

Estimated Weight of Root Balls

Caliper (in inches)	Ball Diameter (in inches)	Weight of tree and Rootball ^a (in pounds)	Weight of tree and Rootball ^a (in tons)
1-2	22	260	
2-2.5	24	340	
2-3	28	560	
3-3.5	32	880	
3-4	38	1100	0.55
4-4.5	42	1500	0.75
4-5	48	2000	1
5-5.5	54	2600	1.3
5-6	60	3100	1.55
6-7	68	3800	1.9

Weight will vary with soil moisture, soil type, type of plants, etc.

a -- from UT Pub 1249, "Conversion Chart for Greenhouse and Nursery Operations", UT Agr. Ext Service, Aug. 1987.

Trunk Diameter (in inches)	Ball Diameter (in inches)	Ball Depth (in inches)	Weight of tree and Rootball ^b (in pounds)	Weight of tree and Rootball ^b (in tons)
5	50	29		1.6
6	60	32		2.4
7	70	34		3.5
8	80	36		4.8
9	90	38		6.4
10	100	40		8.4
12	120	40		12.2
14	140	42		17.2
16	160	42		22.5

^bSource of above unknown, but similar to Watson & Himelick on next page

**from "Principles & Practice of Planting Trees and Shrubs by
Gary W. Watson & E.B. Himelick, published by ISA, pg 87**

Ball Diameter (in inches)	Ball Depth (in inches)	Weight of tree and Rootball (in pounds)	Weight of tree and Rootball (in tons)
10	8	34	
12	9	55	
14	11	91	
16	12	124	
18	14	193	
20	15	254	
24	16	392	
28	19	624	
32	20	867	
36	22	1216	0.61
42	25	1877	0.94
48	29		1.5
60	32		2.4
72	34		3.7
84	36		5.4
96	38		7.4
108	40		9.9
120	40		12.2

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Comm/Misc/Rootball Weights 11-06



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