

## UNIVERSITY OF GEORGIA RADIOCARBON DATES IV

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The following list of dates is compiled from samples prepared since publication of our last date list (R, 1974, v 16, p 131-141). The counting equipment and operating procedures are the same. Ages are quoted with a  $1\sigma$  counting error which includes statistical variation of the sample count as well as for background and standard, using AD 1950 as the reference year and 95% NBS oxalic acid for  $^{14}\text{C}$  dating as the standard. The half-life value used is 5570 years.

### ACKNOWLEDGMENTS

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### SAMPLE DESCRIPTIONS

#### GEOLOGIC SAMPLES

##### *Georgia*

#### **Okefenokee Swamp site series**

Core samples from various locations in the Okefenokee Swamp in SE Georgia.

#### **UGa-498. Sap Prairie**

**1875  $\pm$  60**

**AD 75**

Sap Prairie site (30° 37' 10" N, 82° 24' 20" W). Sandy peat at depth 175 to 186cm.

**2115  $\pm$  95**

#### **UGa-497. Sap Prairie**

**165 BC**

Sap Prairie site (30° 37' 10" N, 82° 24' 20" W). Wood at depth 193 to 196cm.

**6060  $\pm$  110**

#### **UGa-499. Gannet Lake Trail**

**4110 BC**

Gannet Lake Trail site (30° 39' 50" N, 82° 14' 10" W). Peaty sand, depth 405 to 430cm.

**6235  $\pm$  105**

#### **UGa-485. Gannet Lake Trail**

**4285 BC**

Gannet Lake Trail site (30° 39' 50" N, 82° 14' 10" W). Peaty sand at depth 379 to 386cm.

**3910  $\pm$  85**

#### **UGa-503. Chesser 3B**

**1960 BC**

Chesser 3B site (30° 42' 10" N, 82° 11' 50" W). Sandy peat at depth 191 to 201cm.

- UGa-507. Chesser 5** **4310 ± 80**  
**2360 BC**  
Chesser 5 site (30° 42' 40" N, 82° 11' 10" W). Sandy peat at depth 165 to 175cm.
- UGa-508. DJC #1** **3990 ± 70**  
**2040 BC**  
DJC #1 site (30° 43' 50" N, 82° 10' 30" W). Sandy peat at depth 170 to 180cm.
- UGa-513. Mizzel Prairie #2** **4385 ± 95**  
**2435 BC**  
Mizzel Prairie #2 site (30° 45' 40" N, 82° 10' 10" W). Peaty sand at depth 188 to 198cm.
- UGa-514. Chase Prairie** **6490 ± 80**  
**4540 BC**  
Chase Prairie site (30° 48' 20" N, 82° 14' 40" W). Sandy peat at depth 277 to 287cm.
- UGa-520. Chase Prairie 2B** **5140 ± 100**  
**3190 BC**  
Chase Prairie 2B site (30° 49' 40" N, 82° 14' 40" W). Sandy peat at depth 259 to 267cm.
- UGa-521. Territory Prairie** **6640 ± 95**  
**4690 BC**  
Territory Prairie site (30° 51' 40" N, 82° 12' 0" W). Peaty sand at depth 361 to 374cm.
- UGa-522. Trout Lake** **2130 ± 60**  
**180 BC**  
Trout Lake site (30° 57' 50" N, 82° 9' 20" W). Peat at depth 211 to 216cm.
- UGa-523. Trout Lake** **3730 ± 175**  
**1780 BC**  
Trout Lake site (30° 57' 50" N, 82° 9' 20" W). Wood at depth 218 to 226cm.
- UGa-524. Mixons Hammock** **4650 ± 110**  
**2700 BC**  
Mixons Hammock site (30° 49' 20" N, 82° 22' 50" W). Sandy, clayey peat at depth 193 to 209cm.
- UGa-538. Boat Trail** **6610 ± 90**  
**4660 BC**  
Boat Trail site (30° 50' 30" N, 82° 20' 40" W). Sandy peat at depth 165 to 173cm.
- UGa-539. Floyds Prairie** **6145 ± 80**  
**4195 BC**  
Floyds Prairie site (30° 52' 40" N, 82° 18' 0" W). Sandy peat at depth 250 to 262cm.

