

Annual CO₂ Benefits of Public Trees

11/25/2016

Species	Sequestered (lb)	Sequestered (\$)	Decomposition Release (lb)	Maintenance Release (lb)	Total Released (\$)	Avoided (lb)	Avoided (\$)	Net Total (lb)	Total Standar (\$) d Error	% of Total Trees	% of Total \$	Avg. \$/tree
Northern hackberry	19,894	149	-746	-237	-7	44,742	336	63,653	477 (N/A)	17.3	13.0	2.73
American elm	22,925	172	-1,589	-221	-14	32,343	243	53,458	401 (N/A)	16.1	10.9	2.46
Mulberry	20,087	151	-1,239	-199	-11	23,921	179	42,571	319 (N/A)	13.1	8.7	2.42
Black walnut	37,091	278	-1,733	-176	-14	28,671	215	63,852	479 (N/A)	10.9	13.0	4.35
Tree of heaven	14,947	112	-526	-79	-5	13,142	99	27,485	206 (N/A)	5.9	5.6	3.44
Siberian elm	13,727	103	-642	-90	-5	14,170	106	27,165	204 (N/A)	5.8	5.5	3.45
Silver maple	25,890	194	-1,009	-93	-8	15,755	118	40,542	304 (N/A)	5.3	8.3	5.63
Black cherry	5,838	44	-284	-59	-3	6,559	49	12,054	90 (N/A)	4.6	2.5	1.92
Pin oak	41,409	311	-2,202	-92	-17	14,235	107	53,350	400 (N/A)	2.8	10.9	14.29
White ash	8,417	63	-352	-37	-3	5,997	45	14,026	105 (N/A)	2.5	2.9	4.21
Boxelder	5,561	42	-293	-27	-2	3,795	28	9,037	68 (N/A)	2.0	1.8	3.39
American sycamore	5,134	39	-347	-25	-3	3,907	29	8,670	65 (N/A)	1.4	1.8	4.64
Catalpa	5,127	38	-452	-26	-4	3,807	29	8,456	63 (N/A)	1.4	1.7	4.53
Black locust	2,689	20	-77	-14	-1	2,232	17	4,830	36 (N/A)	1.4	1.0	2.59
Eastern cottonwood	6,392	48	-1,574	-44	-12	6,526	49	11,300	85 (N/A)	1.0	2.3	8.47
Eastern white pine	1,611	12	-143	-24	-1	2,222	17	3,666	27 (N/A)	0.9	0.7	3.06
Quercus shumardii	1,142	9	-36	-9	0	1,248	9	2,344	18 (N/A)	0.9	0.5	1.95
Sugar maple	3,518	26	-297	-18	-2	2,704	20	5,908	44 (N/A)	0.8	1.2	5.54
Honeylocust	2,228	17	-61	-11	-1	2,291	17	4,448	33 (N/A)	0.7	0.9	4.77
Hickory	1,497	11	-88	-8	-1	1,016	8	2,417	18 (N/A)	0.6	0.5	3.02
Green ash	984	7	-22	-6	0	732	5	1,688	13 (N/A)	0.6	0.3	2.11
Apple	917	7	-48	-7	0	1,050	8	1,911	14 (N/A)	0.4	0.4	3.58
Shingle oak	3,437	26	-379	-13	-3	1,927	14	4,972	37 (N/A)	0.4	1.0	9.32
Spruce	471	4	-29	-8	0	774	6	1,209	9 (N/A)	0.4	0.2	2.27
Kentucky coffeetree	1,586	12	-139	-8	-1	1,126	8	2,565	19 (N/A)	0.4	0.5	4.81
Eastern red cedar	123	1	-8	-4	0	351	3	461	3 (N/A)	0.3	0.1	1.15
Chinkapin oak	5,824	44	-361	-10	-3	1,455	11	6,908	52 (N/A)	0.2	1.4	25.90
Ginkgo	0	0	-75	-7	-1	792	6	710	5 (N/A)	0.2	0.1	2.66
Broadleaf Deciduou s Smal	0	0	-65	-7	-1	670	5	598	4 (N/A)	0.2	0.1	2.24
Swamp white oak	191	1	-3	-1	0	129	1	316	2 (N/A)	0.2	0.1	1.18
Sweetgum	1,769	13	-264	-9	-2	1,287	10	2,783	21 (N/A)	0.2	0.6	10.44
Norway maple	448	3	-11	-2	0	352	3	787	6 (N/A)	0.2	0.2	2.95
Bur oak	74	1	-1	-1	0	49	0	121	1 (N/A)	0.1	0.0	0.91

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Elm	445	3	-18	-2	0	393	3	819	6 (N/A)	0.1	0.2	6.14
Northern red oak	370	3	-73	-4	-1	432	3	725	5 (N/A)	0.1	0.1	5.44
Osage orange	386	3	-17	-2	0	395	3	762	6 (N/A)	0.1	0.2	5.71
White mulberry	268	2	-15	-2	0	308	2	560	4 (N/A)	0.1	0.1	4.20
Tulip tree	912	7	-188	-5	-1	734	6	1,453	11 (N/A)	0.1	0.3	10.90
Austrian pine	147	1	-13	-3	0	233	2	364	3 (N/A)	0.1	0.1	2.73
Saucer magnolia	420	3	-40	-4	0	617	5	994	7 (N/A)	0.1	0.2	7.45
Eastern redbud	114	1	-4	-1	0	124	1	232	2 (N/A)	0.1	0.0	1.74
Norway spruce	116	1	-6	-2	0	216	2	324	2 (N/A)	0.1	0.1	2.43
Citywide total	264,126	1,981	-15,469	-1,594	-128	243,430	1,826	490,493	3,679 (N/A)	100.0	100.0	3.64