

Trees with multiple stems—Trunk diameter measurements

Circumference cms	Diameter cms	Diameter cms ²
20	6.36	40.44
21	6.68	44.62
22	7.00	49.00
23	7.32	53.58
24	7.63	58.21
25	7.95	63.20
26	8.27	68.39
27	8.59	73.78
28	8.91	79.38
29	9.22	85.00
30	9.54	91.01
31	9.86	97.21
32	10.18	103.63
33	10.50	110.25
34	10.80	116.64
35	11.13	123.87
36	11.45	131.10
37	11.77	138.53
38	12.09	146.16
39	12.41	154.00
40	12.73	162.05
41	13.04	170.04
42	13.36	178.48
43	13.68	187.14
44	14.00	196.00
45	14.32	205.06
46	14.64	214.32
47	14.95	223.50
48	15.27	233.17
49	15.59	243.04
50	15.91	253.12
51	16.23	263.41
52	16.54	273.57
53	16.86	284.25
54	17.18	295.15
55	17.50	306.25
56	17.82	317.55
57	18.14	329.05
58	18.45	340.40
59	18.77	352.31
60	19.09	364.44
61	19.41	376.74
62	19.73	389.27
63	20.05	402.00
64	20.36	414.52

Circumference cms	Diameter cms	Diameter cms ²
65	20.86	427.66
66	21.00	441.00
67	21.32	454.54
68	21.64	468.28
69	21.96	482.24
70	22.27	495.95
71	22.59	510.30
72	22.91	524.86
73	23.23	539.63
74	23.55	554.60
75	23.87	569.77
76	24.18	584.67
77	24.50	600.25
78	24.82	616.03
79	25.14	632.01
80	25.46	648.21
81	25.77	664.09
82	26.09	680.68
83	26.41	697.48
84	26.73	714.49
85	27.05	731.70
86	27.37	749.11
87	27.68	766.18
88	28.00	784.00
89	28.32	802.02
90	28.64	820.24
91	28.96	838.68
92	29.28	857.31
93	29.59	875.56
94	29.91	894.60
95	30.23	913.85
96	30.55	933.30
97	30.87	952.95
98	31.19	972.81
99	31.50	992.25
100	31.82	1012.51
101	32.14	1032.97
102	32.46	1053.65
103	32.78	1074.52
104	33.09	1094.94
105	33.41	1116.22
106	33.73	1137.71
107	34.05	1159.40
108	34.37	1181.29
109	34.69	1203.39

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Circumference cms	Diameter cms	Diameter cms ²
110	35.00	1225.00
111	35.32	1247.50
112	35.64	1270.42
113	35.96	1293.12
114	36.28	1316.23
115	36.60	1339.56
116	36.91	1362.34
117	37.23	1386.07
118	37.55	1410.00
119	37.87	1434.13
120	38.19	1458.47
121	38.51	1483.02
122	38.82	1506.99
123	39.14	1531.93
124	39.46	1557.09
125	39.78	1582.44
126	40.10	1608.01
127	40.42	1633.77
128	40.73	1658.93
129	41.05	1685.10
130	41.37	1711.47
131	41.69	1738.05
132	42.01	1764.84
133	42.32	1790.98
134	42.64	1818.16
135	42.96	1845.56
136	43.28	1873.15
137	43.60	1900.96
138	43.92	1928.96
139	44.23	1956.29
140	44.55	1984.70
141	44.87	2013.31
142	45.19	2042.13
143	45.51	2071.16
144	45.83	2100.38
145	46.14	2128.89
146	46.46	2158.53
147	46.78	2188.36
148	47.10	2218.41
149	47.42	2248.65
150	47.74	2279.10
151	48.05	2308.80
152	48.37	2339.65
153	48.69	2370.71
154	49.01	2401.98