- UGa-540. 10 Min to Minnie's Lake** **6325 ± 140**  
**4375 BC**  
 10 Min to Minnie's Lake site (30° 51' 20" N, 82° 19' 40" W). Sandy peat at depth 287 to 295cm.
- UGa-541. Middle Fork** **5840 ± 115**  
**3890 BC**  
 Middle Fork site (30° 54' 0" N, 82° 17' 0" W). Sandy peat at depth 336 to 346cm.
- UGa-496. Dinner Pond** **2635 ± 85**  
**685 BC**  
 Dinner Pond site (30° 58' 40" N, 82° 17' 0" W). Peaty sand at depth 79 to 89cm.
- UGa-542. Dinner Pond** **2950 ± 160**  
**1000 BC**  
 Dinner Pond site (30° 58' 40" N, 82° 17' 0" W). Wood at depth 104cm.
- UGa-543. Green River Run** **2775 ± 70**  
**825 BC**  
 Green River Run site (31° 2' 39" N, 82° 17' 10" W). Sandy peat at depth 84 to 91cm.
- UGa-494. Floyd's Prairie Canoe Trail** **6585 ± 160**  
**4635 BC**  
 Floyd's Prairie Canoe Trail site (30° 51' 50" N, 82° 16' 30" W). Peaty sand at depth 310 to 315cm.
- General Comment:* all samples were taken from 7.5cm cores to determine age and rate of peat deposition in Okefenokee Swamp-Marsh system. The dates of the basal peats suggest that swamp did not start forming or accumulating on sandy subsurface until ca 6500 BP. Dates agree well with proposed swamp-marsh formation and results are further discussed in Cohen (1973). Samples coll and subm by A D Cohen, Dept Geol, Southern Illinois Univ, Carbondale.

## ARCHAEOLOGIC SAMPLES

*Alabama*

- UGa-695. Clarke County** **605 ± 60**  
**AD 1345**  
 Cypress wood sample cut from gunwale of dugout canoe from E bank, Lower Tombigbee R ca .4km SE of Peavy's Landing (31° 36' 15" N, 88° 04' 15" W). Coll by R L Grimes and J J Mason, Frankville, Alabama. Subm by N R Stowe, Dept Soc & Anthropol, Univ South Alabama, Mobile.
- UGa-564. Laddel site, Feature 26** **585 ± 60**  
**AD 1365**  
 Wood charcoal from burned roof or wall timber of Mississippian type house. Laddel site 1-Wx-1, Wilcox Co, (32° 5' N, 87° 14' 21" W)

on 2nd or 3rd terrace of Alabama R, seldom flooded. Site is in level field, plowed by draft animals for ca 60 yr. Sample is 20 to 25cm below plow zone. Excavated by J W Cottier, Field Dir, Miller's Ferry Lock and Dam Archaeol Proj. *Comment* (CTS, Jr): structure assoc with ceramics of so-called Burial Urn complex of central Alabama. This material is almost definitely post-Mississippian-climax (Moundville phase), but prior to full contact with Europeans ca AD 1700. Structure estimated to be built between AD 1500 and AD 1700. Subm and coll by C T Sheldon, Jr, Dept Soc Anthropol, West Georgia College, Carrollton.

### Jefferson County series #1

Jefferson Co site 1-Je-33, 15.5km W of Birmingham, Alabama (87° N, 33° W).

**UGa-609. Charcoal, Feature 3** **1005 ± 60**  
**AD 945**

Bell-shaped pit underlying plow zone. One charred corn cob in pit, along with clay-tempered loop handle and plain, incised, and zone punctated pottery.

**UGa-610. Charcoal, Feature 9A** **995 ± 65**  
**AD 955**

Large pit underlying plow zone.

