How are identities and practices created and transformed by the movement of peoples, objects, and ideas between regions and across social boundaries? Archaeology is well positioned to shed light on this issue because two of its central study subjects, space and objects, played a key role in how past social agents negotiated their social, political, economic, and cultural relations (Silliman 2010:29; see also Joyce and Hendon 2000; Pauketat 2001a; Thomas 2000). Domestic foodways represent an ideal arena in which to investigate identity and practice, in so far as processes of food preparation, consumption, and storage require the use of various material media (ceramics, processing implements, foodstuffs) as well as movement through various spaces, public and private, that provide opportunities for social interaction or restrictions on visibility and community integration (Gifford-Gonzalez and Sunseri 2007; Twiss 2012; Wright 2000). In this study, I employ a practice-based framework for investigating early Mississippian culture contact and identity negotiation in the Central Illinois River Valley through the lens of foodways. The Eveland phase (A.D. 1100–1200) was a setting of significant cultural change as a result of the movement of Cahokian people, objects, and ideas into the region. Recent analysis of excavated materials from the Lamb site in the southern portion of the CIRV affords a closer look at this historical process. Using ceramic and pit feature data, I assess Cahokian influence on traditional Late Woodland-era culinary practices. I conclude that although local residents were actively adopting some aspects of Mississippian culture (including Cahokia potting traditions), they retained traditional Late Woodland organizational practices of cooking, serving, and storing food. By placing the organization of foodways at the center of this study, this paper illuminates another dimension of Cahokian contact in the region.

Este artículo utiliza un enfoque basado en la teoría de la práctica para investigar el contacto cultural y la negociación de identidades durante el periodo Mississippian Temprano en el valle central del río Illinois (CIRV), a través de la óptica de las costumbres alimentarias. La fase Eveland (AD 1100–1200) fue un escenario de cambio cultural significativo como resultado de la circulación de personas, objetos e ideas procedentes de Cahokia en la región. Los recientes análisis de materiales excavados del sitio Lamb en la parte sur del CIRV permiten un examen más detallado de este proceso histórico. Usando datos de la cerámica y los pozos del sitio, evalúo la influencia de Cahokia en las prácticas culinarias tradicionales de la población Late Woodland en esta área. Concluyo que aunque los residentes locales estaban adoptando activamente algunos aspectos de la cultura Mississippian (incluyendo la cerámica de estilo Cahokia), conservaron las prácticas organizativas tradicionales de cocinar, servir y almacenar alimentos. Al colocar la organización de las costumbres alimentarias en el centro de este estudio, el presente ensayo ilumina otra dimensión del contacto cultural con Cahokia en la región.
Silliman 2005; Thomas 1991; van Dommelen 2006) with studies of material practices in the more distant past of native North America. Archaeologists engaging with postcolonial theories have generated a productive set of analytical frameworks for understanding changes in identity, social organization, and material practices that resulted from European/Indigenous colonial encounters. These approaches have good potential for investigating similar issues in Mississippian (A.D. 1000–1500) archaeology (see, e.g., Alt 2006), and for pre columbian indigenous societies more broadly, with implications for the ways we interpret archaeological assemblages from prehistoric contact settings as well as the types of datasets we select to analyze.

The early Mississippian expansion of Cahokian peoples, ideas, and practices has long been of interest to archaeologists. The political consolidation of Cahokia, the most complex prehistoric polity in North America (Emerson 1997; Fowler 1997; Kelly 1990a; Milner 1990; Pauketat 2004; Pauketat and Emerson 1997), had far-reaching impacts for indigenous groups in the Late Prehistoric Southeast and Midwest. Indeed, archaeologists have recognized a wide range of changes in material culture and spatial organization resulting from the northward expansion of Mississippian

Figure 1. Map of the Central Illinois River Valley with relevant sites.
frontiers during the eleventh and twelfth centuries, which resulted in the rapid transformation of native lifeways throughout portions of the upper Mississippi Valley (Caldwell 1964; Emerson and Lewis 1991; Pauketat and Emerson 1997; Stoltman 2000). However, the historical details of culture contact and the resulting adoption of Mississippian traditions by Late Woodland groups in Cahokia’s hinterlands remain debated among local scholars.

In this study, I examine the impact of Cahokian influence on Late Woodland groups in the Central Illinois River Valley (CIRV) of west-central Illinois, with data from the early Eveland-phase (A.D. 1100–1150) Lamb site as a case study (Figure 1). The Eveland phase (A.D. 1100–1200) was a setting of significant cultural change as a result of the movement of Cahokian people, objects, and ideas into the region, evidenced archaeologically by the appearance of Mississippian ceremonial buildings, mounds, and mortuary complexes, as well as finely crafted Cahokia-style artifacts, including Ramey Incised and Powell Plain pots, tri-notched arrow points, and copper ornaments (Conrad 1989, 1991; Harn 1991). CIRV scholars have examined various artifact traditions, architectural construction techniques, mortuary practices, and settlement patterns in relation to American Bottom assemblages to broadly document interaction between Mississippian and local Late Woodland groups (e.g., Conrad 1989, 1991; Esarey 1996, 2000; Harn 1975, 1978, 1991). Less understood are the impacts on local foodways in these northward-expanding Mississippian frontiers. My interest lies in understanding what changes in foodways can tell us about the scale and depth of Cahokian contact—how influential were Cahokians in the broader Mississippian world?

