

Table 2. Ages of individual trees in three sites estimated from radiocarbon ages.

Site	DBH, cm	Scientific name	Group	Age, years	$\Delta^{14}\text{C}\%$	Libby age, years	Number of radiocarbon sample by stem
Manaus	13.3	<i>Rinorea racemosa</i> (Mart.) Kuntze	Subcanopy	195 ± 155	-26.6 ± 4.4	190 ± 40	1
	14.0	<i>Tachigali myrmecophila</i> Ducke.	Subcanopy	185 ± 145	-22.9 ± 4.3	160 ± 40	1
	18.0	<i>Rollinia insignis</i> R. E. Fr.	Subcanopy	37 ± 1	301.8 ± 5.9	Modern	1
	22.5	<i>Brosimum rubescens</i> Taub.	Canopy	192 ± 150	-25.4 ± 3.9	155 ± 35	1
	23.3	<i>Crepidospermo gontiano</i>	Subcanopy	195 ± 155	-27.6 ± 4.4	190 ± 40	1
	24.5	<i>Micrandropsis scleroxylon</i> (W. Rod),	Canopy	180 ± 30	-14.4 ± 4.4	70 ± 40	1
	25.5	<i>Bocageopsis multiflora</i> (Mart.) R.E.Fr.	Canopy	50 ± 5	-6.5 ± 4.2	Modern	1
	26.5	<i>Escheweilera odora</i> (Poepp.) Miers	Subcanopy	175 ± 135	-8.8 ± 4.5	40 ± 40	1
	28.6	<i>Scleronema micranthum</i> Ducke	Canopy	280 ± 212	-36.2 ± 4.4	250 ± 40	1
	29.3	<i>Pouteria</i> spp.	Canopy	461 ± 101	-53.1 ± 4.3	420 ± 40	1
	30.0	<i>Aspidosperma album</i> (Vahl) R. Ben.	Subcanopy	277 ± 85	-31.5 ± 4.1	205 ± 35	1
	38.5	<i>Pouteria</i> spp.	Canopy	537 ± 55	-58.0 ± 4.0	430 ± 35	1
	43.0	<i>Brosimum paraense</i> Huber	Canopy	122 ± 80	-20.4 ± 3.7	115 ± 35	1
	44.0	<i>Couepia longipendula</i> Pilger	Canopy	347 ± 145	-55.3 ± 4.0	405 ± 35	1
	45.0	<i>Corytophora alta</i> Knuth	Canopy	422 ± 80	-45.6 ± 3.5	325 ± 30	1
	49.0	<i>Nectandra rubra</i> (Mez.) CK Allen	Canopy	418	-45.2 ± 4.3	370 ± 40	7
	51.8	<i>Endopleura uchi</i> (Huber) Cuatr.	Canopy	282 ± 80	-35.9 ± 4.1	245 ± 35	1
	55.0	<i>Licaria guianensis</i> Aublet	Canopy	272 ± 80	-34.5 ± 3.5	230 ± 30	1
	55.0	<i>Pseudopiptadenia psilostachya</i> (Benth.) G.P.Lewis & M.P.Lima	Emergent	280 ± 80	-18.0 ± 4.5	100 ± 40	1
	58.0	<i>Corytophora alta</i> Knuth	Canopy	445 ± 95	-48.1 ± 3.8	345 ± 38	1
	60.0	<i>Virola</i> spp.	Canopy	175 ± 145	-29.1 ± 3.9	185 ± 35	1
70.0	<i>Peltogyne paniculata</i> Benth.	Canopy	185 ± 145	-19.7 ± 4.7	110 ± 40	1	
71.0	<i>Parkia</i> spp.	Emergent	137 ± 65	-15.2 ± 4.0	75 ± 35	1	
Rio Branco	10.3	<i>Sclerolobium</i> sp.	Canopy	46	110.2 ± 6.9	Modern	4
	11.3	<i>Manilkara paraensis</i> (Huber) Standl.	Canopy	138	-33.3 ± 4.3	220 ± 40	4
	13.0	<i>Mezilaurus itauba</i> (Meissn.) Taub. ex Mez	Canopy	735	-111.0 ± 4.9	900 ± 50	10
	15.0	<i>Tetragastris altissima</i> (Aubl) Swart	Emergent	120	-18.5 ± 4.4	100 ± 40	4
	17.0	<i>Carapa guianensis</i> Aubl.	Canopy	785	-102.1 ± 4.4	820 ± 40	7
	18.9	<i>Sclerolobium</i> sp.	Canopy	22	288.9 ± 9.6	Modern	4
	23.3	<i>Pouteria</i> sp.	Canopy	300	-17.1 ± 5.9	90 ± 50	4
	23.3	<i>Sclerolobium</i> sp.	Canopy	19	243.7 ± 4.5	Modern	6
	28.0	<i>Sclerolobium</i> sp.	Canopy	55	90.8 ± 4.4	Modern	6
