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 1σ 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 ¹⁴C dating as the standard. The half-life value used is 5570 years.

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SAMPLE DESCRIPTIONS

GEOLOGIC SAMPLES

Georgia

Okefenokee Swamp site series

UGa-498. Sap Prairie

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

1875 ± 60

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

2115 ± 95 165 вс

UGa-497. Sap Prairie 165 BC Sap Prairie site (30° 37' 10" N, 82° 24' 20" W). Wood at depth 193 to 196cm.

6060 ± 110 4110 вс

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

6235 ± 105 4285 вс

UGa-485. Gannet Lake Trail

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

3910 ± 85 1960 вс

UGa-503. Chesser 3B

UGa-499. Gannet Lake Trail

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 вс
Chesser 5 site (30° 42′ 40″ N, 82° 11′ 10″ W). Sandy 165 to 175cm.	peat at depth
UGa-508. DJC #1	3990 ± 70
DJC #1 site (30° 43′ 50″ N, 82° 10′ 30″ W). Sandy	2040 BC
170 to 180cm.	peat at depth
UGa-513. Mizzel Prairie #2	4385 ± 95
Mizzel Prairie #2 site (30° 45′ 40″ N, 82° 10′ 10″ W).	2435 BC
depth 188 to 198cm.	Peaty sand at
UGa-514. Chase Prairie	6490 ± 80
Chase Prairie site (30° 48' 20" N, 82° 14' 40" W). S	4540 BC
depth 277 to 287cm.	Sandy peat at
UGa-520. Chase Prairie 2B	5140 ± 100
Chase Prairie 2B site (30° 49' 40" N, 82° 14' 40" W).	3190 BC
depth 259 to 267cm.	Sandy peat at
UGa-521. Territory Prairie	6640 ± 95
Territory Prairie site (30° 51′ 40″ N, 82° 12′ 0″ W).	4690 BC
depth 361 to 374cm.	Peaty sand at
UGa-522. Trout Lake	2130 ± 60
Trout Lake site (30° 57′ 50″ N, 82° 9′ 20″ W). Peat	180 BC
to 216cm.	at depth 211
UGa-523. Trout Lake	3730 ± 175
Trout Lake site (30° 57' 50" N, 82° 9' 20" W). Wood	1780 вс
to 226cm.	at depth 218
UGa-524. Mixons Hammock	4650 ± 110
Mixons Hammock site (30° 49' 20" N, 82° 22' 50" W).	2700 BC
peat at depth 193 to 209cm.	Sandy, clayey
UGa-538. Boat Trail	6610 ± 90
Boat Trail site (30° 50' 30" N, 82° 20' 40" W). Sandy	4660 вс
165 to 173cm.	peat at depth
UG2.539 Floyde Prairie	6145 ± 80

UGa-539. Floyds Prairie 4195 вс Floyds Prairie site $(30^{\circ} 52' 40'' \text{ N}, 82^{\circ} 18' 0'' \text{ W})$. Sandy peat at depth 250 to 262cm.

100

th

6325 ± 140

UGa-540. 10 Min to Minnie's Lake 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 вс

Middle Fork site (30° 54' 0" N, 82° 17' 0" W). Sandy peat at depth 336 to 346cm.

UGa-496. Dinner Pond

Dinner Pond site (30° 58' 40" N, 82° 17' 0" W). Peaty sand at depth 79 to 89cm.

UGa-542. Dinner Pond

Dinner Pond site (30° 58' 40" N, 82° 17' 0" W). Wood at depth 104cm.

		2775 ± 70
UGa-543.	Green River Run	825 вс

Green River Run site (31° 2' 39" N, 82° 17' 10" W). Sandy peat at depth 84 to 91cm.

6585 ± 160 4635 вс

UGa-494. Floyd's Prairie Canoe Trail

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

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

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)

605 ± 60 ad 1345

 585 ± 60

AD 1365

2950 ± 160 1000 BC

2635 ± 85 685 вс

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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).

		1005 ± 60
UGa-609.	Charcoal, Feature 3	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 u	nderlying plow zone.	

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

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

945 ± 70 UGa-612. Charcoal, Feature 5 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 Wood-land.

Jefferson County series #2

UGa-625.

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.

