

## Benefits Summary of Trees by Stratum and Species

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

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

Generated: 4/8/2019



Stratum	Species	Trees Number	Carbon Storage (ton)	Carbon Storage (\$)	Gross Carbon Sequestration (ton/yr)	Gross Carbon Sequestration (\$/yr)	Avoided Runoff (ft³/yr)	Avoided Runoff (\$/yr)	Pollution Removal (ton/yr)	Pollution Removal (\$/yr)
Center Square	Norway maple	3	0.86	111.72	0.03	4.37	82.39	5.51	0.00	10.10
	Red maple	6	1.50	194.05	0.05	6.91	112.77	7.54	0.00	13.83
	Honeylocust	4	0.38	49.90	0.02	2.89	21.95	1.47	0.00	2.69
	Sweetgum	1	0.45	57.96	0.01	1.83	25.52	1.71	0.00	3.13
	crabapple	4	0.85	110.26	0.04	5.82	44.72	2.99	0.00	5.48
	Kwanzan cherry	2	0.34	43.98	0.02	2.83	27.04	1.81	0.00	3.32
	Callery pear	10	3.76	487.91	0.11	13.97	132.04	8.83	0.00	16.19
	Littleleaf linden	4	0.16	20.64	0.02	2.02	31.88	2.13	0.00	3.91
	<b>Total</b>	<b>34</b>	<b>8.30</b>	<b>1,076.42</b>	<b>0.31</b>	<b>40.65</b>	<b>478.30</b>	<b>31.97</b>	<b>0.01</b>	<b>58.65</b>
Stearns Square	crabapple	1	0.17	21.56	0.01	1.03	7.51	0.50	0.00	0.92
	Northern red oak	8	30.70	3,982.47	0.47	60.60	548.85	36.69	0.01	67.30
	Littleleaf linden	1	0.20	26.05	0.01	1.31	28.46	1.90	0.00	3.49
	<b>Total</b>	<b>10</b>	<b>31.07</b>	<b>4,030.08</b>	<b>0.49</b>	<b>62.94</b>	<b>584.82</b>	<b>39.09</b>	<b>0.01</b>	<b>71.71</b>
<b>Study Area</b>		<b>44</b>	<b>39.36</b>	<b>5,106.50</b>	<b>0.80</b>	<b>103.59</b>	<b>1,063.12</b>	<b>71.07</b>	<b>0.02</b>	<b>130.35</b>

Carbon storage and gross carbon sequestration value is calculated based on the price of \$129.73 per ton.

Avoided runoff value is calculated by the price \$0.067/ft³. The user-designated weather station reported 37.2 inches of total annual precipitation.

Pollution removal value is calculated based on the prices of \$1,379.71 per ton (CO), \$4,807.63 per ton (O3), \$726.17 per ton (NO2), \$193.31 per ton (SO2), \$161,156.39 per ton (PM2.5).

Structural value is the compensatory value calculated based on the local cost of having to replace a tree with a similar tree.

A value of zero may indicate that ancillary data (pollution, weather, energy, etc.) may not available for this location or that the reported amounts are too small to be shown.

## Benefits Summary of Trees by Stratum and Species

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

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

Generated: 4/8/2019



Structural Value (\$)
--------------------------

3,623.71
----------

7,614.44
----------

2,993.78
----------

2,448.03
----------

4,610.54
----------

1,872.26
----------

15,927.68
-----------

2,568.75
----------

<b>41,659.18</b>
------------------

813.11
--------

70,398.82
-----------

1,608.45
----------

<b>72,820.38</b>
------------------

<b>114,479.56</b>
-------------------