**UGa-611. Charcoal, Feature 36** **945 ± 70**  
**AD 1005**

Large bell-shaped pit underlying plow zone. Clay-grit tempered pottery discoidal in pit.

**UGa-612. Charcoal, Feature 5** **945 ± 70**  
**AD 1005**

Small basin-shaped pit underlying plow zone. Plain clay-grit tempered pottery and acorn husks found in pit. Coll by Ned Jenkins, and subm by D L DeJarnette, as part of West Jefferson Steam Plant Salvage Proj, Univ Alabama, Moundville.

*General Comment* (DLDeJ): site is a single component terminal Woodland.

### Jefferson County series #2

Jefferson Co site 1-Je-32, 15.5km NW of Birmingham, Alabama (33° 38' N, 87° 4' W).

**UGa-633. Charcoal, Feature 30** **1050 ± 60**  
**AD 900**

Large basin shaped pit—originated at base of Plow zone. Pit fill contained 5 Wheeler check-stamped sherds.

**UGa-625. Charcoal, Feature 20** **890 ± 60**  
**AD 1060**

Sample from straight sided, flat-bottomed pit that originated at base of plow zone.

**985 ± 65**  
**AD 965**

**UGa-624. Charcoal, Feature 8**

Bell-shaped pit that originated at base of plow zone. Clay tempered loop handle found in pit fill.

**1565 ± 635**  
**AD 385**

**UGa-626. Charcoal, Feature 13**

Basin-shaped pit, containing fire hearth, originating at base of plow zone. One steatite potsherd found in pit fill. Coll by Ned Jenkins, and subm by D L DeJarnette.

**Jefferson County series #3**

Jefferson Co site 1-Je-31, 15.5km W of Birmingham, Alabama (33° 38' N, 87° 4' W).

**1360 ± 70**  
**AD 590**

**UGa-650. Wood charcoal, Feature 11**

Sample from refuse pit which originated at base of plow zone. Plain clay-grit pottery. Also in this feature was a large sherd of Autauga check-stamped, a Central Alabama type dated by Dickens at AD 920.

**(A) 3850 ± 70**  
**1900 BC**

**UGa-651. Wood charcoal, Feature 10**

**(B) 2340 ± 85**  
**390 BC**

**UGa-651R.**

Sample from refuse pit that originated at base of plow zone. Plain clay-grit pottery. Also found was sherd of Autauga Pinched, a central Alabama type dated by Dickens at AD 920. *Comment:* separate determinations on charcoal from this pit indicate mixing of components.

**1075 ± 70**  
**AD 875**

**UGa-652. Wood charcoal, Feature 12**

Sample from refuse pit originating at base of plow zone. Much mussel shell also in pit. Plain clay-grit tempered pottery; 2 large loop handles.

**890 ± 75**  
**AD 1060**

**UGa-649. Wood charcoal, Feature 4**

Sample from refuse pit that originated at base of plow zone. Plain clay-grit tempered pottery, large loop handles. Also in pit was part of shell-tempered pipe and part of clay-grit tempered pipe. Coll and subm by D L DeJarnette.

*Arkansas*

**Blanchard Springs Caverns series**

Caverns 13km NW of Mt View, Stone Co, (35° 58' N, 92° 11' W).

**965 ± 90**  
**AD 985**

**UGa-691. Charcoal**

From floor of cavern ca 180m SE of Indian skeleton.

**UGa-692. Charred wood** **1005 ± 60**  
**AD 945**  
From floor of cavern ca 30m NW of Indian skeleton.

**UGa-693. Charred wood** **1725 ± 60**  
**AD 225**  
From floor of cavern ca 140m NW of Indian skeleton.

**UGa-694. Charred wood** **1005 ± 70**  
**AD 945**  
From floor of cavern ca 140m NW of Indian skeleton.

*General Comment:* in 1955 an Indian skeleton was found by spelunkers in Blanchard Springs Caverns. In 1966 a  $^{14}\text{C}$  date of  $1080 \pm 60$  (UCLA-792B, Berger and Libby, 1967) was obtained on some partially buried cane from cavern 229m NW of skeleton. No Indian artifacts were ever reported from Blanchard Springs Caverns. Subm and comment by Daniel Wolfman, Arkansas Archaeol Survey, Arkansas Polytech College.

