

Tree Cross-sectional Area Equivalency Table									
Number of replacement trees required	Cross-sectional area based on size of replacement tree (measured in caliper inches)								
	2"	2.5"	3"	3.5"	4"	4.5"	5"	5.5"	6"
1	3.14	4.91	7.07	9.62	12.60	15.90	19.63	23.90	28.30
2	6.28	9.82	14.14	19.24	25.20	31.80	39.26	47.60	56.60
3	9.42	14.73	21.21	28.86	37.80	47.70	58.89	71.30	84.90
4	12.56	19.64	28.28	38.48	50.40	63.60	78.52	95.00	113.20
5	15.70	24.55	35.35	48.10	63.00	79.50	98.15	118.70	141.50
6	18.84	29.46	42.42	57.72	75.60	95.40	117.78	142.40	169.80
7	21.98	34.37	49.49	67.34	88.20	111.30	137.41	166.10	198.10
8	25.12	39.28	56.56	76.96	100.80	127.20	157.04	189.80	226.40
9	28.26	44.19	63.63	86.58	113.40	143.10	176.67	213.50	254.70
10	31.40	49.10	70.70	96.20	126.00	159.00	196.30	237.20	283.00
11	34.54	54.01	77.77	105.82	138.60	174.90	215.93	260.90	311.30
12	37.68	58.92	84.84	115.44	151.20	190.80	235.56	284.60	339.60
13	40.82	63.83	91.91	125.06	163.80	206.70	255.19	308.30	367.90
14	43.96	68.74	98.98	134.68	176.40	222.60	274.82	332.00	396.20
15	47.10	73.65	106.05	144.30	189.00	238.50	294.45	355.70	424.50
16	50.24	78.56	113.12	153.92	201.60	254.40	314.08	379.40	452.80
17	53.38	83.47	120.19	163.54	214.20	270.30	333.71	403.10	481.10
18	56.52	88.38	127.26	173.16	226.80	286.20	353.34	426.80	509.40
19	59.66	93.29	134.33	182.78	239.40	302.10	372.97	450.50	537.70
20	62.80	98.20	141.40	192.40	252.00	318.00	392.60	474.20	566.00
21	65.94	103.11	148.47	202.02	264.60	333.90	412.23	501.90	594.30
22	69.08	108.02	155.54	211.64	277.20	349.80	431.86	525.80	622.60
23	72.22	112.93	162.61	221.26	289.80	365.70	451.49	549.70	650.90
24	75.36	117.84	169.68	230.88	302.40	381.60	471.12	573.60	679.20
25	78.50	122.75	176.75	240.50	315.00	397.50	490.75	597.50	707.50
26	81.64	127.66	183.82	250.12	327.60	413.40	510.38	621.40	735.80
27	84.78	132.57	190.89	259.74	340.20	429.30	530.01	645.30	764.10
28	87.92	137.48	197.96	269.36	352.80	445.20	549.64	669.20	792.40
29	91.06	142.39	205.03	278.98	365.40	461.10	569.27	693.10	820.70
30	94.20	147.30	212.10	288.60	378.00	477.00	588.90	717.00	849.00

To use this chart, you first need to know how much of cross-sectional area of replacement is required for your project. Next, look in the chart for the size and number of trees that will fulfill this requirement. For example, if you need 34" of replacement, you may choose to plant eleven 2" trees or seven 2.5" trees, or five 3" trees. Any combination of tree sizes is allowable. Always round up to the next whole tree.