

**Texas A & M University, Department of
Oceanography and Meteorology**

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\delta C^{14}, \text{‰}$	A.D./B.C. date
TAM-1 ¹	135:190	10,820 ± 190			8870 B.C.
-2 ²	135:190	5925 ± 275			3975 B.C.
-3 ³	135:190	4815 ± 250			2865 B.C.
-4	135:191	1500 ± 500			A.D. 450
-5	135:191	17,710 ± 500			15,760 B.C.
-6	135:191	10,220 ± 300			8270 B.C.
-7	135:191	13,320 ± 200			11,370 B.C.
-8	135:191	Modern			
-9	135:191	5200 ± 170			3250 B.C.
-10	135:192	3570 ± 200			1620 B.C.
-11	135:192	3925 ± 150			1975 B.C.
-12	135:192	3470 ± 1000			1520 B.C.
-13	135:192	3150 ± 380			1200 B.C.
-14	135:192	1385 ± 200			A.D. 565
-15	135:193	1855 ± 160	500 ± 160 b ⁴		A.D. 1450
-33	135:192	10,930 ± 170			8980 B.C.

¹ Same measurement reported also as Tx-1 (not a cross-check). Cross-check is W-723.

² Same measurement reported also as Tx-2 (not a cross-check). Cross-check is W-859.

³ Cross-check: W-823.

⁴ Calculated by subtracting apparent age of modern seal, TAM-14.

Texas Bio-Nuclear (Kaman Instruments Co.)¹

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\delta C^{14}, \text{‰}$	A.D./B.C. date
TBN-304-2	106:57	6282 ± 229			4332 B.C.
-306-3	106:58	2191 ± 264			241 B.C.
-307-1	106:57	17,756 ± 358			15,806 B.C.
-307-2	106:57	18,612 ± 347			16,662 B.C.
-310-1	106:59	4016 ± 118			2066 B.C.
-310-2	106:59	3414 ± 118			1464 B.C.
-310-3	106:59	4155 ± 153			2205 B.C.
-311	106:59	4952 ± 304			3002 B.C.
-313-1	106:60	1170 ± 70			A.D. 780
-313-2	106:60	1350 ± 70			A.D. 600
-313-3	106:60	1340 ± 60			A.D. 610
-315-1	106:60	1423 ± 136			A.D. 527
-315-2	106:60	503 ± 70			A.D. 1447
-319	106:58	7340 ± 140			5390 B.C.
-320-2	106:61	985 ± 50			A.D. 965
-322	106:58	4650 ± 70			2700 B.C.

¹ The laboratory is now closed; dates are reprinted as published in ref. 106, without further scrutiny. Standard was 0.95 x NBS oxalic acid.

Tata Institute of Fundamental Research

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\delta C^{14}, \text{‰}$	A.D./B.C. date
TF-10	116:279	2580 ± 100			630 B.C.
-13	116:279	3690 ± 125			1740 B.C.
-14	173:292	3860 ± 340			1910 B.C.
-15	116:279	3390 ± 105			1440 B.C.
-18	116:276	190 ± 90			A.D. 1760
-19	116:277	3650 ± 135			1700 B.C.
-22	116:277	3845 ± 110			1895 B.C.

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\delta C^{14}, \text{‰}$	A.D./B.C. date
-23	116:277	3705 ± 105			1755 B.C.
-25	116:280	3930 ± 110			1980 B.C.
-26	116:277	3830 ± 120			1880 B.C.
-27	116:277	3840 ± 110			1890 B.C.
-29	116:277	3740 ± 110			1790 B.C.
-30	140:231	1535 ± 95			A.D. 415
-31	116:276	3130 ± 105			1180 B.C.
-32	116:276	3400 ± 105			1450 B.C.
-34	116:276	3570 ± 135			1620 B.C.
-37	116:276	3165 ± 110			1215 B.C.
-38	116:278	1755 ± 105			A.D. 195
-39	116:278	1860 ± 100			A.D. 90
-40	116:278	3110 ± 110			1160 B.C.
-41	116:278	1675 ± 96			A.D. 275
-42	116:280	3035 ± 115			1085 B.C.
-43	116:279	2905 ± 100			955 B.C.
-45	116:281	2150 ± 100			200 B.C.
-46	116:280	2150 ± 100			200 B.C.
-47	116:279	4380 ± 115			2430 B.C.
-48 ¹	116:279	4290 ± 120			2340 B.C.
-51	140:227	1060 ± 95			A.D. 890
-55	116:280	3930 ± 115			1980 B.C.
-56 ²	116:281	3990 ± 110			2040 B.C.
-57	116:281	>39,000			
-58	116:281	7255 ± 145			5305 B.C.
-59	116:280	3380 ± 105			1430 B.C.
-61	140:232	1230 ± 105			A.D. 720
-62	140:231	935 ± 70			A.D. 1015
-63b	140:232	1750 ± 100			A.D. 200
-70	140:226	775 ± 95			A.D. 1175
-72	140:231	1525 ± 95			A.D. 425
-73	140:231	1495 ± 105			A.D. 455
-74	140:232	1900 ± 95			A.D. 50
-75	140:231	3600 ± 110			1650 B.C.
-77	140:231	330 ± 100			A.D. 1620
-80, 82	140:227	1940 ± 110			A.D. 10
-81	140:228	2015 ± 95			65 B.C.
-83	140:228	2220 ± 110			270 B.C.
-85	140:228	2385 ± 125			435 B.C.
-88	140:228	2225 ± 110			275 B.C.
-90	140:228	2270 ± 110			320 B.C.
-91	140:228	2450 ± 120			500 B.C.
-93	140:230	1655 ± 105			A.D. 295
-94	140:230	1945 ± 90			A.D. 5
-95	140:230	1840 ± 115			A.D. 110
-96	140:230	2005 ± 95			55 B.C.
-97	140:230	1640 ± 105			A.D. 310
-98	140:230	1470 ± 90			A.D. 480
-100	140:230	2160 ± 95			210 B.C.
-103	173:293	2295 ± 105			345 B.C.
-104	173:293	2150 ± 105			200 B.C.
-105	173:294	2220 ± 110			270 B.C.
-109	140:229	30 ± 90			A.D. 1920
-112	140:228	2260 ± 95			310 B.C.
-123	173:292	4055 ± 110			2105 B.C.
-127	173:292	3935 ± 110			1985 B.C.
-128	173:292	4205 ± 115			2255 B.C.
-133	173:294	3740 ± 110			1790 B.C.
-135	173:294	3405 ± 125			1455 B.C.
-136	173:294	3915 ± 130			1965 B.C.
-139	140:229	3775 ± 100			1825 B.C.
-145	140:229	3895 ± 100			1945 B.C.
-147	140:229	3865 ± 100			1915 B.C.

