

Annual Stormwater Benefits of Public Trees

11/25/2016

Species	Total rainfall interception (Gal)	Total (\$)	Standard Error	% of Total Trees	% of Total \$	Avg. \$/tree
Northern hackberry	147,691	4,002	(N/A)	17.3	13.9	22.87
American elm	122,042	3,307	(N/A)	16.1	11.5	20.29
Mulberry	57,564	1,560	(N/A)	13.1	5.4	11.82
Black walnut	129,800	3,518	(N/A)	10.9	12.2	31.98
Tree of heaven	46,635	1,264	(N/A)	5.9	4.4	21.06
Siberian elm	59,014	1,599	(N/A)	5.8	5.5	27.11
Silver maple	85,171	2,308	(N/A)	5.3	8.0	42.74
Black cherry	14,879	403	(N/A)	4.6	1.4	8.58
Pin oak	96,979	2,628	(N/A)	2.8	9.1	93.86
White ash	30,683	832	(N/A)	2.5	2.9	33.26
Boxelder	19,199	520	(N/A)	2.0	1.8	26.01
American sycamore	20,848	565	(N/A)	1.4	2.0	40.36
Catalpa	23,780	644	(N/A)	1.4	2.2	46.03
Black locust	7,310	198	(N/A)	1.4	0.7	14.15
Eastern cottonwood	52,502	1,423	(N/A)	1.0	4.9	142.28
Eastern white pine	25,497	691	(N/A)	0.9	2.4	76.77
Quercus shumardii	4,036	109	(N/A)	0.9	0.4	12.15
Sugar maple	16,971	460	(N/A)	0.8	1.6	57.49
Honeylocust	7,179	195	(N/A)	0.7	0.7	27.79
Hickory	5,674	154	(N/A)	0.6	0.5	25.63
Green ash	2,775	75	(N/A)	0.6	0.3	12.53
Apple	2,264	61	(N/A)	0.4	0.2	15.34
Shingle oak	14,363	389	(N/A)	0.4	1.3	97.31
Spruce	6,642	180	(N/A)	0.4	0.6	45.00
Kentucky coffeetree	7,314	198	(N/A)	0.4	0.7	49.55
Eastern red cedar	2,953	80	(N/A)	0.3	0.3	26.68
Chinkapin oak	12,824	348	(N/A)	0.2	1.2	173.76
Ginkgo	3,715	101	(N/A)	0.2	0.3	50.33
Broadleaf Deciduous Small	2,348	64	(N/A)	0.2	0.2	31.82
Swamp white oak	325	9	(N/A)	0.2	0.0	4.41
Sweetgum	11,182	303	(N/A)	0.2	1.1	151.51
Norway maple	1,172	32	(N/A)	0.2	0.1	15.88
Bur oak	172	5	(N/A)	0.1	0.0	4.65
Elm	1,466	40	(N/A)	0.1	0.1	39.72
Northern red oak	3,030	82	(N/A)	0.1	0.3	82.12
Osage orange	1,409	38	(N/A)	0.1	0.1	38.19
White mulberry	667	18	(N/A)	0.1	0.1	18.06
Tulip tree	7,239	196	(N/A)	0.1	0.7	196.17
Austrian pine	2,312	63	(N/A)	0.1	0.2	62.66
Saucer magnolia	4,740	128	(N/A)	0.1	0.4	128.45
Eastern redbud	264	7	(N/A)	0.1	0.0	7.17
Norway spruce	1,539	42	(N/A)	0.1	0.1	41.70
Citywide total	1,064,168	28,839	(N/A)	100.0	100.0	28.53