

*Radiocarbon Measurements:*

-29	179:406	2210 ± 160	260 B.C.
-30	179:403	740 ± 90	A.D. 1260
-31a	179:402	640 ± 90	A.D. 1310
-31b	179:402	850 ± 100	A.D. 1100
-32	179:402	720 ± 100	A.D. 1230
-33	179:400	760 ± 100	A.D. 1190
-34a	179:401	370 ± 100	A.D. 1580
-34b <sup>3</sup>	179:401	500 ± 80	A.D. 1400
-36	179:402	660 ± 100	A.D. 1290
-37	179:405	1590 ± 80	A.D. 360
-38	179:407	2720 ± 90	870 B.C.
-39	179:402	980 ± 80	A.D. 970
-40	179:403	370 ± 60	A.D. 1580
-41	179:403	3750 ± 100	1800 B.C.
-42	179:403	760 ± 90	A.D. 1190
-43	179:403	560 ± 80	A.D. 1390
-44	179:404	730 ± 80	A.D. 1220
-46	179:404	1050 ± 60	A.D. 900
-48	179:407	12,800 ± 220	10,850 B.C.
-49	179:404	1070 ± 80	A.D. 880

<sup>1</sup> M-507.<sup>2</sup> M-468.<sup>3</sup> Considered more reliable than date of 34a.**Yale University Radiocarbon Laboratory<sup>1</sup>**

<i>Laboratory number</i>	<i>Published reference</i>	<i>Original date or other value<sup>20</sup></i>	<i>Corrected date or other value</i>	$\delta C^{14}, \text{‰}$	<i>A.D./B.C. date</i>
Y-4	3:955	1540 ± 130			
-5	3:955	Modern			
-6	3:955	1520 ± 140			
-7	3:955	760 ± 130			
-8	3:955	4040 ± 150			
-9	3:955	4680 ± 160			
-10	3:955	7050 ± 240			
-11	3:957	2830 ± 130			
-13	3:957	Modern <sup>a</sup>	see Y-11	d	
-19	3:959	5870 ± 100			
-20	1:287	5.44 ± 0.11 cpm <sup>a</sup>		-90 ± 20	a
-21	1:287	6.00 ± 0.10 cpm <sup>a</sup>		+3 ± 17	a
-22	1:287	6.11 ± 0.08 cpm <sup>a</sup>		+22 ± 13	a
-27	1:287	5.35 ± 0.09 cpm <sup>a</sup>		-105 ± 17	a
-29	1:287	5.99 ± 0.12 cpm <sup>a</sup>		0 ± 20	a
-30	1:287	6.20 ± 0.08 cpm <sup>a</sup>		+37 ± 13	a
-32	3:955	Modern			
-36	4:909	Modern			
-37	3:955	Modern			
-38	3:959	Modern			d
-40	3:959	2850 ± 120			d
-41	3:959	6250 ± 380			d
-42	3:959	2870 ± 130			
-43	3:959	2700 ± 130			
-44	3:959	2570 ± 130			
-49	4:918	>38,000			
-56	1:287	5.93 ± 0.12 cpm <sup>a</sup>		-8 ± 20	a
-63	1:287	6.03 ± 0.10 cpm <sup>a</sup>		+8 ± 17	a
-64	3:957	2560 ± 200 <sup>s</sup>	see Y-11	d	
-65	3:957	Modern <sup>a</sup>	see Y-11	d	
-72	3:960	Modern			
-85	3:960	2720 ± 130			
-86 <sup>2</sup>	3:960	4100 ± 450 <sup>a</sup>			d