890 ± 60 ad 1060

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

Charcoal, Feature 20

UGa-624. Charcoal, Feature 8

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

UGa-626. Charcoal, Feature 13 AD 385

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

103

 985 ± 65

 1565 ± 635

AD 965

UGa-650. Wood charcoal, Feature 11 AD 590

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 checkstamped, a Central Alabama type dated by Dickens at AD 920.

UGa-651.	Wood charcoal, Feature 10	(A)	3850 ± 70 1900 вс
		(B)	2340 ± 85
UGa-651R.			390 вс

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.

Uga-652. Wood charcoal, Feature 12 1075 ± 70 AD 875

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
From floor of cavern ca 30m NW of Indian skeleton.	ad 945
UGa-693. Charred wood	$\begin{array}{r} 1725\pm60\\ \text{ad}225 \end{array}$

From floor of cavern ca 140m NW of Indian skeleton.

		1005 ± 70
UGa-694.	Charred wood	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 ¹⁴C 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.

> 3375 ± 140 1455 вс

UGa-449. Devil's Post Pile National Monument

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

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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 lapillirimmed 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 вс
Fir log, 0.2m diam buried 3.1m.	
	3770 ± 65
UGa-605. Wood	1820 вс
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 вс

Pine wood buried 3.05m in basal paleosol of Upper Cabin Meadow on Laurel Creek, Sierra Natl Forest.

Boggy Meadow site series

UGa-620. Wood

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

8705 ± 95 6755 вс

10,185 ± 105 8235 вс

Wood from stump, 0.07m diam, rooted in basal paleosol, buried 6.1m in Boggy Meadow.

UGa-623. Charcoal

Pieces of organic soil containing charcoal buried 6.7m in Boggy Meadow, Sugarloaf Valley.

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.

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.

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.

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
UGa-512.	Oyster shell	ad 1035
		845 ± 140

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 preceramic aboriginal habitation, S-most Volusia Co, (28° 34' N, 80° 57' W) at Brevard Co border (Rouse, 1951).

 9855 ± 100 7905 вс

9480 ± 90 7530 вс

 2830 ± 65

880 вс

AD 1105

 9020 ± 270 7070 вс

1	07	
1	U7	

4360 ± 75
2410 вс

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

UGa-462. Snail shell

UGa-409. Clam shell

3955 ± 65 2005 вс

From 0.75 to 0.9m depth at interface between Ceramic and Preceramic 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 вс
				4170 ± 350
UGa-584.	Charcoal			2220 вс
1.0	. 1.	11	•.1 • 1 1 • •	C 1

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 Vincinnes cultural debris.

> 1205 ± 85 AD 745

Charcoal, Feature 25 UGa-536.

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

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 heatcracked stone.

810 ± 75 AD 1140

UGa-656. Charcoal, Feature 61

UGa-537. Charcoal, Feature 39

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 1105

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 AD 460

UGa-533. Charcoal, Feature 7

UGa-535.

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 ± 110 530 вс

Sample removed by trowel from pit, 84cm diam and 40cm deep, containing Embarrass Cordmarked ceramics.

Charcoal, Feature 3

						1450 ± 95
UGa-654.	Charcoal	and	Nuts,	Feature	20	ad 500
Sample from	n cooking p	it.				

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.

UGa-660. Leonard site, 12-Po-20

1810 ± 135 Ad 140

Charcoal from multi-component, non-stratified village site, Late Woodland and Mississippian, $(39^{\circ} 19' 00'' \text{ N}, 87^{\circ} 32' 24'' \text{ W})$. 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

UGa-580.

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

,		,	7875 ± 230
UGa-500.	Charcoal		5925 вс

Sample from Feature 5, bowl-shaped pit.

UGa-680. Coleman Mound site, 22-Lo-507

Charcoal

7950 ± 95 6000 вс

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

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

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

$\begin{array}{r} 1285 \pm 90 \\ \text{ad} \, 665 \end{array}$

 1595 ± 70

AD 355

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

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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 вс

5835 ± 95 3885 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

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).

2850 ± 85 900 вс

UGa-517. Wood charcoal, Feature 11

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 вс
UGa-515.	Wood charcoal, Feature 18	2355 ± 85 405 вс

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.

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 1475 ± 165

UGa-548. Wood charcoal, Feature 17 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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