### *California*

#### *Sierra Nevada*

These determinations represent continuing effort to accurately bracket the ages of volcanic-ash eruptions within the Mono-Inyo Crater chain of E-central California that deposited rhyolitic ash found in surficial deposits of Sierra Nevada region. Coll in 1972 and subm by S H Wood, Cal Tech, Pasadena.

**UGa-449. Devil's Post Pile National Monument** **3375 ± 140**  
**1455 BC**

Charcoal, 2.8m deep in 3.7m sec of dark yellowish-brown loamy soil exposed in gully ca 20m W of rd to Reds Meadow, 0.3km S of Starkweather Lake (37° 39' 32" N, 119° 04' 18" W). Four volcanic ash layers occur in this sec. This dated charcoal layer immediately underlies 3rd deepest volcanic ash layer and dates maximum age.

#### **West Fork of Long Meadow Creek series**

West Fork site, Sierra Nevada (36° 58' 47" N, 119° 0' 49" W).

**UGa-450. Wood** **1210 ± 55**  
**AD 740**  
Outer wood from 0.5m diam, white fir stump *in situ* buried 0.6m beneath surface of a recently dissected meadow, 1.2h.

**UGa-451. Wood** **1175 ± 65**  
**AD 785**  
Outer wood from 0.5m diam white fir log buried 0.45m beneath meadow surface.

*General Comment:* UGa-450 and -451 bracket age of fine rhyolitic ash deposited directly on stump. Another, more recent tephra layer of fine white lapilli and ash occurs 0.25m above log, UGa-451. Age of this layer was estimated by Wood (1972) as 600 to 900 yr. These 2 tephra

layers are widespread in central and S Sierra, and are uppermost 2 layers in Devil's Post Pile sec of UGa-449, where most recent layer is coarse pumice surface deposit. Preliminary trace element "fingerpainting" of this most recent tephra layer indicates a possible source from lapillirrimmed crater partially covered by rhyolite dome S of Deadman Creek in Inyo Crater group analyzed by Jack and Carmichael (1968) and described by Huber and Rinehart (1967). The second deepest layer ca 1200 BP, correlates to Mono Crater group based on very low strontium content, and is same ash found in East Meadow and Tuolumne Meadows, Yosemite, by Wood (1972).

**UGa-604. Wood** **3320 ± 85**  
**1370 BC**  
Fir log, 0.2m diam buried 3.1m.

**UGa-605. Wood** **3770 ± 65**  
**1820 BC**  
Fir log, 0.1m diam buried 5.8m.

**UGa-602. Heartwood from Lower Cabin Meadow,** **760 ± 60**  
**Sierra Natl Forest** **AD 1190**  
Heartwood comprised of 12 growth rings 40 to 52 yr older than outermost growth ring of fir log, 0.4m diam, buried 0.3m and resting directly on rhyolitic tephra, 2cm thick.

**UGa-603. Pine log** **710 ± 60**  
**AD 1240**  
The 20-yr growth ring interval 150 to 170 yr older than outermost growth ring of pine log, 0.2m diam, buried in a volcanic mudflow, exposed on N wall of S-most explosion pit of Inyo Crater Lakes, Inyo Natl Forest, California.

**UGa-621. Wood Upper Cabin Meadow** **8960 ± 90**  
**on Laurel Creek** **7010 BC**  
Pine wood buried 3.05m in basal paleosol of Upper Cabin Meadow on Laurel Creek, Sierra Natl Forest.

#### **Boggy Meadow site series**

Kings Canyon National Park (36° 43' 30" N, 119° 30' W).

**UGa-620. Wood** **8705 ± 95**  
**6755 BC**  
Wood from stump, 0.07m diam, rooted in basal paleosol, buried 6.1m in Boggy Meadow.