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\delta C^{14}, \text{‰}$	A.D./B.C. date
-87 <sup>a</sup>	3:960	1940 ± 270 <sup>s</sup>	2100 ± 270 a		
-91	4:918	2920 ± 80			
-93	4:909	4170 ± 80			
-94 <sup>a</sup>	4:909	1610 ± 80			
-95	4:910	7680 ± 110			
-103	4:918	>44,000			
-106	4:918	>36,300			
-109	3:958	7610 ± 120			
-123	3:956	400 ± 200 <sup>s</sup>			d
-125	5:166	1750 ± 60			
-126	4:915	1320 ± 60			
-129-A <sup>b</sup>	2:5	670 <sup>s</sup>	830 ± 200 a		
-129-B	2:5	*560 <sup>s</sup>	720 ± 200 a		
-132-80	3:956	2790 ± 130			
-132-81	3:956	7000 ± 210			
-132-82	3:956	6300 ± 200			
-132-83	3:956	190 ± 50			
-132-84	3:956	1090 ± 60			
-132-85	3:956	1885 ± 120			
-132-86	3:956	Modern			
-132-100	3:956	Modern			
-133	3:956	8900 ± 320 <sup>s</sup>	10,500 ± 320 a		
-134	3:956	6130 ± 200 <sup>s</sup>	6290 ± 200 a		
-135-9	5:169	530 ± 60			
-135-14	5:169	570 ± 60			
-135-17	5:169	900 ± 65			
-139-1	4:910	12,500 ± 180			
-139-2	4:910	10,880 ± 160			
-139-3	4:910	11,350 ± 150			
-139-5	4:910	3525 ± 200			
-139-6	4:910	2790 ± 90			
-139-10	4:910	2190 ± 90			
-139-11	4:910	3630 ± 90			
-140	3:956	5850 ± 180	5260 ± 200 d		
-140bis	6:58	5260 ± 200			
-141 <sup>g</sup>	2:1	1,697 ± 0.086 cpm <sup>s</sup>	10,100 ± 700 a		-715 ± 50 a
-142-3	4:916	5490 ± 85			
-142-3'	4:916	5660 ± 90	5575 ± 65 c		
-142-4	4:916	2875 ± 70			
-142-7	4:917	5440 ± 110			
-142-8	4:916	>39,000			
-144-1	2:5	*2750 <sup>s</sup>			d
-144-2	2:5	*2400 <sup>s</sup>			d
-144-3	2:5	*4300 <sup>s</sup>			d
-144-4	2:5	3650 <sup>s</sup>	3810 ± 200 a		
-144-5	2:5	3600 <sup>s</sup>	3760 ± 200 a		
-145-1	1:287	*5.20 ± 0.14 cpm <sup>s</sup>	[CaCO <sub>3</sub> ]		mean:
-145-1	1:287	*4.87 ± 0.07 cpm <sup>s</sup>	"		-159 ± 27 a
-145-2	1:287	4.82 ± 0.08 cpm <sup>s</sup>	[organic]		mean:
-145-2	1:287	4.83 ± 0.11 cpm <sup>s</sup>	"		-194 ± 23 a
-145-3	1:287	*5.02 ± 0.10 cpm <sup>s</sup>	[CaCO <sub>3</sub> ]		-160 ± 20 a
-145-3	1:287	5.07 ± 0.07 cpm <sup>s</sup>	[organic]		-152 ± 14 a
-145-4	1:287	5.18 ± 0.16 cpm <sup>s</sup>	[organic]		mean:
-145-4	1:287	4.99 ± 0.11 cpm <sup>s</sup>	"		-148 ± 22 a
-145-5	1:287	*5.09 ± 0.11 cpm <sup>s</sup>	[CaCO <sub>3</sub> ]		mean:
-145-5	1:287	*5.02 ± 0.11 cpm <sup>s</sup>	"		-154 ± 22 a
-145-6 <sup>f</sup>	1:287	*4.60 ± 0.10 cpm <sup>7</sup>			-230 ± 20 a
-147x	3:958	11,940 ± 390 <sup>s</sup>	12,100 ± 390a		
-148-1	4:916	*>37,760			
-148-2	4:916	>37,760			
-150-1	4:916	1855 ± 85			

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-151 <sup>s</sup>	4:916	8300 ± 210			
-155	3:957	Modern <sup>s</sup>	d		
-156	5:145	4190 ± 70			
-157A	4:910	10,560 ± 200			
-157B	4:910	9280 ± 290			
-158	4:911	9540 ± 130	d		
-158-1	4:911	*7060 ± 400	d		
-158-2	4:911	10,760 ± 250			
-159	4:911	9310 ± 260	d		
-159-1	4:911	*5340 ± 200	d		
-159-2	4:911	10,320 ± 250			
-160	4:911	5690 ± 70			
-161	4:911	8760 ± 70			
-162	4:912	5940 ± 100	d		
-164	3:956	3260 ± 210 <sup>s</sup>	d		
-165	3:957	12,400 ± 420			
-166	3:957	*11,230 ± 480 <sup>s</sup>	d		
-169	3:958	5300 ± 250 <sup>s</sup>	5460 ± 250 a		
-169B <sup>p</sup>	3:958	5660 ± 100			
-170	4:916	*13,700 ± 250			
-173	2:2	*6,844 ± 0.124 cpm <sup>s</sup>	d		
-174	2:2	*5,824 ± 0.113 cpm <sup>s</sup>			-27 ± 19 a
-175	2:2	*6,024 ± 0.175 cpm <sup>s</sup>			+6 ± 29 a
-176A	2:2	*5,761 ± 0.109 cpm <sup>s</sup>			-37 ± 19 a
-177A	2:2	*5,738 ± 0.115 cpm <sup>s</sup>			-40 ± 20 a
-177B	2:2	5,836 ± 0.106 cpm <sup>s</sup>			-23 ± 18 a
-178	2:2	*5,821 ± 0.110 cpm <sup>s</sup>			-27 ± 19 a
-181	5:153	7850 ± 110			
-182	5:155	6690 ± 100			
-183-I	5:154	11,680 ± 150			
-183-II	5:154	6600 ± 90			
-183-III	5:154	4480 ± 50			
-183-IV	5:154	2240 ± 60			
-188	5:155	8905 ± 110			
-189	5:155	9380 ± 90			
-192	5:155	2720 ± 60			
-193	5:155	Modern			
-194	5:153	>41,000			
-195	5:153	>41,000			
-196	5:156	7120 ± 70			
-197	5:156	6570 ± 110			
-198	5:156	6555 ± 130			
-200	2:2	*6,294 ± 0.107 cpm <sup>s</sup>			+52 ± 17 a
-204	3:960	940 ± 110			
-205	2:2	*5,365 ± 0.096 cpm <sup>s</sup>			-102 ± 18 a
-211	3:956	250 ± 250 <sup>s</sup>	410 ± 250 a		
-215	3:956	*10,630 ± 330			
-216	3:956	*10,850 ± 330			
-222	3:957	6730 ± 200			
-223	4:914	6960 ± 90			
-224	1:287	4.97 ± 0.15 cpm <sup>s</sup>			mean:
-224	1:287	4.68 ± 0.09 cpm <sup>s</sup>			-193 ± 30 a
-227 <sup>s</sup>	3:958	11,130 ± 350			
-228	4:915	7970 ± 100			
-229-1	4:916	13,690 ± 550			
-229-2	4:916	*27,900 ± 2000			
-230	4:916	*28,240 ± 1100			
-231	3:959	5220 ± 340			
-233	3:956	*11,370 ± 360			
-237	3:958	11,690 ± 370			
-238	3:958	4880 ± 190			