Circumference cms	Diameter cms	Diameter cms ²
155	49.33	2433.44
156	49.64	2464.12
157	49.96	2496.00
158	50.28	2528.07
159	50.60	2560.36
160	50.92	2592.84
161	51.24	2625.53
162	51.55	2657.40
163	51.87	2690.49
164	52.19	2723.79
165	52.51	2757.30
166	52.83	2791.00
167	53.15	2825.09
168	53.46	2857.97
169	53.78	2892.28
170	54.10	2926.81
171	54.42	2961.53
172	54.74	2996.46
173	55.06	3031.60
174	55.37	3065.83
175	55.69	3101.37
176	56.01	3137.12
177	56.33	3173.06
178	56.65	3209.22
179	56.97	3245.58
180	57.28	3280.99
181	57.60	3317.76
182	57.92	3354.72
183	58.24	3391.89
184	58.56	3429.27
185	58.87	3465.67
186	59.19	3503.45
187	59.51	3541.44
188	59.83	3579.62
189	60.15	3618.02
190	60.47	3656.62
191	60.78	3694.20
192	61.10	3733.21
193	61.42	3772.41
194	61.74	3811.82
195	62.06	3851.14
196	62.38	3891.26
197	62.69	3930.03
198	63.01	3970.26
199	63.33	4010.68

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Circumference cms	Diameter cms	Diameter cms ²
200	63.65	4051.32
201	63.97	4092.16
202	64.29	4133.20
203	64.60	4173.16
204	64.92	4214.69
205	65.24	4256.25
206	65.56	4298.11
207	65.88	4340.17
208	66.19	4381.11
209	66.51	4423.58
210	66.83	4466.24
211	67.15	4509.12
212	67.47	4552.20
213	67.79	4595.48
214	68.10	4637.61
215	68.42	4681.29
216	68.74	4725.18
217	69.06	4769.28
218	69.38	4813.58
219	69.70	4858.09
220	70.01	4901.40
221	70.33	4946.30
222	70.65	4991.47
223	70.97	5036.34
224	71.29	5082.26
225	71.61	5127.99
226	71.92	5172.48
227	72.24	5218.61
228	72.56	5264.95
229	72.88	5311.49
230	73.20	5358.24
231	73.52	5405.19
232	73.83	5450.86
233	74.15	5498.22
234	74.47	5545.78
235	74.79	5593.54
236	75.11	5641.51
237	75.42	5688.17
238	75.74	5736.54
239	76.06	5785.12
240	76.38	5833.90
241	76.70	5882.89
242	77.02	5932.08
243	77.33	5979.92
244	77.65	6029.52

Circumference cms	Diameter cms	Diameter cms ²
245	77.97	6079.32
246	78.29	6129.32
247	78.61	6179.53
248	78.93	6229.94
249	79.24	6278.97
250	79.56	6329.79
251	79.88	6380.81
252	80.20	6432.04
253	80.52	6483.47
254	80.84	6535.10
255	81.15	6585.32
256	81.47	6637.36
257	81.79	6689.60
258	82.11	6742.05
259	82.43	6794.70
260	82.74	6845.90
261	83.06	6898.96
262	83.38	6952.22
263	83.70	7005.69
264	84.02	7059.36
265	84.34	7113.23
266	84.65	7165.62
267	84.97	7219.90
268	85.29	7274.38
269	85.61	7329.07
270	85.93	7383.96
271	86.25	7439.06
272	86.56	7492.63
273	86.88	7548.13
274	87.20	7603.84
275	87.52	7659.75
276	87.82	7712.35
277	88.16	7772.18
278	88.47	7826.94
279	88.79	7883.66
280	89.11	7940.59
281	89.43	7997.72
282	89.75	8055.06
283	90.07	8112.60
284	90.38	8168.54
285	90.70	8226.49
286	91.02	8284.64
287	91.34	8342.99
288	91.66	8401.55
289	91.97	8458.48