**UGa-623. Charcoal** **10,185 ± 105**  
**8235 BC**  
Pieces of organic soil containing charcoal buried 6.7m in Boggy Meadow, Sugarloaf Valley.

**9855 ± 100**  
**7905 BC**

**UGa-622. Wood**

Heartwood from pine stump, 1m diam, buried 3.1m in Exchequer Meadow, Sierra Natl Forest.

**East Meadow series**

Wood and charcoal from several secs alluvial and organic fill exposed in gullies that dissected this 6.1h meadow, 2.5km E of Aspen Valley, Yosemite Natl Park, California (37° 50' N, 119° 44' 30" W). Coll 1972 and subm by S H Wood.

**9020 ± 270**  
**7070 BC**

**UGa-447. Charcoal**

Charcoal from the "O" horizon of paleosol with O, A, C profile developed upon granitic bedrock. Paleosol was buried 7.5m beneath meadow surface.

**9480 ± 90**  
**7530 BC**

**UGa-452. Wood**

Wood from pine stump, 0.3m diam, *in situ*, rooted in mucky soil extending laterally to basal paleosol of UGa-447. Sample was buried 10m beneath meadow surface.

**2830 ± 65**  
**880 BC**

**UGa-448. Wood**

Wood from root mass *in situ* of fir stump, 1m diam, truncated and buried 2.5m beneath meadow surface.

*General Comment:* dates, with I-6049 (unpub) establish chronology for 3 depositional units that comprise sub-meadow stratigraphy described by Wood (1973).

*Florida*

**Drummond Point series**

Samples from small shell midden, offshore in salt marsh at Drummond Point 8-Na-34, Amelia I, Florida (30° 32' N, 81° 28' W).

**915 ± 60**  
**AD 1035**

**UGa-512. Oyster shell**

**845 ± 140**  
**AD 1105**

**UGa-546. Charcoal**

Coll and subm by E T Hemmings, Florida State Mus, Gainesville, Florida.

*General Comment* (ETH): midden lacks evidence of typical household refuse; believed to be a specialized mollusk processing sta for a St Johns II village ca 1km S (Hemmings *et al*, 1973).

**St John's site series**

Site 8-Vo-139 is one of St John's R complex of prehistoric and pre-ceramic aboriginal habitation, S-most Volusia Co, (28° 34' N, 80° 57' W) at Brevard Co border (Rouse, 1951).



**UGa-409. Clam shell****4360 ± 75****2410 BC**

From 7.6cm streak of humus, 2.7m below surface. *Comment* (ASD, Jr): date is younger than expected, geologically.

**UGa-462. Snail shell****3955 ± 65****2005 BC**

From 0.75 to 0.9m depth at interface between Ceramic and Pre-ceramic secs. Coll by A S Dooley, Jr and C F Knoderer and subm by ASD, Jr, Brevard Comm College, Cocoa.

*South Carolina***Spanish Mount site series**

Edisto I, Charleston Co, South Carolina (32° 30' N, 80° 19' W). Site 38-Ch-62, samples are from slightly different locations at base of Spanish Mount shell mound.

**UGa-583. Charcoal****3820 ± 185****1870 BC****UGa-584. Charcoal****4170 ± 350****2220 BC**

*General Comment:* results agree well with expected date. Samples assoc with burnt shell and Early Woodland ceramics. Coll by D R Sutherland and subm by R L Stephenson, Inst Archaeol & Anthropol, Univ South Carolina, Columbia.

*Indiana***Farrand site series**

Site 12-Vi-64, Vigo Co, Indiana (39° 19' 00" N, 87° 32' 24" W). Multi-component, non-stratified village site with Late Woodland Albee complex, and Havana, Albee and Vincennes cultural debris.

**UGa-536. Charcoal, Feature 25****1205 ± 85****AD 745**

Pit, 1m diam and 0.75m deep, containing nut fragments, charcoal, bone and flint, with lens of ashes.

**UGa-537. Charcoal, Feature 39****1130 ± 115****AD 820**

Pit, 1.1m diam and 0.6m deep, containing charcoal, ashes, carbonized nut fragments, bone and flint debris, some shell, and heat-cracked stone.