Using data from the Lamb site in the southern portion of the CIRV (see Figure 1), I examine the ways in which the site’s early Mississippian residents prepared, served, and stored foodstuffs, as a lens to examine the impact of Cahokian influence on Late Woodland-era culinary practices. To this end, I explore patterns in ceramic data as well as morphometric and artifact data from pit features. A close consideration of pit features offers a unique perspective because (1) pit features are a lesser-used medium for understanding changes in cultural practice, and (2) archaeological discussions of food often focus on the foods themselves, in terms of contributions to ancient diet, rather than on processes of food preparation, specifically cooking (Atalay and Hastorf 2006:305). Foodways are a useful dimension along which to analyze culture contact scenarios, as they are of profound importance in social life, structuring daily social relations and reinforcing shared cultural values (e.g., Meigs 1988; Voss 2005; Wright 2000). By placing the organization of food preparation, serving, and storage at the center of this study, I hope to illuminate and engender another dimension of Cahokian contact.

Specifically, I argue that although the Eveland-phase residents at the Lamb site were actively adopting some aspects of Mississippian culture (including Cahokia potting traditions), they retained traditional Late Woodland organizational practices of cooking, serving, and storing food. Certainly, the impact of Cahokian contact was transformative for the local inhabitants of the Eveland-phase CIRV, resulting in the rapid adoption of new politico-religious beliefs (Conrad 1989, 1991; Harn 1991; Wilson 2012a) as well as changes in subsistence strategies, including intensified maize production (Bardolph 2012; VanDerwarker et al. 2013). Alongside these changes, however, is evidence for a rural persistence of traditional household and community organization related to cuisine. To set the stage for assessing this dynamic, I turn to a brief review of recent theoretical developments related to culture contact, identity, and practice, followed by regional and historical background and then a case study from the CIRV.

**Theorizing Identity and Practice**

While studied broadly in archaeology, a wealth of research on social identity is situated within culture contact studies. Although there has been critique of the unproblematic use of the term “culture contact” (e.g., Silliman 2005), I use the term as a heuristic device for examining encounters of diverse groups that resulted in cultural interactions and entanglements (*sensu* Thomas 1991). This definition is particularly important, as “contact” is often thought of in terms of the pre-contact/post-contact divide of the sixteenth-century colonial era; however, culture contact scenarios extend back into the ancient past and are not nec-
nessarily structured by violence or power imbalances. Indeed, in recent years, scholars have (nessarily) complicated perceptions of power relations in situations of contact, rejecting essentialized colonizer/colonized dichotomies that solely stress notions of power over one group by another and the rupture of native communities from their past (Voss 2005:461; see Panich 2013; Silliman 2005; Wilcox 2009). This facet of recent research articulates with a critical element of the politics of postcolonial and Indigenous archaeologies, the recognition that even in overtly asymmetrical colonial encounters, influence and change from dominant groups is not all encompassing. Groups selectively adopt and filter objects and ideas through their local perspectives, cultural referents are altered, and historical traditions become reconfigured (Pauketat 2001a:6; see also Alt 2006; Jordan 2009; Stein 2005).

The challenge confronting archaeologists is how to operationalize these interactions, particularly in the absence of textual evidence. A longstanding assumption by archaeologists has been that either change or continuity from contact encounters comprises outcomes that are recognizable (if not measurable) through material remains, and therefore applicable to the cultural groups that produced those materials. However, interpretations of data are complicated by problematic assumptions that single types of objects or practices (pottery, architectural techniques, burial styles) are representative of a single group, class, or identity of people. Silliman (2009; see also Loren 2001) highlights this important interpretive problem in culture contact studies—that archaeologists, when confronted with various materials, require some form of categorical scheme to make sense of them. At the onset of analysis, data must be classified into taxonomically meaningful categories, often created to identify geographic or temporal variability (e.g., European/Indigenous, Historic/Prehistoric, Late Woodland/Mississippian).

As a result, those pre-defined categories take on “ontological” statuses (Silliman 2009:213), generating problematic expectations of what identities should look like archaeologically. Deciding a priori what is local vs. non-local taxonomically does not allow for consideration of how objects may have been differentially adopted, interpreted, or reused by diverse groups. Pushing these colonial taxonomic distinctions further into the past, we can think about how we evaluate prehistoric contact situations in the absence of textual evidence, and about the categories we construct to organize and understand our data. Our approaches are necessarily materialist, and our understandings of past cultures become structured by stages and phases, with distinctive horizon markers that fall into chronological periods with clear-cut beginning and end dates (e.g., Late Woodland, Mississippian).

To avoid the pitfalls of rigid categorical schemes, archaeologists have turned to relational theories that stress human action for evaluating social identity (e.g., Dobres 2000; Hegmon and Kulow 2005; Lightfoot et al. 1998; Pauketat 2001b). Current work grounded in practice theory (Bourdieu 1977; Giddens 1984) is centered on how identities are constructed through material media and use of space. The way people make things, or do things that result in material patterns, “typically and perhaps mainly represent choices that are learned in participation in particular social and cultural settings” (Wills 2009:286). Thus, the complexity of prehistoric contact encounters can be best understood through multiple lines of evidence that evaluate (1) objects and spaces that are used to overtly express and communicate certain identities and affiliations; and (2) behind-the-scenes contexts and daily practices that unconsciously structure and reify social identities (the habitus of domestic routines, see Bourdieu 1977).

To demonstrate the utility of this approach, I turn to an archaeological study of foodways from the Eveland-phase (A.D. 1100–1150) Lamb site, situating my case within broader discussions of eleventh- and twelfth-century processes of Mississippianization.