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-240	4:912	12,800 ± 250			
-242 <sup>10</sup>	3:957	> 30,840			
-249	3:960	9030 ± 280			
-250	3:958	> 36,490			
-251	3:957	10,650 ± 320			
-253	3:957	10,710 ± 330			
-254	3:957	> 29,630			
-255	3:957	> 30,840			
-256	3:957	> 29,630			
-257	4:912	19,580 ± 730	d		
-258-3	4:912	> 30,000			
-259-1	4:912	> 40,000			
-260-1	3:960	2750 ± 130			
-260-2	3:960	2760 ± 130			
-261	3:959	4140 ± 150			
-267 <sup>11</sup>	3:958	21,200 ± 2170			
-268	4:914	Modern			
-269	3:959	> 29,630			
-270	3:959	> 30,840			
-271	3:959	*17,000 ± 370	d		
-271B	4:912	11,440 ± 450			
-281 <sup>12</sup>	3:958	25,890 ± 1120	d		
-282	3:957	8155 ± 410			
-283	3:959	> 25,300			
-284	3:959	> 31,840			
-285	3:957	13,550 ± 460			
-287	4:913	9500 ± 150			
-290	3:960	1580 ± 40			
-291	4:914	> 30,900			
-292	4:914	1040 ± 70			
-293A <sup>13</sup>	3:958	10,790 ± 200			
-293B <sup>14</sup>	3:958	10,550 ± 150			
-294	4:915	2800 ± 150			
-295	4:915	3570 ± 130			
-296g	4:915	3050 ± 80			
-297	4:915	1795 ± 80			
-298	4:915	715 ± 70			
-299	4:915	290 ± 70			
-300	4:915	1355 ± 80			
-301	4:909	2265 ± 80			
-302	4:909	4330 ± 80			
-303	4:909	3290 ± 55			
-304	4:909	1765 ± 50			
-305	4:909	850 ± 100			
-306	4:909	1710 ± 60			
-307	4:909	3745 ± 100			
-308	4:909	Modern			
-311A	4:910	> 38,350			
-313	5:151	5390 ± 60			
-316	4:915	2820 ± 80			
-324	5:157	*5120 ± 130			
-326	5:157	7030 ± 90			
-327	5:157	5680 ± 120			
-332	5:156	*13,700 ± 130			
-333	5:156	*5180 ± 100			
-337	5:157	*3810 ± 90			
-340	4:914	9785 ± 220			
-341	4:914	7675 ± 100			
-342	4:914	7875 ± 100			
-343	4:914	6090 ± 80			
-345a	4:914	2395 ± 80			

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\delta C^{14}, \text{‰}$	A.D./B.C. date
-346	4:909	Modern			
-347	4:909	460 $\pm$ 40			
-354A	5:151	14,500 $\pm$ 210			
-354B	5:151	15,390 $\pm$ 230			
-355A	5:152	14,110 $\pm$ 420			
-355A bis <sup>15</sup>	6:59	15,400 $\pm$ 300			
-355B	5:152	13,890 $\pm$ 280			
-367	5:165	1780 $\pm$ 60			
-368	5:165	1330 $\pm$ 70			
-369	5:165	770 $\pm$ 60			
-370	5:163	1850 $\pm$ 60			
-374	5:164	2120 $\pm$ 60			
-377	5:163	1940 $\pm$ 60			
-378	5:164	1785 $\pm$ 60			
-382	5:163	1920 $\pm$ 60			
-383	5:165	1180 $\pm$ 60			
-384	5:162	2340 $\pm$ 50			
-390	5:163	2335 $\pm$ 50			
-391	5:163	2025 $\pm$ 60			
-391 <sup>16</sup>	6:50	—	see Y-691		
-392	5:165	800 $\pm$ 50			
-393	5:165	880 $\pm$ 60			
-396	5:164	1860 $\pm$ 60			
-401	5:162	2240 $\pm$ 60			
-402	5:163	2070 $\pm$ 50			
-405	5:164	1660 $\pm$ 60			
-406	5:163	1800 $\pm$ 60			
-410	4:912	Modern			
-411	4:912	10,550 $\pm$ 200			
-415	4:913	9110 $\pm$ 110			
-416	4:913	8020 $\pm$ 100			
-418	4:913	1400 $\pm$ 80			
-419	5:159	24,730 $\pm$ 2500			
-420	5:159	> 35,500			
-421	5:159	> 35,500			
-422	5:159	> 35,500			
-423	5:158	1130 $\pm$ 80		-77 $\pm$ 14	
-425	5:150	10,120 $\pm$ 120			
-425bis	6:59	9770 $\pm$ 210			
-426	5:150	11,690 $\pm$ 170			
-437	5:161	1925 $\pm$ 60			
-438	4:915	Modern			
-439	4:915	Modern			
-440	4:911	6060 $\pm$ 200			
-441a	4:911	5620 $\pm$ 200			
-442	4:911	11,220 $\pm$ 350			
-443b	4:912	4530 $\pm$ 170			
-443e	4:912	4400 $\pm$ 170			
-443h	4:912	4210 $\pm$ 80			
-444	5:158	> 39,000			
-446a	4:913	15,090 $\pm$ 160			
-446d	4:913	14,790 $\pm$ 160	see Y-505	d	
-446e	4:913	13,870 $\pm$ 210	see Y-503	d	
-446f	4:913	12,080 $\pm$ 300	see Y-504	d	
-446g	4:913	9650 $\pm$ 90			
-447d	4:914	13,290 $\pm$ 120			
-447e	4:914	10,480 $\pm$ 140			
-448	5:148	18,500 $\pm$ 420			
-449	5:148	23,000 $\pm$ 850			
-450	5:148	15,560 $\pm$ 230			
-451	4:913	32,000 $\pm$ 2800	see Y-451 bis	d	

