonal incised next to tool, linear, or circular punctates | 18.2    |          |
| circular or curvilinear incised                   | 18.2    |          |
| zones filled with tool punctates                   | 4.5     |          |
| curvilinear incised zones filled with linear punctates | 4.5     |          |
| cross-hatched incised with circular punctates      | 4.5     |          |
| vertical incised with tool punctated zones         | 4.5     |          |
| incised panel-fingernail punctates                | 4.5     |          |
| circular-diagonal incised and tool punctates       | 4.5     |          |
| semi-circular and incised triangles filled with tool punctates | 4.5     |          |
| incised triangles filled with tool punctates       | 9.1     | 20.0     |
| horizontal incised and rows of tool punctates      |         | 60.0     |
| N                                                 | 22      | 5        |

*percentage

Table 15. Incised-Punctated body decorative elements.

| Element                                           | Block I | Block II |
|---------------------------------------------------|---------|----------|
| circular or curvilinear incised zones filled with punctates | 49*     | 28.6     |
| triangular incised zones filled with tool punctates  | 39      |          |
| triangular incised zones filled with circular punctates | 2.8     |          |
| triangular incised zones filled with fingernail punctates | 1.4     | 14.3     |
| triangular incised zones filled with cane punctates  |         | 14.3     |
| incised elements with tool punctated rows           | 2.8     | 14.3     |
| incised elements with fingernail punctated rows     |         | 28.6     |
| Weches Fingernail Impressed                         | 4.2     |          |
| N                                                 | 72      | 7        |

*percentage
similarities in vessel decorations in both fine wares and utility wares between the Boyette site and the George Davis site (Stokes and Woodring 1981:Table 24). For example, Stokes and Woodring (1981:Table 24) note that Holly Fine Engraved vessel sherds and Weches Fingernail Punctated sherds comprise both between 16-41% of the more than 14,000 decorated sherds from mound and domestic contexts across the site, and incised-punctated Crockett Curvilinear Incised and Pennington Punctated Incised sherds are also fairly well-represented (2-19% by excavation areas) at this mound center. Only a handful of sherds from the Boyette site were identified as coming from either Holly Fine Engraved or Weches Fingernail Impressed/Punctated vessels. Less than 13% of the sherds at the Boyette site have incised-punctated decorative elements, although between 30-50% of these have curvilinear zoned incised and punctated elements, few of which remotely resemble in execution Crockett Curvilinear Incised vessels. At best, then, the few similarities in vessel decorations in both fine wares and utility wares between the Boyette site and the well-known George C. Davis site are indicative of contemporaneous Caddo occupations—and perhaps even a modicum of contact/interaction—but they do not belong to the same Caddo groups. Instead, the Boyette site is apparently a component of a local and culturally separate Caddo community in the upper Angelina river basin, one that is currently taxonomically unidentified.

One question that languishes unanswered is the cultural relationship between the latest Mossy Grove sites in East Texas and the earliest Caddo sites in the region. Concerning the historical traditions of the Alto phase Caddo peoples that lived in this general area, Story (2000:25) has commented that “there are no earlier archeological remains in the middle and upper Neches River basin that can plausibly be identified as an antecedent complex to the Alto phase component [at the George C. Davis site].” She goes on to speculate that “earlier Caddoan developments [earlier than the late A.D. 800s] must have taken place elsewhere, probably to the northeast in either the Sabine or Red River basins.” These suggestions go hand in hand with the notion that the George C. Davis Caddo mound center represents a founding colony in a part of East Texas that was not previously within the territory occupied by Caddo peoples.

Corbin (1989:121) also subscribes to the notion that the Caddo occupation of East Texas, or at least those areas south and west of the Sabine River, originates outside of East Texas and that the Caddo were newcomers to the region. He also proposed that the Caddo populations who had come into the area in the A.D. 800s lived coevaly with the East Texas Woodland peoples (i.e., the Mossy Grove Culture peoples) who were already there, and that these Woodland peoples continued “their dispersed lifestyle, only slightly displaced on the landscape, with the additions of maize, better pottery and the bow and arrow.” Under this scenario, the indigenous Woodland population was acculturating and modifying some of what was early Caddo culture into their own lifestyle to create a post-early Caddoan culture we call Late Caddo on a cultural base that was already in place and never disappeared. The only place where early Caddo blinked into almost instantaneous existence in this area was at a few specific sites (Corbin 1989:124).

Probably the only means to fully evaluate the relationships between, and cultural affiliations of, the Mossy Grove Woodland period groups and the earliest Caddo archaeological sites will be exten-
sive bioarchaeological and genetic studies of DNA, oxygen/strontium isotopes, and genetic markers preserved on human skeletal remains, as these provide the highest probability of establishing cultural and biological relationships between various groups of people recognized in the archaeological record. It is doubtful, however, that this can ever be fully achieved because to date not a single Woodland period burial has ever been found in a domestic site in East Texas, and 9th century Caddo sites are almost as rare, whether with burials or not. Furthermore, it is an open question whether DNA or traces of genetic markers left on human skeletal remains are even preserved in any such sites occupied on the cusp of the Woodland to earliest Caddo time periods.

