Ocala

Annual Air Quality Benefits of Public Trees

7/20/2015

Species	Deposition (lb)				Total Depos. ($)	Avoided (lb)				Total Avoided ($)	BVOC Emissions (lb)	BVOC Emissions ($)	Total (lb)	Total ($)	Standard Error	% of Total Trees	Avg. $/tree
	O_3	NO_2	PM_{10}	SO_2		NO_2	PM_{10}	VOC	SO_2								
lagerstroemia spp	24.4	1.8	8.0	0.2	75	4.7	1.6	1.6	3.7	23	0.0	0	46.1	98	(N/A)	22.6	0.50
Live oak	611.3	48.6	200.3	7.2	1,887	105.4	36.9	36.8	84.4	517	-1,669.4	-1,719	-538.4	684	(N/A)	20.7	3.85
Sabal	33.6	2.7	11.0	0.4	104	5.9	2.0	2.0	4.7	29	-74.9	-77	-12.6	55	(N/A)	17.0	0.38
Laurel oak	86.9	6.3	27.8	0.8	265	16.6	5.8	5.8	13.2	81	-104.1	-107	59.1	239	(N/A)	6.3	4.43
Water oak	115.6	8.4	37.0	1.1	353	21.7	7.6	7.6	17.3	106	-143.0	-147	73.2	312	(N/A)	6.1	5.99
cassine	8.0	0.6	2.6	0.1	25	1.5	0.5	0.5	1.2	7	0.0	0	15.1	32	(N/A)	5.8	0.64
Wahingtonia	4.4	0.4	1.5	0.1	14	0.8	0.3	0.3	0.6	4	-4.0	-4	4.2	13	(N/A)	2.8	0.56
American chestnut	50.4	3.7	16.2	0.4	154	11.2	3.9	3.9	8.9	55	0.0	0	98.6	209	(N/A)	2.6	9.48
Yaupon	7.1	0.6	2.3	0.1	22	1.2	0.4	0.4	0.9	6	-0.2	0	12.8	27	(N/A)	2.3	1.37
King palm	4.0	0.3	1.3	0.0	12	0.7	0.3	0.3	0.6	4	-2.4	-3	5.1	13	(N/A)	2.3	0.67
Japanese privet	2.4	0.2	0.8	0.0	7	0.4	0.1	0.1	0.3	2	0.0	0	4.3	9	(N/A)	1.2	0.91
Winged elm	4.2	0.3	1.3	0.0	13	0.9	0.3	0.3	0.7	4	-4.0	-4	4.0	13	(N/A)	1.2	1.28
Sweetgum spp	6.4	0.5	2.1	0.1	20	1.2	0.4	0.4	1.0	6	0.0	0	12.2	26	(N/A)	0.9	3.23
Camphor tree	7.1	0.6	2.3	0.1	22	1.3	0.5	0.5	1.1	7	0.0	0	13.5	29	(N/A)	0.9	3.57
Longleaf pine	5.2	0.4	1.7	0.1	16	1.0	0.4	0.4	0.8	5	-0.3	0	9.6	21	(N/A)	0.7	3.46
Hickory	5.1	0.4	1.6	0.0	16	1.0	0.4	0.4	0.8	5	-5.4	-6	4.3	15	(N/A)	0.7	2.52
Toddy palm	1.3	0.1	0.4	0.0	4	0.2	0.1	0.1	0.2	1	-2.6	-3	-0.3	2	(N/A)	0.7	0.38
Glossy privet	1.5	0.1	0.5	0.0	5	0.2	0.1	0.1	0.2	1	0.0	0	2.7	6	(N/A)	0.5	1.44
Carolina laurelcherry	3.5	0.3	1.1	0.0	11	0.7	0.2	0.2	0.5	3	-0.1	0	6.6	14	(N/A)	0.5	3.53
King sago	0.8	0.1	0.3	0.0	2	0.1	0.0	0.0	0.1	1	-0.7	-1	0.8	2	(N/A)	0.5	0.61
Canary island date palm	1.4	0.1	0.5	0.0	4	0.0	0.0	0.0	0.0	0	-0.6	-1	1.4	4	(N/A)	0.5	0.94
Pignut hickory	3.2	0.2	1.0	0.0	10	0.6	0.2	0.2	0.5	3	-3.6	-4	2.5	9	(N/A)	0.2	4.56
Chickasaw plum	0.4	0.0	0.1	0.0	1	0.1	0.0	0.0	0.1	0	0.0	0	0.7	1	(N/A)	0.2	0.73
Singapore Holly	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	0.0	0	0.0	0	(N/A)	0.2	0.02
Swamp chestnut oak	3.2	0.2	1.0	0.0	10	0.6	0.2	0.2	0.5	3	-3.6	-4	2.5	9	(N/A)	0.2	4.56
Pine spp	2.0	0.2	0.6	0.0	6	0.4	0.1	0.1	0.3	2	-0.1	0	3.7	8	(N/A)	0.2	3.94
Red cedar	0.6	0.1	0.2	0.0	2	0.1	0.0	0.0	0.1	1	0.0	0	1.2	3	(N/A)	0.2	1.31
Sweet viburnum	0.1	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0	0.0	0	0.1	0	(N/A)	0.2	0.12
Pygmy date palm	0.3	0.0	0.1	0.0	1	0.1	0.0	0.0	0.0	0	-0.1	0	0.5	1	(N/A)	0.2	0.62
Orange	0.3	0.0	0.1	0.0	1	0.0	0.0	0.0	0.0	0	0.0	0	0.5	1	(N/A)	0.2	0.55
Oak	2.0	0.1	0.7	0.0	6	0.4	0.1	0.1	0.3	2	-2.1	-2	1.8	6	(N/A)	0.2	3.06
Pecan	3.2	0.2	1.0	0.0	10	0.6	0.2	0.2	0.5	3	-3.6	-4	2.5	9	(N/A)	0.2	4.56
Phoenix	0.5	0.0	0.2	0.0	1	0.1	0.0	0.0	0.1	0	-1.0	-1	-0.2	1	(N/A)	0.2	0.39
Japanese maple	0.4	0.0	0.1	0.0	1	0.1	0.0	0.0	0.1	0	0.0	0	0.7	1	(N/A)	0.2	0.73
Pine	1.3	0.1	0.4	0.0	4	0.3	0.1	0.1	0.2	1	-0.1	0	2.5	5	(N/A)	0.2	2.66

Ocala

Annual Air Quality Benefits of Public Trees

7/20/2015

Species	Deposition (lb)				Total Depos. ($)	Avoided (lb)				Total Avoided ($)	BVOC Emissions (lb)	BVOC Emissions ($)	Total (lb)	Total ($)	Standard Error	% of Total Trees	Avg. $/tree
	O_3	NO_2	PM_{10}	SO_2		NO_2	PM_{10}	VOC	SO_2								
Citywide total	1,002.0	77.8	326.4	10.9	3,083	180.2	62.9	62.9	144.1	883	-2,025.9	-2,087	-158.7	1,879	(N/A)	100.0	2.19