	33.0	<i>Amburana cearensis</i> Fr. Aliem.	Emergent	190 ± 145	-26.0 ± 4.4	160 ± 40	1
	35.2	<i>Hirtella</i> sp.*	Canopy	264	-20.3 ± 3.6	120 ± 30	8
	35.3	<i>Guatteria</i> sp.	Canopy	41	136.53 ± 7.32	Modern	7
	35.5	<i>Pseudolmedia murure</i> Standl.	Canopy	51	13.6 ± 5.2	Modern	5
	37.5	<i>Carapa guianensis</i> Aubl.	Canopy	172	-228.2 ± 3.2	1370 ± 50	6
	42.9	<i>Pourouma</i> spp.	Pioneer	186	-25.1 ± 5.1	155 ± 45	4
	43.8	<i>Inga alba</i> (Sw.) Willd.	Emergent	40	399.0 ± 4.6	Modern	5
	45.2	<i>Bertholletia excelsa</i> H. B. K.	Emergent	840	-105.5 ± 4.2	845 ± 40	6
	48.0	<i>Pourouma</i> spp.*	Subcanopy	58	136.0 ± 5.0	Modern	7
	48.4	<i>Tetragastris altissima</i> (Aubl) Swart	Emergent	188	-26.2 ± 4.7	165 ± 40	4
	48.7	<i>Pouteria</i> sp.	Canopy	110	-16.5 ± 4.9	80 ± 40	7
	52.0	<i>Hymenaea oblongifolia</i> Hub.*	Canopy	93	-14.9 ± 4.9	70 ± 40	8
	54.2	<i>Qualea grandiflora</i> Mart. *	Emergent	1,270	-46.4 ± 4.4	330 ± 40	6
	64.0	<i>Hymenaea courbaril</i> L.	Canopy	190	-29.2 ± 3.5	190 ± 30	5
	71.1	<i>Myroxylon balsamum</i> Harms	Canopy	603	-28.6 ± 4.4	180 ± 40	7
	76.0	<i>Manilkara huberi</i> (Ducke) Chevalier	Emergent	549	-40.5 ± 4.3	340 ± 40	5
	79.0	<i>Aspidosperma macrocarpon</i> Mart.	Emergent	525	-55.8 ± 4.0	410 ± 35	6
	89.9	<i>Dipteryx odorata</i> (Aldl.) Willd	Emergent	540	-46.4 ± 3.7	330 ± 40	6
	91.0	<i>Enterolobium maximum</i> Ducke	Emergent	190	-27.7 ± 4.5	180 ± 40	4
	96.1	<i>Hymenolobium</i> spp.	Emergent	439	-50.4 ± 3.5	365 ± 30	5
	101.0	<i>Bertholletia excelsa</i> H. B. K.	Emergent	996	-130.9 ± 4.2	1080 ± 40	4
	102.5	<i>Ceiba pentandra</i> (L.) Gaertn.	Emergent	300	-23.1 ± 4.4	140 ± 40	5
	119.0	<i>Enterolobium maximum</i> Ducke	Emergent	590	-77.5 ± 3.9	600 ± 40	4
129.5	<i>Bertholletia excelsa</i> H. B. K.*	Emergent	668	-42.1 ± 3.8	295 ± 35	6	
Santarém	16.9	<i>Coussarea racemosa</i> A. Rich. *	Subcanopy	162	-21.7 ± 3.5	125 ± 30	4
	20.4	<i>Protium apiculatum</i> Swart	Canopy	280	-36.6 ± 5.2	250 ± 45	4
	25.6	<i>Inga alba</i> (Sw.) Willd.	Canopy	40	125.7 ± 5.3	Modern	4
	27.1	<i>Guatteria poeppigiana</i> Mart.	Canopy	20	252.7 ± 5.1	Modern	7
	30.6	<i>Couratari guianensis</i> Aubl.*	Canopy	190	-11.4 ± 3.6	40 ± 30	4
	35.5	<i>Tachigalia alba</i> Ducke*	Canopy	45	102.8 ± 4.0	Modern	4
	38.2	<i>Ocotea</i> sp.	Subcanopy	187	-26.3 ± 4.4	170 ± 40	4
	40.4	<i>Manilkara huberi</i> (Ducke) Chevalier	Canopy	191	-27.4 ± 4.8	160 ± 40	8
	42.0	<i>Protium apiculatum</i> Swart	Canopy	47	105.8 ± 5.3	Modern	4
	43.7	<i>Pouteria guianensis</i> Aubl.*	Canopy	390	-20.1 ± 3.4	110 ± 30	4
	50.0	<i>Sclerolobium</i> spp.*	Canopy	57	390.4 ± 3.4	Modern	4
	55.0	<i>Carapa guianensis</i> Aubl.	Canopy	180 ± 120	-20.7 ± 4.2	115 ± 30	1