**UGa-656. Charcoal, Feature 61****810 ± 75****AD 1140**

Pit, 1.15m diam by 1.45m depth, with expanded lower third; pit contained remains of maize, beans, grass fiber lining, mammal, bird, fish and mussel, along with trianguloid points and shell-tempered sherds. Stench caps and ash lens present.

- 845 ± 100**
- UGa-657. Charcoal, Feature 74** **AD 1105**
- Pit, 0.9m diam and 1.4m deep, containing maize, beans, nuts, mammal and fish bones, turtle, shell-tempered sherds, mud dauber nests, and obsidian flake removed. Subm and comment by R E Pace, Indiana State Univ, Dept Anthropol, Terre Haute.
- Monroe-Daughtery site series**
- Site 12-Su-13, Sullivan Co, Indiana (39° 07' 39" N, 87° 38' 11" W). Single component, non-stratified, Late LaMotte culture village site. Samples from shallow basin-shaped cooking pit containing Embarrass Cordmarked ceramics. Site discussed by McMichael and Coffing (1970), Clouse *et al* (1971), and Brashear *et al* (1972).
- 1490 ± 105**
- UGa-533. Charcoal, Feature 7** **AD 460**
- Sample was removed by trowel from pit, 135cm diam and 145cm deep, containing Embarrass Cordmarked (83%) and Embarrass Simple Stamped (15%) ceramics.
- 1560 ± 70**
- UGa-534. Charcoal Feature 8** **AD 390**
- Sample removed by trowel from pit, 125cm diam and 140cm deep, containing Embarrass Cordmarked (92%) and Embarrass Simple Stamped (4%) ceramics.
- 2480 ± 110**
- UGa-535. Charcoal, Feature 3** **530 BC**
- Sample removed by trowel from pit, 84cm diam and 40cm deep, containing Embarrass Cordmarked ceramics.
- 1450 ± 95**
- UGa-654. Charcoal and Nuts, Feature 20** **AD 500**
- Sample from cooking pit.
- 1715 ± 85**
- UGa-655. Charcoal and nuts, Feature 50** **AD 235**
- Sample from refuse pit within large circular house pattern. Subm and comment by R E Pace.
- General Comment:* pits contained charred nut fragments, charcoal, bone, shell, flint and heated stone debris. Pit of Feature 7 had intrusion of an osage orange tree root in upper half of pit.
- 1810 ± 135**
- UGa-660. Leonard site, 12-Po-20** **AD 140**
- Charcoal from multi-component, non-stratified village site, Late Woodland and Mississippian, (39° 19' 00" N, 87° 32' 24" W). Sample removed from refuse pit at depth 0.6m. Site discussed by Henn (1971). Comm and subm by R E Pace.

*Massachusetts***Green Hill site series**

Site M-35-NW, on a Kame Terrace along Neponset R, Milton, Massachusetts (42° 13' N, 71° 8' W).

**UGa-500. Charcoal****7875 ± 230****5925 BC**

Sample from Feature 5, bowl-shaped pit.

**UGa-580. Charcoal****7950 ± 95****6000 BC**

Sample from Feature 13, bowl-shaped pit in possible lodge floor.

*General Comment* (RAP): dates indicate Early Archaic site. Coll and subm by R A Parker and R W McCurdy, South Shore Chapter, Massachusetts Archaeol Soc.

*Mississippi***UGa-680. Coleman Mound site, 22-Lo-507****685 ± 105****AD 1265**

Charcoal from undisturbed hearth in Logan Co, Mississippi (33° 20' N, 88° 20' W) found at base of final construction phase of this moderately large, flat-topped mound at depth 75 to 90cm. Sample should date Mississippian cultural period occupation of central Tombigbee Valley. No village site was found immediately contiguous with mound, but a single shell-tempered sherd was discovered in fill of final building stage of mound, above hearth from which sample was taken. Coll, subm, and comment by M D Rucker, Dept Anthropol, Mississippi State Univ, Mississippi State.

