

Benefits Summary By Species

Location: Blacksburg, Montgomery, Virginia, United States of America

Project: project, Series: series, Year: 2018

Generated: 5/10/2018



Species	Trees Number	Carbon Storage		Gross Carbon Sequestration		Avoided Runoff		Pollution Removal		Structural Value
		Ton	\$	Ton/Yr	\$/yr	ft3/yr	\$/yr	Ton/Yr	\$/yr	\$
Acer negundo	5	3.54	459.34	0.05	7.06	231.45	15.47	0.00	5.89	12,954.21
Acer platanoides	5	1.98	256.94	0.04	5.19	256.00	17.11	0.00	6.52	13,632.51
Acer rubrum	8	1.99	257.67	0.05	6.70	282.84	18.91	0.00	7.20	17,997.94
Amelanchier	1	0.17	22.56	0.01	0.68	15.13	1.01	0.00	0.39	1,689.74
Carya	1	0.29	37.09	0.01	1.01	22.45	1.50	0.00	0.57	2,188.06
Castanea mollissima	1	0.14	18.37	0.00	0.61	27.54	1.84	0.00	0.70	1,255.55
Fraxinus	6	2.41	312.12	0.04	5.64	223.27	14.92	0.00	5.68	19,512.77
Gleditsia triacanthos	2	0.83	107.05	0.02	2.23	34.51	2.31	0.00	0.88	5,751.99
Juglans nigra	15	8.00	1,038.06	0.15	19.25	989.43	66.14	0.01	25.19	60,647.49
Liriodendron tulipifera	3	2.06	267.85	0.03	3.89	233.89	15.63	0.00	5.96	18,053.54
Magnolia acuminata	1	1.37	178.36	0.02	2.31	46.84	3.13	0.00	1.19	8,425.45
Malus tschonoskii	1	0.21	26.60	0.01	0.75	19.12	1.28	0.00	0.49	1,970.17
Morus rubra	1	0.26	33.12	0.01	0.86	34.77	2.32	0.00	0.89	2,274.98
Phellodendron amurense	2	0.40	51.57	0.01	1.46	49.43	3.30	0.00	1.26	3,708.68
Pinus strobus	7	1.65	213.82	0.03	4.10	199.03	13.30	0.00	5.07	21,769.98
Pinus virginiana	2	0.38	49.24	0.01	0.96	65.62	4.39	0.00	1.67	4,641.17
Prunus avium	35	19.24	2,495.82	0.34	44.38	955.35	63.86	0.01	24.32	86,550.80
Prunus serotina	51	33.12	4,296.37	0.59	75.95	1,692.40	113.13	0.02	43.09	141,101.80
Quercus	5	11.66	1,512.81	0.02	2.27	48.02	3.21	0.00	1.22	7,580.70
Quercus acutissima	1	0.36	47.00	0.01	1.15	31.69	2.12	0.00	0.81	3,139.36
Quercus alba	222	533.50	69,209.89	4.97	644.56	13,159.22	879.64	0.15	335.05	3,120,529.62
Quercus coccinea	16	13.12	1,702.16	0.18	23.29	539.19	36.04	0.01	13.73	75,697.53
Quercus stellata	1	2.21	287.21	0.03	3.41	70.46	4.71	0.00	1.79	12,304.69
Quercus velutina	120	177.67	23,049.00	2.47	320.04	5,242.52	350.44	0.06	133.48	834,226.36
Robinia pseudoacacia	31	12.62	1,636.74	0.26	34.27	1,056.21	70.60	0.01	26.89	85,238.28
Tilia cordata	1	0.17	21.87	0.00	0.55	33.53	2.24	0.00	0.85	2,535.76

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		Ton	\$	Ton/Yr	\$/yr	ft3/yr	\$/yr	Ton/Yr	\$/yr	\$
Ulmus americana	4	1.13	146.98	0.03	3.30	183.17	12.24	0.00	4.66	9,668.64
Total	548	830.48	107,735.62	9.37	1,215.88	25,743.07	1,720.82	0.30	655.44	4,575,047.78

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 46.8 inches of total annual precipitation.

Pollution removal value is calculated based on the prices of \$1,468.513 per ton (CO), \$1,793.866 per ton (O3), \$303.474 per ton (NO2), \$73.400 per ton (SO2), \$27,300.122 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.