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-451bis	120:318	>40,000			
-452	4:913	12,330 $\pm$ 180			
-454	5:167	580 $\pm$ 50			
-455	5:167	3400 $\pm$ 120			
-456	5:168	2450 $\pm$ 90			
-457	5:168	1930 $\pm$ 70			
-458d	5:167	6810 $\pm$ 110			
-459	5:161	3970 $\pm$ 80			
-460	5:147	11,410 $\pm$ 410			
-464	4:910	10,670 $\pm$ 130			
-465	5:168	960 $\pm$ 60			
-466	5:159	6870 $\pm$ 160			
-467	5:159	1905 $\pm$ 60			
-468	120:329	*37,700 $\pm$ 2000			35,750 B.C.
-471	4:911	5620 $\pm$ 50			
-472	4:911	4960 $\pm$ 50			
-473-1	5:148	>37,000			
-474	4:916	1750 $\pm$ 50			
-475	4:916	4060 $\pm$ 140			
-479	5:147	12,690 $\pm$ 220			
-482	4:912	8030 $\pm$ 140		d	
-483	4:912	7470 $\pm$ 130		d	
-484	5:161	2200 $\pm$ 60			
-485	5:161	1940 $\pm$ 70			
-486	5:161	5310 $\pm$ 90			
-488	5:149	11,280 $\pm$ 100			
-497	5:168	4150 $\pm$ 80			
-499-2	5:169	1370 $\pm$ 90			
-502	5:147	13,280 $\pm$ 420			
-503	5:146	11,590 $\pm$ 200			
-504	5:146	10,440 $\pm$ 200			
-505	5:146	12,350 $\pm$ 400			
-524	5:144	10,160 $\pm$ 160			
-525	5:144	13,450 $\pm$ 260			
-526	5:149	11,480 $\pm$ 160			
-527	6:49	3880 $\pm$ 120			
-528	6:50	2890 $\pm$ 120			
-529	5:159	>37,000			
-558	6:57	1630 $\pm$ 60			
-559	6:57	590 $\pm$ 50			
-560	6:58	240 $\pm$ 80			
-568	6:56	7530 $\pm$ 450			
-570	6:58	375 $\pm$ 100			
-571	5:150	29,310 $\pm$ 1400			
-572	5:149	30,650 $\pm$ 1640			
-573	5:160	4090 $\pm$ 50			
-574a	5:152	11,810 $\pm$ 140			
-574b	5:152	10,700 $\pm$ 130			
-575a	5:152	12,420 $\pm$ 160			
-575b	5:152	12,730 $\pm$ 210			
-576a	5:152	16,890 $\pm$ 210			
-576b	5:153	16,620 $\pm$ 320			
-577a	5:153	22,350 $\pm$ 1750			
-577b	5:153	24,690 $\pm$ 1070			
-578	120:335	4630 $\pm$ 150			2680 B.C.
-579	7:134	1640 $\pm$ 120			
-580	7:134	1615 $\pm$ 120			
-582	5:160	1030 $\pm$ 70			
-583	5:161	1430 $\pm$ 60			
-585	5:166	4090 $\pm$ 70			
-587	120:337	1240 $\pm$ 100			A.D. 710