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-150	140:229	3740 ± 100			1790 B.C.
-151	140:229	3800 ± 100			1850 B.C.
-154	173:293	3665 ± 110			1715 B.C.
-157	173:293	4120 ± 110			2170 B.C.
-160	173:293	4060 ± 100			2110 B.C.
-161	173:293	3930 ± 100			1980 B.C.
-162	173:293	3940 ± 100			1990 B.C.
-163	173:293	3910 ± 100			1960 B.C.
-165	173:293	3800 ± 100			1850 B.C.
-167	173:295	3890 ± 110			1940 B.C.
-168	173:295	3875 ± 110			1925 B.C.
-173	140:227	310 ± 90			A.D. 1640
-176	173:292	2000 ± 100			50 B.C.
-177	173:292	1820 ± 100			A.D. 130
-183	173:292	200 ± 95			A.D. 1750
-191	173:291	2890 ± 105			940 B.C.
-199	173:294	3590 ± 100			1640 B.C.
-200	173:294	3810 ± 110			1860 B.C.

¹ B-471.² C-1, A-219, LJ 172, LJ 175, SL 8, UCLA-751; we could not determine whether sample was sycamore or acacia.

University of Texas, Radiocarbon Dating Laboratory

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\delta C^{14}, \text{‰}$	A.D./B.C. date
Tx-1 ¹	80:45	10,820 ± 190	d ¹⁷		
-2 ²	80:45	5925 ± 275	d ¹⁷		
-3 ³	80:45	5535 ± 175	d ¹⁷		
-4	80:45	1144 ± 165	See Tx-57	d ¹⁷	
-5	80:47	1045 ± 55	d ¹⁷		
-6	80:47	1120 ± 60	d ¹⁷		
-7	80:49	2355 ± 185	See Tx-75	d ¹⁷	
-8	80:49	1140 ± 90	d ¹⁷		
-10	80:49	1410 ± 120	d ¹⁷		
-12	80:47	1765 ± 145	d ¹⁷		
-13	80:47	6695 ± 360	d ¹⁷		
-14	80:49	4505 ± 300	d ¹⁷		
-15	80:50	4170 ± 200	d ¹⁷		
-16	80:50	5405 ± 300	d ¹⁷		
-17	80:48	10,025 ± 185	d ¹⁷		
-18	80:48	9110 ± 155	d ¹⁷		
-19	80:48	10,065 ± 185	d ¹⁷		
-20	80:48	10,365 ± 110	d ¹⁷		
-21	131:145	240 ± 140	<530	c	-30 ± 17
-22	131:145	210 ± 70			-26 ± 9
-23	131:145	705 ± 115			A.D. 1245
-24	131:146	585 ± 85			A.D. 1365
-25	131:146	540 ± 140			-65 ± 15
-26	131:146	705 ± 95			A.D. 1410
-27	131:146	1180 ± 210			-84 ± 11
-28	131:146	1165 ± 120			A.D. 1245
-29	131:149	155 ± 90	155 ± 75	c	-137 ± 22
-30	131:149	1970 ± 150			-135 ± 13
-31	131:143	>31,500			A.D. 770
-32	174:300	8340 ± 180			A.D. 785
-33	131:144	3100 ± 260			-19 ± 9
-34	131:144	4950 ± 160			A.D. 1795
-35	131:144	5660 ± 220			-218 ± 16
					20 B.C.
					-988 ± 7
					-646 ± 23
					6390 B.C.
					-321 ± 22
					1150 B.C.
					-462 ± 10
					3000 B.C.
					-505 ± 14
					3710 B.C.