

# Benefits and Costs Summary of Individual Trees

Location: Springfield, Hampden, Massachusetts, United States of America

Project: Springfield Squares, Series: Parks, Year: 2018

Generated: 4/8/2019



Tree ID	Species Name	DBH (in)	Structural Value (\$)	Carbon Storage (lb)	Carbon Storage (\$)	Annual benefits									Total Annual Benefits (\$/yr)	Comments
						Gross Carbon Sequestration		Avoided Runoff		Carbon Avoided		Pollution Removal		Energy Savings		
						(lb/yr)	(\$/yr)	(ft³/yr)	(\$/yr)	(lb/yr)	(\$/yr)	(oz/yr)	(\$/yr)	(\$/yr)		
1	Callery pear	15.3	1,858.29	942.1	61.11	24.8	1.61	15.7	1.05	N/A	N/A	8.2	1.93	N/A	4.59	
2	Callery pear	15.0	1,798.67	897.7	58.23	24.1	1.56	15.2	1.02	N/A	N/A	7.9	1.87	N/A	4.45	
3	Callery pear	15.0	1,798.67	897.7	58.23	24.1	1.56	15.2	1.02	N/A	N/A	7.9	1.87	N/A	4.45	
4	Callery pear	12.0	1,267.37	521.2	33.81	17.5	1.13	10.1	0.67	N/A	N/A	5.2	1.23	N/A	3.04	
5	Callery pear	12.5	1,347.72	575.6	37.34	18.6	1.20	10.9	0.73	N/A	N/A	5.6	1.33	N/A	3.26	
6	Callery pear	15.0	1,798.67	897.7	58.23	24.1	1.56	15.2	1.02	N/A	N/A	7.9	1.87	N/A	4.45	
7	Callery pear	14.5	1,701.92	826.5	53.61	23.0	1.49	14.3	0.96	N/A	N/A	7.4	1.76	N/A	4.20	
8	Callery pear	15.5	1,898.69	972.4	63.07	25.3	1.64	16.0	1.07	N/A	N/A	8.3	1.97	N/A	4.68	
9	Red maple	11.0	1,111.63	369.8	23.99	21.2	1.38	23.0	1.54	N/A	N/A	12.0	2.82	N/A	5.74	
10	Red maple	10.8	1,081.30	442.7	28.71	14.4	0.94	15.2	1.01	N/A	N/A	7.9	1.86	N/A	3.81	
11	Red maple	9.7	924.46	343.3	22.27	12.5	0.81	13.0	0.87	N/A	N/A	6.7	1.59	N/A	3.26	
12	Red maple	11.6	1,353.01	524.2	34.00	17.8	1.16	19.1	1.27	N/A	N/A	9.9	2.34	N/A	4.77	
13	Callery pear	11.5	1,190.30	470.0	30.48	16.5	1.07	9.2	0.62	N/A	N/A	4.8	1.13	N/A	2.82	
14	Callery pear	12.0	1,267.37	521.2	33.81	17.5	1.13	10.1	0.67	N/A	N/A	5.2	1.23	N/A	3.04	
15	Red maple	13.0	1,621.77	686.3	44.51	20.8	1.35	21.8	1.45	N/A	N/A	11.3	2.67	N/A	5.47	
16	Red maple	12.5	1,522.27	625.5	40.57	19.7	1.28	20.8	1.39	N/A	N/A	10.8	2.55	N/A	5.22	
17	Honeylocust	7.7	711.75	181.2	11.75	9.4	0.61	5.1	0.34	N/A	N/A	2.7	0.63	N/A	1.58	
18	Honeylocust	8.5	796.75	230.2	14.93	10.9	0.70	5.7	0.38	N/A	N/A	3.0	0.70	N/A	1.79	
19	Honeylocust	8.0	742.64	198.8	12.89	10.0	0.65	5.3	0.36	N/A	N/A	2.8	0.66	N/A	1.66	
20	Littleleaf linden	6.0	558.98	54.5	3.53	6.5	0.42	5.7	0.38	N/A	N/A	3.0	0.70	N/A	1.51	
21	Littleleaf linden	6.0	558.98	54.5	3.53	6.5	0.42	5.7	0.38	N/A	N/A	3.0	0.70	N/A	1.51	
22	Honeylocust	8.0	742.64	159.0	10.32	14.4	0.93	5.8	0.39	N/A	N/A	3.0	0.71	N/A	2.03	
23	Kwanzan cherry	8.0	742.64	184.0	11.93	16.9	1.10	10.1	0.67	N/A	N/A	5.2	1.24	N/A	3.01	
24	Littleleaf linden	5.7	535.96	48.3	3.13	6.1	0.39	5.1	0.34	N/A	N/A	2.7	0.63	N/A	1.36	
25	Littleleaf linden	9.5	914.82	161.0	10.44	12.0	0.78	15.3	1.02	N/A	N/A	8.0	1.88	N/A	3.68	
26	Norway maple	11.0	833.69	379.2	24.60	16.5	1.07	19.5	1.31	N/A	N/A	10.1	2.39	N/A	4.77	
27	crabapple	11.0	995.15	332.3	21.56	19.5	1.27	10.0	0.67	N/A	N/A	5.2	1.23	N/A	3.16	
28	crabapple	12.5	1,201.23	452.6	29.35	23.4	1.52	11.6	0.77	N/A	N/A	6.0	1.42	N/A	3.71	
29	Norway maple	12.0	948.06	461.2	29.92	18.4	1.19	22.5	1.51	N/A	N/A	11.7	2.76	N/A	5.47	
30	Sweetgum	18.0	2,448.03	893.6	57.96	28.3	1.83	25.5	1.71	N/A	N/A	13.3	3.13	N/A	6.67	
31	Kwanzan cherry	12.0	1,129.62	494.1	32.05	26.7	1.73	17.0	1.13	N/A	N/A	8.8	2.08	N/A	4.95	
32	crabapple	11.5	1,060.92	370.0	24.00	20.8	1.35	10.5	0.70	N/A	N/A	5.5	1.29	N/A	3.34	