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Circumference cms	Diameter cms	Diameter cms ²
290	92.29	8517.44
291	92.61	8576.61
292	92.93	8635.98
293	93.25	8695.56
294	93.57	8755.34
295	93.88	8813.45
296	94.20	8873.64
297	94.52	8934.03
298	94.84	8994.62
299	95.16	9055.42
300	95.48	9116.43
301	95.79	9175.72
302	96.11	9273.13
303	96.43	9298.74
304	96.75	9360.56
305	97.07	9422.58
306	97.39	9484.81
307	97.70	9545.29
308	98.02	9607.92
309	98.34	9670.75
310	98.66	9733.79
311	98.98	9797.04
312	99.29	9858.50
313	99.61	9922.15
314	99.93	9986.00
315	100.25	10050.06
316	100.57	10114.32
317	100.89	10179.80
318	101.20	10241.44
319	101.52	10306.31
320	101.84	10371.38
321	102.16	10436.66
322	102.48	10502.15
323	102.80	10567.84
324	103.11	10631.63
325	103.43	10697.76
326	103.75	10764.06
327	104.07	10828.48
328	104.39	10897.27
329	104.71	10964.18
330	105.02	11029.20
331	105.34	11096.51
332	105.66	11164.03
333	105.98	11231.76
334	106.30	11299.69

Circumference cms	Diameter cms	Diameter cms ²
335	106.61	11365.69
336	106.93	11434.02
337	107.25	11502.56
338	107.57	11571.30
339	107.89	11640.25
340	108.21	11709.40
341	108.52	11776.59
342	108.84	11846.14
343	109.16	11915.90
344	109.48	11985.87
345	109.80	12056.04
346	110.12	12126.41
347	110.43	12194.78
348	110.75	12265.56
349	111.07	12336.54
350	111.39	12407.73
351	111.71	12479.12
352	112.03	12550.72
353	112.34	12620.27
354	112.66	12692.27
355	112.98	12764.48
356	113.30	12836.89
357	113.62	12909.50
358	113.94	12982.32
359	114.25	13053.06
360	114.57	13126.28
361	114.89	13199.71
362	115.21	13273.34
363	115.53	13347.18
364	115.84	13418.90
365	116.16	13493.14
366	116.48	13567.59
367	116.80	13642.24
368	117.12	13717.09
369	117.44	13792.15
370	117.75	13865.06
371	118.07	13940.52
372	118.39	14016.19
373	118.71	14092.06
374	119.03	14168.14
375	119.35	14244.42
376	119.66	14318.51
377	119.98	14395.20
378	120.30	14472.09
379	120.62	14549.18

Trees with multiple stems—Trunk diameter measurements

Circumference cms	Diameter cms	Diameter cms ²
380	120.94	14626.48
381	121.26	14703.98
382	121.57	14779.26
383	121.89	14857.17
384	122.21	14935.28
385	122.53	15013.69
386	122.85	15092.12
387	123.16	15168.38
388	123.48	15247.31
389	123.80	15326.44
390	124.12	15405.77
391	124.44	15485.31

Circumference cms	Diameter cms	Diameter cms ²
392	124.76	15565.05
393	125.07	15642.50
394	125.39	15722.65
395	125.71	15803.00
396	126.03	15883.56
397	126.35	15964.32
398	126.67	16045.28
399	126.98	16123.92
400	127.30	16205.29
401	127.62	16286.86
402	127.94	16368.64
403	128.26	16450.62

Replacement ratios for multi-trunked trees

To assess the stem diameter at breast height (DBH) of a multi-stemmed trees, add together the square of the diameter of each of the stems, and square root the total measurement.

For example, if the tree has four stems of 10, 12, 15 and 20cms diameter:

$$\text{Diameter}^2 \text{ (cm)}^2 = 10^2 + 12^2 + 15^2 + 20^2 = 100 + 144 + 225 + 400 = 869$$

$$\text{Diameter (cm)} = \sqrt{869} = 29.5\text{cms}$$