Regional Background

The mid-eleventh century emergence of political complexity in the greater Cahokian area had a profound influence on neighboring groups. Located in the American Bottom portion of the Mississippi floodplain, Cahokia was the largest Pre-Columbian city center in North America, with a multi-tiered settlement hierarchy, an estimated peak population of 8,000–15,000 people, and more than 100 earthen monuments (Fowler 1997; Kelly 1990a; Milner 1986, 1990; Pauketat and Emerson
1997). Cahokia-centric models for the origin and spread of Mississippian culture (e.g., Pauketat 2002) emphasize the uniqueness of the Cahokia polity, where a new social order was created and disseminated through material expressions of Mississippianism across the Southeast and Midwest beginning around A.D. 1050. Different regional groups made local organizational changes in order to generate aspects of Mississippian identity, evidenced by architectural shifts from single-post to wall-trench houses, reinvented religious expression, and the new and intensified crafting of material items, including shell beads, adze and hoe blades, triangular arrowheads, celts, and shell-tempered, red-slipped, incised pottery (Kelly 1990a; Milner 1990; Pauketat 1998; Yerkes 1983).

Scholars, including Emerson and Pauketat (2002; Pauketat 1997), argue that by the Lohmann phase (A.D. 1050–1100), Cahokians were increasingly engaged in producing new local symbols that promoted their unique political community. The rapid conversion to wall-trench architecture at Cahokia and the surrounding uplands has been interpreted as a symbolic statement of a new Mississippian identity or authority (Emerson 1997; Mehrer and Collins 1995; Pauketat and Alt 2005). The magnitude of feasting debris in central locations such as sub-Mound 51 at Cahokia indicates the importance of commensal politics in the acceptance and accommodation of Cahokian organization, identity, and lifeways (Pauketat et al. 2002:275). The archaeobotanical record in the American Bottom reveals a substantial increase in maize production during the period of Mississippian political consolidation (Lopinot 1997; Simon and Parker 2006), likely tied to its symbolic value and currency in competitive prestige-building activities (sensu Scarry 1993).

The Stirling phase (A.D. 1100–1150), the apogee of Cahokia’s political power, witnessed a further elaboration in the rules for cooking and serving food (Johannessen 1993:202). A greater variety of vessels were used for presentation and serving, which scholars link to increasingly hierarchical negotiations involving foodways (Pauketat et al. 2002; Wilson 1999; see also Welch and Scarry 1995). Among these vessels were well-crafted, highly burnished Ramey Incised jars that would have served as potent symbolic expressions of Mississippian cosmological order and worldview (Emerson 1989; Pauketat and Emerson 1991). Beyond the American Bottom proper, Cahokia-style material culture appears around A.D. 1050 in the archaeological record of various regions of the northwestern Midwest, including the CIRV, the Lower Illinois River Valley, the Apple River Valley of northwestern Illinois, the Upper Mississippi Valley (including the driftless area of southeastern Wisconsin), and the Red Wing area of Minnesota (Delaney-Rivera 2004; Emerson and Lewis 1991; Green and Rodell 1994; Price et al. 2007; Stoltman et al. 2008). Scholars have proposed a range of direct and indirect contact scenarios, including detached emulations of Cahokia by local people; limited engagements with or small-scale movements of southern peoples; or whole-group site-unit intrusions into northern regions. Recent analyses of excavated materials from the CIRV afford a closer look at this historical process.

**Mississippianization in the CIRV**

Conrad (1991) divides the Mississippian occupation of the CIRV into four sequential phases—the Eveland (A.D. 1100–1200), Orendorf (A.D. 1200–1250), Larson (A.D. 1250–1300), and Crable (A.D. 1300–1450) phases, which correspond roughly to the growth and florescence of Mississippian culture in the American Bottom. There is limited evidence of early contact with Cahokia in the northern CIRV during the preceding Mossville phase (A.D. 1050–1100); ceramics recovered from the Rench site exhibit a mix of Cahokian and local Late Woodland stylistic influences (McConaughy et al. 1993:87). A strong Cahokia Mississippian influence is witnessed throughout the region during the early Eveland phase (A.D. 1100–1150) (Conrad 1991), the time period that is the focus of this paper.

Based on site distribution and ceramic stylistic data, scholars suggest that two contemporaneous Late Woodland groups occupied the CIRV, represented by the Bauer Branch phase in the south and the Maples Mills phase in the north (Esarey 2000; Green and Nolan 2000). I focus my discussion on the Bauer Branch phase, as the Lamb site (located in the southern CIRV) exhibits cultural continuity with local Bauer Branch traditions. Green (1976, 1987) originally defined the Bauer Branch phase as dating to A.D. 600–950, with sites primarily lo-
cated in the Sugar Creek and LaMoine River drainages in Schuyler and Brown counties. Diagnostic of the Bauer Branch phase is a distinctive grit-tempered, cordmarked, punctated-shoulder, notched-lip pottery series (Green 1976, 1987; Green and Nolan 2000:364). Additional investigations have extended the spatial boundaries of the Bauer Branch complex to include the southern Illinois Valley floodplains (Esarey 1988), and the Lamb site ceramic data suggest that Bauer Branch traditions persisted in the region until the period of contact with Cahokia-Mississippians, beginning around A.D. 1100 (see below).

Situated on bluff tops and upland ridges, Bauer Branch settlements are characterized by small residential units forming dispersed communities (Green and Nolan 2000:362). Burials with multiple interments and individuals with embedded projectile points indicate inter-group violence; however, Wilson (2012b:526; see also Emerson 2007) argues that regional hostilities were sporadic and small in scale, citing the lack of village fortifications in the area. Intrasite settlement data indicate that Bauer Branch–phase residents constructed both cold and warm weather domiciles, using deep pit features for storage and earth ovens (Green 1987:133, 251). Subsistence data from upland sites suggest low level food production of native starchy/oily seed crops and a limited amount of maize, combined with the collection of wild plants; faunal exploitation likely was focused on deer, fish, and freshwater mussels (Green 1987).