That being said, the prehistoric occupations at the Boyette site are nevertheless relevant to the questions and scenarios posed by Story (2000) and Corbin (1989). From radiocarbon dates obtained in the excavations here, as discussed above, there are two occupations of interest, one that dates (with a 95% probability) from cal A.D. 667-847 (with a mean calibrated intercept from four dates of AD 973) and the other that dates (with a 95% probability) between cal AD 973-1075, with a mean calibrated intercept (from four dates) of AD 1065. Two of the four dates have a mean calibrated age range of AD 975-990 (calibrated intercepts of AD 880 and 900), while the other two have a mean calibrated age range of AD 985-1160 (calibrated intercepts of AD 1040 and 1050). These radiocarbon ages suggest that the second occupation may be represented by two different episodes of settlement.

The earlier of the two occupations (identified in the deepest archaeological deposits in Blocks I and II) has sandy paste Goose Creek Plain and decorated Mossy Grove ceramics, Gary and Kent dart points (and probably some early arrow point forms), a few features, but no evidence of structures, middens, burials, or use of cultigens. In most respects, this early occupation at the Boyette is a fairly typical Mossy Grove period occupation. There is one (to some) troubling aspect in the material culture of this component: decorated sandy paste vessel sherds are apparently atypically abundant (more so than any other known Mossy Grove component, unless all of them have moved by bioturbation from overlying Caddo archaeological deposits, which is unlikely), and the incised, incised-punctated, and incised decorative elements almost eerily prestage the same ceramic vessel decorations noted in the later ca. AD 985 component. In the latter occupation, these styles of vessel decoration are common on both sandy paste and tempered pottery wares. There are at least a few examples of non-traditional vessel forms in the ca. AD 743 component, including carinated bowls and a bottle. Such vessel forms are well represented in the later ca. AD 985 component, as they are in post-A.D. 1100 Naconiche Caddo ceramic vessel assemblages.

What about the ca. AD 985 component: is it affiliated with the Caddo or is it an acculturated Mossy Grove site? First, it can be noted that cultigens are absent in the archaeological deposits associated with this occupation, although the numbers and arrangements of features suggest that this occupation was a relatively sedentary one as there is evidence of sequential central hearths from two different houses that date to the earlier of the two later occupational episodes (i.e., ca. A.D. 750-990 from radiocarbon, but centering around A.D. 880-900). There are stemmed arrow points in the assemblage, including those of the Alba type (the dominant type in the Alto phase) and an abundance of ceramic vessel sherds, including many from carinated bowls and bottles that have engraved designs (i.e., Holly Fine Engraved and Hickory Engraved) much like those noted from other early Caddo contexts in the region. Much of the pottery is tempered—primarily with grog—but sandy paste pottery remains an important part of the ceramic vessel assemblage in this later component. More importantly, the sandy paste pottery in this late 9th-early 10th century occupation is commonly decorated with the same decorative elements common in the tempered wares, even including some amount of engraved sandy paste pottery.

From the evidence at hand from the Boyette site at Lake Naconiche, it appears that there were changes in material culture—the use of temper in the manufacture of pottery vessels, subtle changes in vessel form, and innovations in pottery vessel decoration—that were either underway by the mid-8th century and/or had been adopted by the aboriginal peoples living along Naconiche Creek by the late 9th century, a period of some 150 years (or at least six generations). The choice and inspiration to decorate sandy paste pottery cannot be laid at the feet of any Caddo colonizers from the George C. Davis site or others of its ilk because this was taking place at least one century before the appearance of that site on the Neches River. The same may be said for the appearance of carinated bowl and bottle forms in late Mossy Grove contexts at the Boyette site. Such innovations as these appear to have develop-
oped amongst Mossy Grove groups without having to invoke a Caddo "influence," if that is relevant in the context posed by Story (2000) and Corbin (1989). Perhaps it is plausible that further ceramic innovations such as adding temper to the paste of vessels, or even choosing to decorate a vessel after it was fired rather than while the vessel still had a wet paste, were not beyond the creative reach of the people that lived along Naconiche Creek or in other areas of East Texas.

Thus, in the end, and based on admittedly very sketchy archaeological information, I do not view the 9th century occupation at the Boyette site as acculturated Mossy Grove groups influenced by the superior culture of the Caddo who were expanding into the area. Rather, I view the 7th and 8th century population at Lake Naconiche as directly antecedent to the 9th century population that lived at the Boyette site. In most particulars, the preponderance of archaeological evidence from this later occupation indicates that the population that lived there was Caddo, or at least one of many different groups living in East Texas that can be considered Caddo in an ethnic sense. The 7th and 8th century A.D. Woodland population is considered ancestral to the Caddo. This does not mean that the Woodland or earliest Caddo populations in the Attoyac Bayou basin had any ethnic or underlying genetic relationship with the founding population at George C. Davis—that issue still remains to be teased out. It does mean that the George C. Davis Caddo population was not the only one in East Texas in the 9th century A.D.

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