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-588	120:337	700 ± 65			A.D. 1250
-591	6:54	23,700 ± 600			
-594	6:55	15,850 ± 360			
-595	5:150	12,760 ± 120			
-596	8:250	8760 ± 250			
-599	8:250	8780 ± 250			
-600	8:251	6690 ± 210			
-602	8:251	7540 ± 180			
-606	8:251	*550 ± 70	0 ± 70	b	---
-608	5:144	300 ± 50			
-609	5:145	5310 ± 240			
-610	5:145	4760 ± 100			
-611	6:56	Modern			
-613A	6:51	2830 ± 160			
-614A	6:51	5240 ± 140			
-616	8:256	920 ± 160			
-617	8:256	2570 ± 440			
-618	7:134	300 ± 200			
-619	7:134	5000 ± 200			
-619bis	7:134	4830 ± 320			
-620B	7:135	9720 ± 550			
-623-4	7:135	3460 ± 200		d	
-623-4	7:135	7540 ± 600		d	
-625	7:135	8640 ± 240			
-626	5:165	1160 ± 70			
-626bis	6:59	1140 ± 100			
-627	5:165	1390 ± 50			
-629	5:164	1560 ± 70			
-630	7:133	1000 ± 70			
-631	7:133	980 ± 110			
-632	7:133	1000 ± 100			
-633	6:53	>30,000			
-640	6:54	>30,000			
-641	6:55	1590 ± 140			
-644	6:57	1930 ± 80			
-646-1	6:51	9910 ± 440			
-647-1	6:51	12,370 ± 260			
-647-2	6:51	12,310 ± 320			
-647-3 <sup>17</sup>	6:51	12,350 ± 260			
-650	120:336	1220 ± 100			A.D. 730
-655-1	6:56	Modern			
-656-1	6:57	Modern			
-682	7:131	1480 ± 120			
-684	7:131	1780 ± 140			
-685	7:131	1520 ± 120			
-688	6:56	3720 ± 120			
-689	6:50	>30,000			
-691 <sup>18</sup>	6:50	11,570 ± 260			
-702	8:251	735 ± 110			
-703	8:251	2980 ± 120			
-704	8:251	7730 ± 210			
-708	8:251	6670 ± 250			
-711	8:251	8500 ± 250			
-712	8:251	8480 ± 140			
-713	8:251	8360 ± 140			
-714	8:252	6910 ± 200			
-716	8:252	8780 ± 210			
-717	8:252	6650 ± 200			
-722	6:58	670 ± 100			
-727	7:128	11,300 ± 1000			
-733	6:52	180 ± 80			

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-734	6:52	290 ± 80			
-735	6:52	405 ± 100			
-736	6:52	730 ± 120			
-737	6:52	6850 ± 200			
-738-2	6:53	3740 ± 400			
-739	6:53	3720 ± 170			
-740	6:53	3180 ± 200			
-741	6:53	3600 ± 140			
-742	7:136	$\Delta$ -102 ± 5		-86 ± 5	
-744	7:138	$\Delta$ -304 ± 9		-275 ± 9	
-745	7:138	$\Delta$ -307 ± 18		-286 ± 18	
-746	7:136	$\Delta$ -40 ± 11		-9 ± 11	
-748	7:136	$\Delta$ +184 ± 7		+189 ± 7	
-749	7:136	$\Delta$ +3 ± 7		+12 ± 7	
-750	7:136	$\Delta$ +229 ± 11		+230 ± 11	
-754A	7:137	$\Delta$ -147 ± 8		-125 ± 8	
-754B	7:137	$\Delta$ -141 ± 10		-101 ± 10	
-755	7:137	$\Delta$ -147 ± 8		-135 ± 8	
-762	7:126	10,710 ± 240			
-766	7:131	1200 ± 120			
-770	7:128	6260 ± 160			
-771	7:129	2830 ± 120			
-772	7:129	1170 ± 120			
-773	7:127	2970 ± 140			
-783	8:258	$\Delta$ -25.0 ± 7		-33.9 ± 7	
-787	8:259	$\Delta$ +223.9 ± 7		+261.2 ± 7	
-791	7:134	5630 ± 200			
-796	7:134	200 ± 100			
-799	7:135	1060 ± 100			
-805	7:134	7320 ± 200	[charcoal]		
-805	7:134	7200 ± 200	[alkali-soluble]		
-808	7:135	10,820 ± 340	[charcoal]		
-808	7:135	11,700 ± 280	[alkali-soluble]		
-809	7:132	1530 ± 280	see Y-810 d		
-810	7:132	1870 ± 200			
-811	7:132	1395 ± 90			
-814	7:132	220 ± 100			
-815	7:132	990 ± 70			
-816	7:133	840 ± 70			
-825	7:136	$\Delta$ -56 ± 7		-21 ± 7	
-840	7:127	910 ± 120			
-841	7:128	3160 ± 160			
-842	7:131	2880 ± 85			
-843	7:127	6810 ± 170			
-850	7:133	1700 ± 70			
-855	7:127	1180 ± 80			
-856	7:137	$\Delta$ -147 ± 6		-137 ± 6	
-857	7:137	$\Delta$ -135 ± 7		-118 ± 7	
-858	7:137	$\Delta$ +213 ± 4		+218 ± 4	
-861	120:328	11,140 ± 160			9190 B.C.
-862	120:328	2480 ± 80			530 B.C.
-864	120:328	4700 ± 80			2850 B.C.
-865	120:328	4090 ± 90			2140 B.C.
-867	120:328	>28,000			
-868	120:329	19,270 ± 520			17,320 B.C.
-869	120:329	300 ± 70			A.D. 1650
-870	120:329	1430 ± 80			A.D. 520
-871	7:129	2760 ± 150			
-872	7:129	1120 ± 90			
-873	7:129	1045 ± 200			
-876	8:252	8000 ± 160			



Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\delta C^{14}$ , ‰	A.D./B.C. date
-878	8:252	6950 ± 150			
-879	8:252	7460 ± 130			
-882	8:252	5590 ± 140			
-883	8:252	6840 ± 210			
-884	8:252	4960 ± 320			
-892	7:136	$\Delta +206 \pm 5$		+210 ± 5	
-893	7:136	$\Delta +40 \pm 6$		+56 ± 6	
-894	7:138	$\Delta +220 \pm 6$		+225 ± 6	
-895	7:138	$\Delta +48 \pm 8$		+43 ± 8	
-896	7:138	$\Delta +127 \pm 11$		+132 ± 11	
-897	7:138	$\Delta -9 \pm 6$		-14 ± 6	
-898	7:137	$\Delta -152 \pm 11$		-143 ± 11	
-899	7:137	$\Delta -144 \pm 6$		-131 ± 6	
-900	7:139	$\Delta +140 \pm 6$		+138 ± 6	
-901	7:139	$\Delta -56 \pm 7$		-32 ± 7	
-902	7:139	$\Delta +205 \pm 7$		+208 ± 7	
-903	7:139	$\Delta +35 \pm 9$		+57 ± 9	
-904	7:139	$\Delta -7.5 \pm 14$		-15 ± 14	
-905	7:139	$\Delta +207 \pm 6$		+213 ± 6	
-906	7:136	$\Delta +221 \pm 7$		+210 ± 7	
-907	7:138	$\Delta -174 \pm 10$		-153 ± 10	
-908	7:137	$\Delta -59 \pm 7$		-36 ± 7	
-909	7:137	$\Delta +29 \pm 8$		+70 ± 8	
-910	7:138	$\Delta -151 \pm 7$		-121 ± 7	
-911	8:254	1110 ± 75			
-912	8:254	5940 ± 95			
-913	7:130	1573 ± 77			
-914	7:130	1349 ± 75			
-915	7:130	1003 ± 76			
-916	7:130	984 ± 72			
-923	120:319	7380 ± 100			5430 B.C.
-924	120:320	730 ± 70			A.D. 1220
-927	120:334	1880 ± 100			A.D. 70
-930	8:255	3972 ± 440			
-931	8:256	3860 ± 90			
-932	8:256	450 ± 60			
-933	120:330	2330 ± 80			380 B.C.
-934 <sup>1a</sup>	8:255	5460 ± 120			
-936	120:319	11,470 ± 160 <sup>10</sup>			9520 B.C.
-938/939	120:319	10,910 ± 180			8960 B.C.
-943	120:319	9970 ± 170			8020 B.C.
-947	120:319	9740 ± 160			7790 B.C.
-950/951	120:320	14,240 ± 240			12,290 B.C.
-952/953	120:319	13,280 ± 220			11,330 B.C.
-954/955	120:319	13,150 ± 150			11,200 B.C.
-958/959	120:319	11,760 ± 180 <sup>10</sup>			9810 B.C.
-967	8:254	17,040 ± 350			
-968	8:254	10,920 ± 210			
-970	8:254	3037 ± 70			
-974	7:130	24,460 ± 1300			
-976	8:255	2220 ± 120			
-980	7:139	$\Delta +10 \pm 15$		+20 ± 15	
-981	8:255	2802 ± 70			
-984	8:257	$\delta C^{14} +93 \pm 78$		+93 ± 78	
-985	8:257	$\delta C^{14} -393 \pm 43$		-393 ± 43	
-986	8:257	$\delta C^{14} -279 \pm 27$		-279 ± 27	
-987	7:130	635 ± 140			
-988	7:130	1305 ± 140			
-989	7:131	1590 ± 140			
-990	7:131	2170 ± 85			
-1009	8:259	$\Delta +219 \pm 10$		+208 ± 10	