The introduction of Mississippian culture in the region resulted in important changes in settlement, subsistence, and artifact traditions. Situated in resource-rich floodplain and bluffs environments, early Mississippian settlement organization in the CIRV consisted of dispersed habitations linked to nodal ceremonial centers and mortuary complexes (Conrad 1989); settlements do not appear to be fortified. In contrast to the American Bottom, political development occurred at a much smaller scale in the CIRV; a regionally consolidated polity never developed, and dispersed settlement areas appear to have been politically autonomous (Conrad 1991). Archaeobotanical data from Eveland-phase sites indicate that subsistence strategies in the region changed with the transition to the early Mississippian period, including an intensification of maize production and decrease in nut collection (VanDerwarker et al. 2013). A range of finely crafted Cahokia-style material culture also appeared during the Eveland phase; early excavations at the Eveland site in Fulton County revealed evidence of wall-trench construction and Cahokia-style ceramics manufactured with local pastes (Conrad 1991; Harn 1975, 1991). Eveland has been interpreted as a nodal religious center for outlying communities; among the excavated structures at the site were three burned Mississippian ceremonial buildings, including a circular structure, a large rectangular building with a ramped entryway, and a cross-shaped building (Conrad 1989; Harn 1991). With no local precedent for these types of structures in the Woodland-era CIRV, Cahokian religion appears to have played an important role in the Mississippianization of the region. Whether the attraction of Cahokia Mississippianism to local Late Woodland groups was religious, political, economic, or otherwise, rapid affiliations with Cahokians and/or Cahokia-style material culture may have downplayed long-standing ethnic divisions among local groups in the region (Wilson 2013).

Citing the absence of fortifications and a paucity of violent skeletal trauma during the Eveland phase, Conrad (1991:124) suggests that initially, Mississippians were welcomed or invited into the region, and that abrupt cultural changes occurred as a result of migration. However, biodistance research negates the movement of a large number of people from the Cahokia region into the CIRV (Steadman 1998, 2001), and Wilson (2012a; Wilson and Delaney-Rivera 2012) argues that the appearance of Cahokia-style material culture and Mississippian practices was structured more by strategies of emulation by local groups than by in-migration of Cahokians. Pauketat (2004:114, 2013) suggests that people from various regions of the Upper Mississippi Valley made pilgrimages to Cahokia, and, upon returning home, replicated what they had seen, overlaying new Cahokian principles and cultural practices onto their local traditions. Thus, Mississippianization may have been driven more by the movement of ideas than by migration of Cahokians—objects may have served as agents of change along with (or possibly more so than) the people that produced them or introduced them in the Eveland-phase CIRV. Regardless, the arrival
of Cahokian groups (small or large), objects, and ideas resulted in rapid changes to the lifeways of local Late Woodland groups, evidenced by many sites with both distinctively Mississippian and hybridized Mississippian/Late Woodland archaeological assemblages. But to what extent did Mississippianization impact local organizational conventions in the Eveland-phase CIRV, particularly with regard to foodways?

To assess this issue, I turn to my case study. The Lamb site is a small rural settlement in Schuyler County in west-central Illinois (see Figure 1). Salva
gage excavations conducted in 1990 by avoca
tional archaeologist Glenn Hanning uncovered 33 pit features in two excavation areas (Figure 2); no structures were documented. As all but two pits contained a mix of Mississippian and Late Woodland ceramics in the cultural fill, I assume that the Lamb site sherds and pits are contemporaneous in manufacture or use (i.e., in terms of site occupation), rather than representative of discrete temporal occupation sequences. The material assem
dlage (ceramics, chipped stone, and groundstone tools) indicates a wide spectrum of domestic activities, including the processing, consumption, and storage of foods, which comprise terrestrial and aquatic animals as well a variety of plant cultigens and wild plants. An abundance of cultigens, including maize, and the presence of large storage pits (discussed below) suggest that inhab-
itants cultivated and stored crops at this residential site (see also VanDerwarker et al. 2013).

Ceramics in Context

The Lamb ceramic assemblage comprises 833 sherds (6732.0 g) recovered from pit features. Following standard regional methodology (Holley 1989; Pauketat 1998:33), vessels were seriated using categorical and continuous attributes related to rim shape and lip form. Rim curvature (RC) indices and rim protrusion ratios (RPR), combined with the presence of Cahokia-style Powell Plain and Ramey Incised jars (see below), indicate an early Eveland-phase (A.D. 1100–1150) date for the Lamb site, coeval with the Stirling phase in the American Bottom (Figure 3). Indeed, box plots reveal that the Lamb vessels fall well within the range of documented rim attributes for early Stirling-phase jars from the Cahokia Tract-15A assemblage (Pauketat 1998:195-207). CIRV scholars are in general agreement that Mississippian ceramics in Eveland-phase assemblages represent local production as opposed to trade items; thin section analyses from the Eveland site and associated Dickson Mounds mortuary complex indicate that Mississippian-style vessels were manufactured from local clays (Harn 1991:142–143).