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						(lb/yr)	(\$/yr)	(ft³/yr)	(\$/yr)	(lb/yr)	(\$/yr)	(oz/yr)	(\$/yr)	(\$/yr)		
33	crabapple	13.5	1,353.23	545.0	35.35	26.1	1.69	12.6	0.85	N/A	N/A	6.6	1.55	N/A	4.09	
34	Norway maple	16.0	1,841.96	881.9	57.20	32.5	2.11	40.3	2.69	N/A	N/A	20.9	4.94	N/A	9.74	
35	Northern red oak	29.5	6,030.97	4,125.6	267.60	100.7	6.53	52.9	3.54	N/A	N/A	27.5	6.49	N/A	16.56	
36	Northern red oak	41.5	10,444.69	9,453.8	613.21	163.8	10.62	79.8	5.33	N/A	N/A	41.5	9.78	N/A	25.74	
37	Northern red oak	51.5	13,630.33	13,227.7	858.00	22.0	1.43	93.9	6.28	N/A	N/A	48.8	11.51	N/A	19.22	
38	Northern red oak	15.5	1,898.69	863.9	56.04	40.4	2.62	30.3	2.03	N/A	N/A	15.8	3.72	N/A	8.36	
39	Northern red oak	46.0	11,947.47	12,140.2	787.46	189.6	12.30	83.6	5.58	N/A	N/A	43.4	10.24	N/A	28.13	
40	Northern red oak	39.0	9,560.86	8,129.2	527.29	149.9	9.72	74.1	4.96	N/A	N/A	38.5	9.09	N/A	23.77	
41	Northern red oak	38.0	9,197.53	7,632.1	495.04	144.4	9.37	71.8	4.80	N/A	N/A	37.3	8.80	N/A	22.97	
42	Northern red oak	34.0	7,688.27	5,824.9	377.82	123.3	8.00	62.5	4.18	N/A	N/A	32.5	7.66	N/A	19.83	
43	Littleleaf linden	14.0	1,608.45	401.6	26.05	20.2	1.31	28.5	1.90	N/A	N/A	14.8	3.49	N/A	6.70	
44	crabapple	11.0	813.11	332.3	21.56	15.9	1.03	7.5	0.50	N/A	N/A	3.9	0.92	N/A	2.45	
<b>Total</b>			<b>114,480</b>	<b>78,727</b>	<b>5,106</b>	<b>1,597</b>	<b>104</b>	<b>1,063</b>	<b>71</b>	<b>N/A</b>	<b>N/A</b>	<b>552</b>	<b>130</b>	<b>N/A</b>	<b>305</b>	