**Vaughn Mound site series**

Vaughn Mound site, 22-Lo-538, Logan Co, Mississippi (33° 25' N, 88° 25' W).

**UGa-681. Charcoal****1595 ± 70****AD 355**

Sample from excavations in Test Sq D, at depth 42cm within undisturbed fill of trash pit containing many homogenous ceramics. Sample ca 20cm below plow zone and no rootlets or other contaminating agents were apparent. Preponderant ceramic type present in pit was rather large, undecorated, "paste-tempered" jar form with slightly outflaring rims and slightly constricted necks. One large sherd from rim of tecomate (or incurvate rim form) bears incised decorations much like those found on Marksville Incised, var Yokena, described and illustrated by Greengo from Yazoo Basin. A late Marksville or early Baytown date is expected.

**UGa-682. Charcoal****1285 ± 90****AD 665**

Sample from Test Pit D within fill of same trash pit as UGa-681, but at depth 52cm. Coll ca 35cm below plow zone in apparently undisturbed context. Date should be consistent with that of UGa-681. Late

Marksville or early Baytown date expected, but possibly later since Marksville-like sherd described in connection with UGa-681 contained some finely crushed shell as a tempering agent.

**UGa-688. Bone**

**5040 ± 85  
3090 BC**

Sample consists of human bone, left femur and humerus, encountered in Test Pit C at depth 137cm, and designated "Burial 3/73". This burial, with at least 2 others, was covered by a small mound of earth containing midden debris, but no artifacts were found assoc with this or any other of these burials. Adult specimen from this burial was recovered from well within an Archaic Period deposit and should date to somewhere within that period.

**UGa-689. Bone**

**5835 ± 95  
3885 BC**

Sample subm consists of human bone, left femur and humerus, adult specimen, from burial excavated in Test Pit B at depth 160cm and designated "Burial 6/73". This was only burial recovered from Test Pit B, but was also covered by a small earthen mound containing some midden debris. No mortuary accompaniments were present. Like UGa-688, this burial was recovered from deep in Archaic period deposit and date should reflect this. Coll, subm, and comment by M D Rucker.

*Tennessee*

**Higgs site series**

Loudon Co site, 40-Ld-45, (35° 45' 22" N, 84° 22' 15' W). Site discussed by McCollough and Faulkner (1973).

**UGa-517. Wood charcoal, Feature 11**

**2850 ± 85  
900 BC**

Bottom (primary) fill of Feature 11, a large hemispheric cooking pit; matrix of charcoal overlaid by secondary fill comprising dark brown loam. Point of origin of feature 0.5m below present surface (base of Level III); feature excavated into yellow-brown clayey loam of Level IV; sample depth 0.7m below present surface. Feature 11 is central hearth assoc with Late Archaic timber shelter and living floor. To date Late Archaic shelter complex. Feature contains domestic sunflower and *chenopodium* sp seed.

**UGa-547. Same as UGa-517**

**2970 ± 155  
1020 BC**

**UGa-515. Wood charcoal, Feature 18**

**2355 ± 85  
405 BC**

Fill of Feature 18 (shallow basin-shaped firepit); matrix of loose dark brown sandy loam, very friable; fill also includes several large burned quartzite cobbles. Point of origin of feature 1.0m below present surface base of Level II midden. *Comment:* to date Level II midden, early phase of Early Woodland occupation of Site 40-Ld-45, and adjoining Early Woodland house at same horizon.

**UGa-548. Wood charcoal, Feature 17****1475 ± 165  
AD 475**

Fill of Feature 17 (elliptical basin-shaped firepit containing abundant charred wood, no artifacts); matrix of loose dark brown sandy loam, very friable; point of origin of feature 0.6m below present surface—top of Level II midden. *Comment:* to date Level II midden, late phase of Early Woodland occupation of Site 40-Ld-45, and furnish *terminus ante quem* for adjoining Early Woodland house at slightly lower horizon. Subm and coll by M C R McCollough, Univ Tennessee, Dept Anthropol, Knoxville, Tennessee.

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