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\delta C^{14}, \text{‰}$	A.D./B.C. date
-1017	8:259	$\Delta -14.1 \pm 10$		$-23.5 \pm 10$	
-1018	8:259	$\Delta -2.1 \pm 10$		$-11.4 \pm 10$	
-1019	8:259	$\Delta -13.2 \pm 10$		$-21.6 \pm 10$	
-1020	8:259	$\Delta +1.5 \pm 10$		$-7.8 \pm 10$	
-1021	8:259	$\Delta +102.9 \pm 10$		$+89.4 \pm 10$	
-1022	8:259	$\Delta +136.1 \pm 10$		$+125.5 \pm 10$	
-1023	8:259	$\Delta +111.2 \pm 10$		$+102.8 \pm 10$	
-1047	120:321	$>47,000$			
-1049	8:260	$\Delta -45.2 \pm 8$		$-0.2 \pm 8$	
-1050	8:253	$12,170 \pm 260$			
-1050B	8:253	$11,445 \pm 230$			
-1051	8:253	$12,130 \pm 290$			
-1052	8:253	$17,650 \pm 350$			
-1052B	8:253	$16,885 \pm 630$			
-1053	8:253	$23,070 \pm 650$			
-1054	120:317	$1400 \pm 70$			A.D. 550
-1055	120:316	$7060 \pm 100$			5110 B.C.
-1056	120:316	$4780 \pm 130$			2830 B.C.
-1057	120:317	$3540 \pm 130$			1540 B.C.
-1058	120:317	$3450 \pm 100$			1500 B.C.
-1059	120:317	$1280 \pm 150$			A.D. 670
-1061	8:260	$\Delta -13.4 \pm 12$		$-45.5 \pm 12$	
-1062	8:260	$\Delta +28.1 \pm 10$		$+62.5 \pm 10$	
-1063	8:260	$\Delta -69.9 \pm 10$		$-48.2 \pm 10$	
-1064	8:260	$\Delta +29.5 \pm 8$		$+41.4 \pm 8$	
-1065	8:260	$\Delta +212.1 \pm 10$		$+218.4 \pm 10$	
-1067	120:339	$\Delta +176.3 \pm 10$		$+179.6 \pm 10$	
-1068	120:339	$\Delta -7.4 \pm 10$		$+47.2 \pm 10$	
-1069	8:261	$\Delta -15.9 \pm 10$		$+12.0 \pm 10$	
-1070	120:339	$\Delta -7.4 \pm 10$		$+10.4 \pm 10$	
-1072	120:339	$\Delta -144.2 \pm 10$		$-130.8 \pm 10$	
-1074	120:317	$6130 \pm 90$			4180 B.C.
-1075	120:318	$3500 \pm 130$			1550 B.C.
-1076	120:318	$3630 \pm 140$			1680 B.C.
-1077	120:318	$3560 \pm 80$			1610 B.C.
-1078	8:260	$\Delta +50.0 \pm 10$		$+63.8 \pm 10$	
-1079	8:260	$\Delta +45.6 \pm 10$		$+60.7 \pm 10$	
-1080	120:338	$\Delta +50.3 \pm 10$		$+68.2 \pm 10$	
-1081	120:338	$\Delta +205.5 \pm 10$		$+202.6 \pm 10$	
-1082	120:324	$7240 \pm 100$			5290 B.C.
-1083	120:324	$1280 \pm 80$			A.D. 670
-1084	120:324	$13,270 \pm 160$			11,320 B.C.
-1085	120:325	$5180 \pm 70$			3230 B.C.
-1086	120:325	$1530 \pm 70$			A.D. 420
-1087	120:325	$2750 \pm 70$			800 B.C.
-1088	8:261	$\Delta -10.5 \pm 10$		$-19.9 \pm 10$	
-1089	8:261	$\Delta +92.0 \pm 10$		$+120.5 \pm 10$	
-1090	120:327	$170 \pm 100$			A.D. 1780
-1091	120:327	$120 \pm 130$			A.D. 1830
-1092	120:327	$2910 \pm 130$			960 B.C.
-1093	120:327	$2980 \pm 180$			1030 B.C.
-1094	120:327	$2860 \pm 160$			910 B.C.
-1095	120:327	$2250 \pm 130$			300 B.C.
-1096	120:327	$1540 \pm 160$			A.D. 410
-1097	8:254	$11,560 \pm 360$			
-1098	8:261	$\Delta +19.3 \pm 10$		$+52.6 \pm 10$	
-1099	8:261	$\Delta -55.7 \pm 10$		$-34.5 \pm 10$	
-1101	120:339	$\Delta -307.0 \pm 10$		$-289.1 \pm 10$	
-1102	120:321	$>42,000$			
-1103	120:326	$2600 \pm 180$			650 B.C.
-1104	120:326	$6100 \pm 180$			4150 B.C.

## Radiocarbon Measurements:

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\delta C^{14}, \text{‰}$	A.D./B.C. date
-1106	120:326	28,100 ± 1000			26,150 B.C.
-1107	8:261	Δ—87.5 ± 10		—66.4 ± 10	
-1108-I	120:335	2330 ± 80			380 B.C.
-1108-II	120:335	2680 ± 80			730 B.C.
-1108-III	120:335	6190 ± 90			4240 B.C.
-1108-IV	120:335	13,920 ± 200			11,970 B.C.
-1109	120:335	3750 ± 80			1800 B.C.
-1110	120:335	3810 ± 90			1860 B.C.
-1111	120:335	690 ± 70			A.D. 1260
-1112	120:335	1320 ± 100			A.D. 630
-1113	120:336	1680 ± 80			A.D. 270
-1115	120:336	1460 ± 80			A.D. 490
-1116	120:336	1770 ± 80			A.D. 180
-1117	120:337	1020 ± 100			A.D. 930
-1118	120:337	1070 ± 100			A.D. 880
-1119	120:337	620 ± 100			A.D. 1330
-1122	120:334	1380 ± 70			A.D. 570
-1124	120:334	1390 ± 100			A.D. 560
-1125	120:334	1170 ± 120			A.D. 780
-1126	120:338	Δ—26.2 ± 7		—0.2 ± 7	
-1127	120:338	Δ—35.5 ± 7		+0.7 ± 7	
-1128	120:338	Δ—66.6 ± 8		—37.7 ± 8	
-1136	120:336	1380 ± 100			A.D. 570
-1137	120:336	1730 ± 70			A.D. 220
-1138	120:336	1710 ± 100			A.D. 240
-1139	120:322	5450 ± 70			3500 B.C.
-1140	120:322	7120 ± 110			5170 B.C.
-1141	120:322	10,230 ± 110			8280 B.C.
-1142	120:324	>34,500			
-1143	120:324	>37,000			
-1144	120:324	12,355 ± 160			10,405 B.C.
-1146	120:320	7670 ± 60			5720 B.C.
-1148	120:338	Δ—124.7 ± 8		—93.9 ± 8	
-1149	120:332	30 ± 80			A.D. 1920
-1150	120:333	2928 ± 105			978 B.C.
-1151	120:333	2715 ± 105			765 B.C.
-1154	120:333	2878 ± 105			928 B.C.
-1155	120:322	1660 ± 80			A.D. 290
-1157	120:331	2750 ± 80			800 B.C.
-1160	120:330	14,800 ± 300			12,850 B.C.
-1164	120:312	4110 ± 100			2160 B.C.
-1165	120:312	>42,000			
-1166	120:333	2764 ± 90			814 B.C.
-1167	120:333	2740 ± 70			790 B.C.
-1168	120:331	3910 ± 100			1960 B.C.
-1169	120:331	3880 ± 100			1930 B.C.
-1170	120:331	3420 ± 100			1470 B.C.
-1171	120:331	2580 ± 100			630 B.C.
-1172	120:332	1210 ± 100			A.D. 740
-1173	120:332	850 ± 100			A.D. 1100
-1174	120:332	760 ± 100			A.D. 1190
-1175	120:317	3020 ± 90			1070 B.C.
-1176	120:317	3220 ± 90			1270 B.C.
-1177	120:317	4880 ± 120			2930 B.C.
-1178	120:317	11,240 ± 160			9290 B.C.
-1179	120:318	2710 ± 90			760 B.C.
-1180	120:338	Δ = —		—133.0 ± 10	
-1181	120:338	Δ = —		—145.0 ± 10	
-1182	120:339	Δ = —		—212 ± 10	
-1183	120:339	Δ = —		—172 ± 10	
-1184	120:315	Modern			