The Lamb ceramic data reveal the extent to which the assemblage appears “Mississippianized” (Figure 4). Sixty-three percent of the sherds (n = 553) are diagnostically Mississippian; they are shell-tempered, burnished, brown-to-black–exterior-slipped, Ramey Incised, or otherwise fall into categories with attributes of recognized Mississippian assemblages (see Holley 1989; Pauketat 1998). Of the remaining sherds, 35 percent (n = 313) are Late Woodland, and only a very small portion (less than one percent, n = 8) can be classified as “hybrid” (i.e., that they have attributes in overlapping categories). The Lamb assemblage consists primarily of finely crafted Cahokia-style Powell Plain and Ramey Incised jars (Figure 5), the polished and decorated surfaces of which were clearly intended for display. Lacking stylistic antecedents, their appearance in the
Eveland-phase CIRV would have stood in marked contrast to the thicker, grit-tempered, cordmarked Late Woodland vessels from the local Bauer Branch tradition (Figure 6).

The Ramey Incised vessels, embellished with cosmological symbolism related to fertility and world renewal (Emerson 1989; Pauketat and Emerson 1991), may have served as vehicles for the Lamb site residents to communicate ties to Mississippian authority and worldview (*sensu* Wobst 1977). The Ramey jars are of particular interest, in that they reveal the extent to which the

![Figure 5. Ramey Incised jar profiles.](image)
Lamb ceramics are “Mississippianized”—minute details of Cahokian ceramic traditions are emulated with these vessels. Indeed, these wares are virtually indistinguishable from contemporaneous vessels produced in the American Bottom; the potters that produced the Lamb vessels were not simply adopting the Mississippian hallmarks of shell temper and dark slips, they were emulating the rolled red-slipped lips, angled shoulders, and trailed lines of Ramey Incised jars specifically characteristic of Cahokian pots (Pauketat 1998:195; see Figure 5). However, the adoption of certain manufacturing and decorative techniques does not strictly correspond to Cahokian ways of using pots at the Lamb site.

Vessel Function and Use
The Lamb assemblage, which comprises 25 vessels, is dominated by jars and contains a paucity of servingwares (Figure 7). The assemblage appears functionally similar to a typical Bauer Branch assemblage; Green and Nolan (2000:364; Green 1976) report that the majority of formal vessels in Late Woodland Bauer Branch assemblages are jars (few to no servingwares, e.g., bowls, are present). When the Lamb ceramic data are compared with four contemporaneous American Bottom assemblages (representing a range of site types), it is evident that Lamb lacks the full suite of Mississippian serving and processing wares documented in the American Bottom during the coeval Stirling phase (Table 1). The Stirling-phase assemblages include a variety of implements used for cooking and storage (jars), processing (pans, funnels, and...
stumpware), and serving (bowls, seed jars, beakers, and bottles). The functional similarities in the Stirling-phase assemblages appear to represent relatively shared organizational conventions of foodways involving ceramics in the American Bottom and that occurred regardless of site size or site structure.

The Lamb site, in contrast, has conspicuously fewer servingwares than the corresponding American Bottom sites. Although the Lamb assemblage contains a single seed jar, beaker, and bottle, it lacks bowls entirely, as well as food processing implements such as funnels and stumpwares (see Table 1). A calculation of serving-to-utility ware ratios (the number of servingwares divided by the number of cooking, storage, and processing vessels per assemblage) provides a useful way to examine this trend (Figure 8; see also Wilson and Delaney-Rivera 2012). Indeed, serving-to-utility ware ratios are substantially higher for the American Bottom sites. The Lamb assemblage exhibits proportionally less servingwares compared to other functional vessel types, and lacks the diversity of wares present in the coeval Stirling-phase American Bottom.

Thus, the Lamb site residents do not appear to have used pottery to engage in serving practices to the degree of their Cahokian neighbors. The diversity of functionally specific serving containers used in the American Bottom during the Stirling phase is indicative of the increasing complexity of Cahokian foodways. At the Lamb site, however, foodways appear to have been embedded in local Late Woodland conventions, which involved cooking, storing, and serving in multi-purpose jars, a trend documented at Bauer Branch sites (Green 1976; Green and Nolan 2000). And while the Lamb ceramic sample is small, similar patterns of low serving-to-utility ware ratios are evident in ceramic assemblages from the Lundy site (Emerson et al. 2007) and John Chapman site (Millhouse 2012) in the Apple River Valley (see Figure 8). The Apple River Valley of northwestern Illinois witnessed a similar dynamic of contact with Cahokians, with cultural developments in the early Mississippian period also occurring in the absence of clear political hierarchies. It appears that while the Lamb site inhabitants quickly adopted Ca-
hokian stylistic trends of manufacturing pottery; they retained local Late Woodland traditions in terms of the types of functional vessel classes they manufactured, and, by extension, the ways they served and stored food. This trend is further bolstered by an examination of the ways by which foods were prepared and stored in pits.

Foodways and Features

Thirty-three pits from the two areas at the Lamb site (see Figure 2) were documented; of these, 19 had sufficient data to merit functional analysis. A number of functional analyses of pits in the Southeast have been used to infer ancient practices of food processing, cooking, and storage (Fortier et al. 1984; Holt 1996; Kelly et al. 1987; Koldehoff 2002; Stahl 1985). Determination of pit function is more problematic than determination of pit morphology, as the latter does not always determine the former (Holt 1996:63). Pit data must be used cautiously, as many taphonomic factors influence feature morphology; for example, some features may be uncharacteristically shallow due to plow shaving, skewing volume estimates and use-life assumptions based on depth (e.g., storage functions, see below). However, relative differences in pit depth and capacity, coupled with profile shapes, can lend great insight into pit function. It bears noting that pits often served as multifunctional facilities, “with complex use-lives and depositional histories” (Koldehoff 2002:43). Reuse of a pit for other purposes may mask its original function; for example, rocks may be removed from a cooking feature (e.g., earth oven) for use elsewhere (e.g., to line a storage pit), and ultimately be discarded in a refuse pit. Regardless of original function, pits often rapidly fill with erosional deposits or intentionally dumped refuse; it is unlikely that pits were dug primarily to serve as refuse pits (DeBoer 1988:4). Thus, as the Lamb pits all represent refuse disposal in their final context, I use morphometric analysis to infer possible original feature function, rather than solely as an assessment of artifact contents.