	56.0	<i>Carapa guianensis</i> Aubl.	Canopy	187 ± 145	-27.2 ± 5.6	170 ± 50	1
	61.0	<i>Diplotropis purpurea</i> (Rich.) Amsh.	Canopy	207 ± 155	-31.6 ± 5.2	205 ± 45	1
	63.7	<i>Pouteria torta</i> (Mart.) Radlk.*	Canopy	48	562.1 ± 3.5	Modern	4
	67.0	<i>Clarisia racemosa</i> Ruiz & Pavon	Canopy	287 ± 85	-38.9 ± 3.9	270 ± 35	1
	68.0	<i>Manilkara huberi</i> (Ducke) Chevalier	Canopy	422 ± 100	-44.9 ± 4.6	320 ± 40	1
	68.0	<i>Astronium lecontei</i> Ducke	Canopy	187 ± 135	-24.5 ± 5.0	150 ± 45	1
	72.0	<i>Tabebuia</i> spp	Emergent	622 ± 80	-75.7 ± 5.5	580 ± 50	1
	74.0	<i>Swartzia</i> sp.	Canopy	182 ± 120	-23.1 ± 4.4	135 ± 40	1
	75.0	<i>Astronium lecontei</i> Ducke	Canopy	187 ± 145	-27.2 ± 4.9	170 ± 45	1
	75.0	<i>Cordia goeldiana</i> Huber	Canopy	182 ± 130	-23.8 ± 5.1	145 ± 45	1
	77.0	<i>Couratari guianensis</i> Aubl.	Canopy	187 ± 135	-24.6 ± 4.5	150 ± 40	1
	83.0	<i>Cedrela odorata</i> L.	Canopy	187 ± 125	-12.6 ± 4.7	50 ± 40	1
	84.0	<i>Carapa guianensis</i> Aubl.	Canopy	277 ± 75	-34.8 ± 4.5	235 ± 40	1
	86.0	<i>Pouteria bilocularis</i> (H. Winkl.)	Canopy	422 ± 80	-45.3 ± 7.6	320 ± 70	1
	87.0	<i>Apuleia leiocarpa</i>	Emergent	182 ± 120	-35.3 ± 3.2	240 ± 30	1
	90.0	<i>Vatairea paraensis</i> Ducke	Canopy	43 ± 1	14.2 ± 5.8	Modern	1
	95.0	<i>Dipteryx odorata</i> (Aldl.) Willd	Emergent	460 ± 120	-60.6 ± 7.3	450 ± 70	1
	108.0	<i>Bagassa guianensis</i> Aubl.	Canopy	177 ± 135	-19.3 ± 4.0	105 ± 35	1
	109.0	<i>Tabebuia</i> spp	Emergent	637 ± 65	-80.4 ± 3.9	625 ± 35	1
	109.0	<i>Vochysia maxima</i> Ducke	Canopy	202 ± 160	-31.0 ± 6.8	200 ± 60	1
	113.0	<i>Caryocar villosum</i> (Aubl.) Pers.	Emergent	627 ± 75	-77.6 ± 5.7	600 ± 50	1
118.0	<i>Hymenaea courbaril</i> L.	Canopy	280 ± 90	-35.2 ± 3.2	235 ± 30	1	
119.0	<i>Astronium lecontei</i> Ducke	Canopy	202 ± 160	-24.1 ± 5.7	145 ± 50	1	
120.0	<i>Couratari guianensis</i> Aubl.	Canopy	190 ± 150	-29.5 ± 3.4	190 ± 30	1	
123.0	<i>Manilkara huberi</i> (Ducke) Chevalier	Canopy	272 ± 230	-38.1 ± 5.3	260 ± 45	1	
130.0	<i>Bagassa guianensis</i> Aubl.	Canopy	437 ± 85	-48.1 ± 4.5	345 ± 40	1	
131.0	<i>Hymenaea courbaril</i> L.	Canopy	272 ± 80	-37.6 ± 3.1	255 ± 30	1	
131.0	<i>Apuleia leiocarpa</i>	Emergent	182 ± 120	-20.8 ± 4.5	120 ± 40	1	
143.0	<i>Nectandra rubra</i> (Mez.) CK Allen	Canopy	465 ± 95	-61.2 ± 4.2	455 ± 40	1	

* Sample without center (rollow), DBH = Diameter at breast height

Ages without error was determined by extrapolating growth rates determined by multiple radiocarbon measurements over the last 50 years over the lifetime of the tree. The error in the other cases represents the span between the minimum and maximum age obtained by OxCal calibration program. Here is reporting the $\Delta^{14}\text{C}\%$ and Libby age only for the oldest part of the tree.