Laboratory number	Published reference	Original date or other value	Corrected date or other value	$\delta C^{14}$ , ‰	A.D./B.C. date
-1185	120:315	Modern			
-1180	120:315	1400 ± 80			A.D. 550
-1187	120:315	710 ± 80			A.D. 1240
-1188	120:316	240 ± 80			A.D. 1710
-1189	120:316	2200 ± 100			250 B.C.
-1190	120:315	1060 ± 100			A.D. 890
-1194	120:321	>40,000			
-1196	120:323	4150 ± 120			2200 B.C.
-1197	120:323	7880 ± 120			5930 B.C.
-1198	120:323	10,840 ± 160			8890 B.C.
-1249	120:313	10,040 ± 120			8090 B.C.
-1250	120:314	5410 ± 80			3460 B.C.
-1251	120:314	9620 ± 150			7670 B.C.
-1252	120:313	9960 ± 150			8010 B.C.
-1253	120:313	10,140 ± 120			8190 B.C.
-1254	120:314	9610 ± 120			7660 B.C.
-1255	120:314	9410 ± 120			7460 B.C.
-1256	120:313	10,560 ± 150			8610 B.C.
-1257	120:313	9120 ± 160			7170 B.C.
-1258	120:314	9730 ± 160			7780 B.C.
-1259	120:313	9440 ± 150			7490 B.C.
-1260	120:314	9630 ± 150			7680 B.C.
-1261	120:339	Δ = —		−103.0 ± 10	
-1262	120:339	Δ = —		−78.0 ± 12	
-1271	120:321	>40,000			
-1272	120:321	>40,000			
-1285	120:326	3990 ± 160			2040 B.C.
-1286	120:325	2050 ± 350			100 B.C.
-1289	120:325	1040 ± 200			A.D. 910
-1312	120:314	8940 ± 120			6990 B.C.

\* Carbonate measurement, not corrected for isotopic fractionation.

<sup>1</sup> Reference standard for solid-carbon measurements was modern wood, 0-20 yr old; where sample is believed to have been free from atmospheric contamination, a Suess-effect correction of 2% has been applied (note a), otherwise the measurement is rejected (note d). For early measurements by gas counting methods (refs. 3-5), reference standard was age-corrected pre-industrial wood, not significantly different (ref. 6) from 0.95 x NBS oxalic acid.

<sup>2</sup> Cross-check K-140.

<sup>3</sup> " K-139.

<sup>4</sup> " C-110-271, D-29.

<sup>5</sup> " L-129.

<sup>6</sup> " C-536 and many others; see Y-227.

<sup>7</sup> Acetylene count by H. E. Suess, 77 ± 2 % of modern wood.

<sup>8</sup> Cross-check W-95.

<sup>9</sup> " M-290A.

<sup>10</sup> " W-189.

<sup>11</sup> " C-897.

<sup>12</sup> " C-616.

<sup>13</sup> " M-288, C-846.

<sup>14</sup> " M-288a.

<sup>15</sup> " LJ-55.

<sup>16</sup> Y-691 was published, in error, as Y-391 (ref. 6, p. 50).

<sup>17</sup> Cross-check W-710.

<sup>18</sup> Sample no. omitted; see Y-1160 for erratum.

<sup>19</sup> Rogers Lake samples Y-936 through Y-958/959 calculated from zero age as  $\delta C^{14} = -100\text{‰}$  or 770 yr.

<sup>20</sup>  $\delta C^{14}$  and Δ in this column are in ‰.