Pit Types and Functional Assignments

The Lamb site pits were placed into three types based on profile shape: basin-shaped, inslanted/flat-bottomed, and vertical-walled/flat-bottomed. Based on morphology and principles of efficient food processing and storage, the pits were classified into three functional categories of multipurpose food processing, cooking, and storage. In total, 16 pits with sufficient morphometric data were confidently assigned to one of the three functional categories. Eight basin-shaped pits were classified as multipurpose food processing features. Food processing can encompass a wide range of activities associated with preparation for immediate consumption or storage, including threshing, winnowing, milling, leaching, grinding, etc. (Hastorf 1988:125). For the purposes of this study, I consider food processing to be activities that would not otherwise be considered a form of cooking. Although cooking activities—such as parching, roasting, boiling, baking, etc.—are elements of food processing, in a technical sense, those activities, which require the use of fire or hot rocks, leave distinct archaeological signatures, and are classified in a separate category below.

Three inslanted/flat-bottomed pits, as well as one vertical-walled/flat-bottomed pit, were classified as cooking features, based primarily on the presence of heavily oxidized soil in each of the features. Evidence of in situ oxidation (Figure 9), along with an abundance of fire-cracked rock (see below), supports an interpretation that these cooking features were roasting pits or earth ovens. Whether rocks were heated by a fire built in the bottom of an oven, or heated and then placed in an oven, Lamb site residents appear to have practiced this hot-rock cooking method (rather than using formal hearths). Feature 10 in Area 1, a large, deep earth oven, may have been used for steam cooking (see Dering 1999; Thoms 2008), whereas three shallower cooking facilities (Features 3, 4, and 5 in Area 1) may have been used for parching, roasting, broiling, or open-air cooking (see Kelly 2007:73). Densities of non-chert lithics (NCL) lend support to the cooking functional assignment. As discussed earlier, artifact densities alone should not be used as an indicator of original feature function, as we cannot assume that feature contents represent primary refuse. However, a comparison of NCL by functional class, standardized by weight, reveals that features with in situ oxidation have the highest NCL density (Figure 10). The vast majority of the NCL are fire-cracked rocks (limestone and igneous rock),
consistent with what we would expect a hot-rock cooking feature to look like archaeologically (Holt 1996:65).

Four vertical-walled/flat-bottomed pits were classified as storage pits. These pits are all relatively deep (mean depth 0.64 m) and capacious (mean volume 1.41 m³); indeed, these pits fall well within the range of storage pits identified by other researchers (DeBoer 1988:4; Holt 1996:63; Koldehoff and Galloy 2006:285–286). Although depth and volume can be good indicators of the space and capacity needed to conduct a chosen activity (e.g., storage), a calculation of the ratio between orifice area and volume provides additional support for this functional argument. Storage pits should have relatively small orifice diameters to protect against animal intrusion and effects of the environment, but have the capacity to accommodate comparably large volumes, so that a large quantity of goods can be stored (Fortier 1991;
Stahl 1985; Wilson 1917:87). Indeed, the Lamb storage pits have the lowest orifice area-to-volume ratios of the three functional types (Figure 11).

**Spatial Organization of Foodways**

With functional categories of pits assigned, we can consider the spatial organization of the Lamb site activities (Figure 12). I suggest that the two excavated areas represent communal spaces for activities related to foodways, probably at the edge of a small dispersed Eveland-phase village or cluster of homesteads. Because no structures were encountered in the excavation blocks, it appears that food processing, cooking, and storage were spatially separated from habitations. The practical efforts of foodways appear to have been collaborative among residents, rather than individualized and private (i.e., restricted to within individual dwellings). This site-level organizational pattern suggests that few daytime activities took place inside; rather, cooking, eating, and other domestic routines took place outside in shared spaces.

If there was a focal point in this community, then it probably would be associated with Area 1 (see Figure 12), where cooking, processing, and storage features are arranged in a circular fashion around a large central earth oven (Feature 10 in Area 1). The massive size of that central earth oven suggests that large quantities of food would have been processed at a single time, more than...
could be consumed immediately by just one or two families. Such cooking events may have occurred for purposes of commensality or in preparation for bulk storage; such trends have been documented historically and cross-culturally (Dering 1999; Peacock 2008; Thoms 2008; Wandsnider 1997).

The Lamb site spatial pattern, including communal clusters of deep storage pits and earth ovens, is reminiscent of Late Woodland period settlements in the American Bottom (Kelly 1990b; Mehrer 1995), as well as Bauer Branch sites in the CIRV (Green and Nolan 2000). Kelly et al. (1987) document shared central pits in which foods were cooked and stored during the Late Woodland occupation of the American Bottom range site. Intrasite settlement data from six excavated Bauer Branch sites in the CIRV indicate that neighboring households used shared clusters of deep pit features as earth ovens and for storage during this time as well (Green 1987; Green and Nolan 2000:362). Eveland-phase Lamb site residents appear to have engaged in joint food preparation using the large earth ovens at the site, a continuation of a Late Woodland organizational trend. In contrast, the practice of earth-oven cooking had largely disappeared in the American Bottom by the coeval Stirring phase in the American Bottom. Kelly (1990b) documents this pattern qualitatively at the American Bottom range site; whereas communal cooking facilities were aggregated in shared public spaces during the Late Woodland period, earth ovens had largely disappeared by the early Mississippian period, and hearths were relocated inside structures. VanDerwarker et al. (2012) explore this pattern quantitatively through a comparison of feature data from several American Bottom sites, revealing a clear decrease in the number of exterior earth oven features by the early Mississippian period, also corresponding with an increase in the number of interior hearths inside domestic structures. These trends represent shifts from communal cooking in shared outdoor spaces to more private, individualized cooking involving heating foods in pots over hearths within private dwellings.

The presence of large outdoor storage pits at the Lamb site is significant as well. During the Late Woodland period in the American Bottom, pit storage facilities were located in outside shared spaces within household clusters (Mehrer 1995; Mehrer and Collins 1995). Green (1987; Green and Nolan 2000:362) describes this pattern for Bauer Branch sites in the CIRV as well. By the Stirring phase in the American Bottom, however, people had changed the ways they stored food, shifting from outdoor storage in communal clusters toward storage inside of dwellings, either in rafters or interior pits, likely indicating private, single-family storage (e.g., at the Cahokia ICT-II residential tract; see Mehrer and Collins [1995]). The size of wall-trench houses also increased in the American Bottom at this time, possibly related to accommodation of internal storage. The Lamb site, in contrast, reveals retention of exterior (presumably communal) storage pits, rather than individualized private storage within homes. Overall, the spatial organization of the Lamb site, which comprises dense clusters of pit features, including outdoor communal earth ovens and storage pits, is more similar to earlier Late Woodland sites in the CIRV than to coeval Stirring-phase Mississippian sites in the American Bottom. The spatial layout of outdoor processing, cooking, and storage facilities would have structured the Lamb inhabitants’ movements through the landscape throughout the course of day-to-day activities, as well as their broader cultural conceptions of communalism vs. privatism.

These trends are consistent with other findings that upland communities in the American Bottom retained traditional practices longer than their neighbors living in the floodplain areas directly in and around the Cahokia site (e.g., Alt 2002, 2006). In the upland Richland complex, for example, changes in pottery technology occurred as a result of influence from Cahokia, but traditional spatial relations were maintained—indeed, Alt (2006) documents the continuation of single-post house construction (as well as experimentation with hybrid post-and-trench construction [Pauketat and Alt 2005]), despite the rapid conversion to wall-trench houses at Cahokia. While upland inhabitants were aware of Cahokian styles (and were willing to experiment with some new techniques), they did not adopt, wholesale, practices that would have fundamentally altered their spatial relations (Alt 2006:226).

Discussion: From Patterns to Practice

When evaluated together, the Lamb site ceramic and pit feature data present a nuanced portrait of
local foodways in an era of Mississippian contact during the Eveland phase. We must be cautious in our interpretations, as the data come from a single settlement; regardless, the patterns presented point to the utility of rethinking the scale at which culture change can be investigated. In situations of contact, archaeologists often focus on the topics of either change or continuity, represented by the appearance of new material markers or retention of particular cultural elements in assemblages (Panich 2013:107; Silliman 2009). Following Silliman (2005), I shift my focus to consider change and continuity as part of the same process. A focus on practice, rather than the assignment of ethnicity through general categories of material culture, broadens our perspective to consider not only the presence of certain materials in an assemblage, but who was using them and how—an approach that may better reflect enculturated patterns related to individual and group identity (Silliman 2009). Whether a result of contact and interaction with Mississippian people, objects, or ideas, it appears that the Lamb site residents actively adopted stylistic and technological aspects of Mississippian pottery, likely to display connections to the expanding Mississippian frontier. The well-crafted Mississippian vessels would have been highly visible, perhaps emitting information to members of households and to visiting guests about ideas of place, origin, and cosmology (see Emerson 1989; Pauketat and Emerson 1991). The growing new Cahokian order would have had substantial impacts on local Late Woodland communities—indeed, Mississippianization, which included profound religious influences, resulted in the spread of unified artifactual traditions across the CIRV, possibly quelling Late Woodland-era hostilities between groups that had previously demarcated sharp social boundaries through differences in their material culture (Wilson 2012b:526).

However, the ready adoption of high-visibility Mississippian wares may have been more of a response to changing social, economic, or symbolic pressures than a fundamental signifier of changes in identity (see Peelo 2011:659). While objects including ceramic vessels may have been used to express affiliation with Cahokians, it is equally important to consider the behind-the-scenes contexts and daily practices that would have unconsciously structured identity formation for the Lamb site inhabitants. Styles and symbols are often actively used to express social boundaries, cosmologies, and power; however, identities are also (if not primarily) defined and inscribed through routinized quotidian and periodic action, much of which occur as part of daily household practice.

Indeed, traditional Late Woodland methods of food preparation, presentation, and consumption do not appear to have changed in tandem with the adoption of Cahokian pottery styles. The diversity of serving wares in the early Mississippian American Bottom has been linked to the negotiation of hierarchical social relations (Pauketat et al. 2002:257; Wilson 1999; see Welch and Scarry 1995) and an elaboration in the rules for cooking and serving food (Johannessen 1993). The fact that the Lamb assemblage lacks this frequency and diversity of serving wares is noteworthy; the site residents do not appear to have been pulled into complex social negotiations involving foodways (at least not to the degree of their Cahokian neighbors). With an absence of complex political hierarchies in the CIRV, foodways at the Lamb site likely were not structured in relation to competition, aggrandizement, etc. Rather, vessels likely served a multipurpose cooking/storage function in the way that earlier Late Woodland vessels did. A similar dynamic is witnessed at the Lundy and John Chapman sites in the Apple River Valley—while emulating certain high-visibility Cahokian stylistic trends, the Lamb site residents (as well as their Apple River Valley neighbors) appear to have retained many traditional, enculturated ways of organizing their everyday lives.

This consideration extends to the Lamb site pits as well. In contrast to corresponding Stirling-phase settlement data from the American Bottom, which indicate shifts toward restricted/privatized cooking and storage practices within dwellings by the early Mississippian period, the Lamb site residents retained traditional communal modes of outdoor cooking and storage. It bears noting that most, if not all, of Lamb site foodways, from producing/procuring to processing to consuming to storing, may have been communally organized to some degree. Given the presence of large earth ovens and storage pits and the paucity of formal, individualized serving vessels, the practical work of feeding the community at Lamb probably involved the collaborative work of men, women, and
children. These communal values stand in contrast to the American Bottom region, which witnessed shifts toward increasing privacy and hierarchy during the Stirling phase.

**Conclusion**

The intent of this article has been to offer a closer look at Cahokian contact in the Late Prehistoric CIRV, and to employ a postcolonial framework for evaluating identity construction. In an examination of a specific social process—in this case, Mississippianization—my goal has been to extend analysis beyond just that of the materials themselves, in a way that allows us to imagine how individuals *used* material culture and spaces in recombinant ways that (re)shaped aspects of their social identities. To this end, the Lamb site ceramic assemblage and pit feature data were examined in relation to their functional and culinary significance. This study demonstrates the utility of multiple lines of evidence to evaluate organizational changes in practice rather than solely assessing material attributes as markers of prehistoric identities. Mississippian influence was profound in the Eveland-phase CIRV, resulting in important changes in social, economic, and symbolic relations in the region—new politico-religious beliefs were embraced by local peoples (Conrad 1989, 1991; Harn 1991; Wilson 2012a), and labor and scheduling likely were reoriented with changing subsistence strategies, including intensified maize production (Bardolph 2012; VanDerwarker et al. 2013).

However, what surficially might appear to be a wholesale adoption of Mississippian identity through the appearance of certain horizon markers (i.e., Ramey Incised or Powell Plain pots) becomes a more complicated negotiation of identity and practice when other lines of evidence are considered, including the functional uses of different vessel types and the spatial organization of activities related to foodways. The juxtaposition of Mississippian and Late Woodland attributes in an archaeological assemblage can be interpreted beyond a categorization of cultural change or continuity; rather, those materials represent additions and transformations to Late Woodland practices set within social remembering. The lines of evidence I have discussed in this paper, including ceramics and feature data, highlight the relational nature of prehistoric identity construction—Lamb site residents in the Eveland-phase CIRV appear to have been negotiating an identity that responded to important changes and influences from Cahokia, while retaining elements of traditional social and economic organization. While this community expressed their material connection to a growing Mississippian frontier, earlier traditions and communal sensibilities were preserved in memory and practice.

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**References Cited**


1991 The Middle Mississippian Cultures of the Central Illinois Valley. In *Cahokia and the Hinterlands: Middle Mis-


Hegmon, Michelle, and Stephanie Kulow 2005 Painting as Agency, Style as Structure: Innovations in
Bardolph] EVALUATING CAHOKIAN CONTACT AND MISSISSIPPIAN IDENTITY POLITICS


Kelly, John E. 1990a The Emergence of Mississippian Culture in the American Bottom. In The Mississippian Emergence, edited by Bruce D. Smith, pp. 113–152. Smithsonian Institution Press, Washington, D.C.


Koldehoff, Brad, and Joseph M. Galloy 2006 Late Woodland Frontiers: Patrick Phase Settlement along the Kaskaskia Trail, Monroe County, Illinois. Transportation Archaeological Research Reports No. 23. University of Illinois, Urbana.


VanDerwarker, Amber M., Gregory D. Wilson, and Dana N. Bar dolph 2013 maize Adoption and Intensification in the Central Illinois River Valley: An Analysis of Archaeobotanical Data from the Late Woodland through Early Mississippian Periods (A.D. 400–1200). Southeastern Archaeology 32:147–168.


Wilson, Gregory D.


Wilson, Gregory D., and Colleen Delaney-Rivera

Wilson, Gregory D., and Brad Koldehoff

Wobst, Martin H.

Wright, Katherine I.

Yerkes, Richard W.

Notes

1. Artifact data as well as feature metrics are presented in detail, by feature, in a forthcoming site report.

2. The Lamb assemblage contains substantially fewer hybrid sherd than assemblages from other late eleventh and twelfth century sites in the CIRV. The Northern Mossville (A.D. 1050–1100) assemblage from the Rench site in the northern CIRV contains a variety of hybrid sherds, including grit-tempered plainware vessels with imitative Mississippian jar attributes (McConaughy et al. 1993).

3. Harn (1991:142) notes a similar pattern in the Eveland site ceramic assemblage, in that the Mississippian wares are virtually indistinguishable from Stirling-phase vessels manufactured at Cahokia.

4. Pit depth, volume, orifice diameter, and in situ evidence of burning were used primarily to assess feature function. Three pits were not classified to a functional category due to unique morphological characteristics likely resulting from taphonomic processes (e.g., modern agricultural disturbance).

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