

Benefits Summary of Trees by Stratum and Species

Location: Lombard, DuPage, Illinois, United States of America

Project: Lombard eco review 17-20th, Series: StreetTrees, Year: 2021

Generated: 6/2/2021



Stratum	Species	Trees Number	Carbon Storage		Gross Carbon Sequestration		Avoided Runoff		Structural Value (\$)
			(ton)	(\$)	(ton/yr)	(\$/yr)	(ft ³ /yr)	(\$/yr)	
17th St-PI	Freeman maple	8	1.43	244.57	0.03	5.18	51.69	3.46	1,794.13
	Miyabe's Maple	2	0.59	101.11	0.00	0.10	43.36	2.90	1,038.08
	Black maple	5	0.03	4.88	0.01	0.89	4.00	0.27	333.75
	Norway maple	19	6.99	1,192.16	0.19	31.56	264.42	17.68	19,459.00
	Red maple	6	0.20	34.56	0.02	3.01	17.75	1.19	773.20
	Sugar maple	5	0.24	41.62	0.01	2.20	42.49	2.84	758.87
	Urban sunset maple	1	0.19	32.37	0.01	1.01	13.26	0.89	318.70
	Red horsechestnut	2	0.02	2.85	0.00	0.53	2.74	0.18	99.02
	Horse chestnut	2	0.08	13.52	0.00	0.79	11.36	0.76	160.29
	American hornbeam	1	0.01	1.15	0.00	0.10	1.20	0.08	42.71
	Northern hackberry	3	0.04	6.96	0.00	0.42	20.15	1.35	785.81
	Cornelian cherry	3	0.02	3.76	0.00	0.32	1.54	0.10	125.36
	Green ash	4	1.76	300.97	0.03	5.54	142.16	9.50	8,635.78
	Thornless honeylocust	23	17.54	2,990.96	0.15	25.95	677.47	45.29	56,479.24
	Kentucky coffeetree	5	0.02	3.88	0.00	0.37	9.53	0.64	298.59
	Japanese flower crabapple	2	0.01	1.37	0.00	0.30	1.85	0.12	102.06
	Royal Raindrops Crabapple	1	0.00	0.69	0.00	0.13	0.68	0.05	45.48
	Eastern hophornbeam	2	0.01	1.04	0.00	0.14	2.38	0.16	96.52
	Austrian pine	4	0.62	106.41	0.01	2.53	37.19	2.49	2,833.31
	Callery pear	1	0.32	53.92	0.01	1.76	19.04	1.27	976.66
Shingle oak	1	0.03	4.67	0.00	0.42	1.24	0.08	53.81	
Chinkapin oak	2	0.03	4.72	0.00	0.64	2.14	0.14	138.00	
English oak	1	0.80	136.27	0.01	1.05	53.36	3.57	3,071.95	
Syringa pekinensis	1	0.02	3.11	0.00	0.40	1.46	0.10	51.03	
Japanese tree lilac	3	0.07	12.21	0.01	1.09	4.43	0.30	193.89	
Baldcypress	2	0.01	1.28	0.00	0.28	1.23	0.08	146.63	
Silver linden	1	0.00	0.44	0.00	0.09	1.60	0.11	56.06	

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	Princeton elm	1	0.01	1.12	0.00	0.24	1.05	0.07	49.79
	The David Elm	10	0.19	31.59	0.00	0.09	36.46	2.44	1,019.06
	New horizon elm	6	1.56	266.69	0.07	12.33	84.67	5.66	3,082.70
	Chinese elm	2	0.73	124.97	0.03	4.50	39.90	2.67	1,945.21
	Total	129	33.57	5,725.84	0.61	103.96	1,591.79	106.40	104,964.71
18-19 Streets	Freeman maple	16	0.49	83.36	0.07	12.12	47.99	3.21	865.74
	Black maple	6	0.04	7.34	0.01	1.14	5.11	0.34	380.25
	Red maple	4	0.05	7.76	0.01	1.39	6.04	0.40	218.16
	Sugar maple	1	0.00	0.85	0.00	0.13	1.24	0.08	73.31
	Red horsechestnut	8	0.16	27.65	0.02	3.29	19.22	1.28	381.45
	Apple serviceberry	5	0.03	5.62	0.01	1.22	3.21	0.21	255.16
	Smooth service berry	2	0.02	4.15	0.00	0.62	1.71	0.11	96.52
	Northern hackberry	7	0.04	7.15	0.00	0.84	16.01	1.07	509.30
	Cornelian cherry	4	0.05	9.02	0.00	0.44	2.57	0.17	170.84
	European beech	1	0.01	0.94	0.00	0.11	1.18	0.08	50.53
	Thornless honeylocust	1	0.01	0.96	0.00	0.17	1.00	0.07	64.69
	Kentucky coffeetree	4	0.02	2.71	0.00	0.27	6.83	0.46	234.94
	Japanese flower crabapple	2	0.02	3.69	0.00	0.48	2.42	0.16	93.74
	Royal Raindrops Crabapple	1	0.00	0.69	0.00	0.13	0.68	0.05	45.48
	Shumard oak	1	0.01	2.07	0.00	0.25	0.96	0.06	49.97
	Syringa pekinensis	1	0.02	3.11	0.00	0.40	1.46	0.10	51.03
	Japanese tree lilac	4	0.10	17.15	0.01	1.68	6.73	0.45	250.19
	American basswood	1	0.00	0.44	0.00	0.09	1.20	0.08	60.38
	Littleleaf linden	1	0.33	56.19	0.01	1.25	19.63	1.31	1,277.47
	Silver linden	13	0.06	10.54	0.01	1.59	27.40	1.83	707.48
	American elm	1	0.44	75.53	0.01	1.95	25.59	1.71	614.15
	The David Elm	4	0.07	11.10	0.00	0.02	13.91	0.93	239.24

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	New horizon elm	9	1.36	231.83	0.07	12.06	67.07	4.48	2,369.61
	Wilson elm	1	0.02	2.96	0.00	0.54	1.94	0.13	49.79
	Total	98	3.36	572.82	0.25	42.16	281.12	18.79	9,109.43
20th Street Treated	Freeman maple	9	5.83	995.13	0.01	1.83	206.42	13.80	7,584.12
	Miyabe's Maple	1	0.19	32.37	0.00	0.04	15.13	1.01	337.02
	Norway maple	8	4.30	733.79	0.06	9.88	120.27	8.04	10,291.04
	Red maple	4	0.25	42.62	0.02	2.87	15.90	1.06	692.63
	Sugar maple	1	0.04	7.52	0.00	0.39	6.87	0.46	131.92
	Red horsechestnut	1	0.07	12.67	0.00	0.73	4.12	0.28	74.70
	Northern hackberry	1	0.01	0.92	0.00	0.12	2.05	0.14	69.00
	White ash	15	5.38	917.76	0.14	24.09	447.00	29.88	16,541.22
	Green ash	14	2.79	476.12	0.08	13.20	289.28	19.34	14,294.65
	Ginkgo	1	0.00	0.21	0.00	0.03	0.90	0.06	64.69
	Thornless honeylocust	13	4.31	735.61	0.11	18.79	253.36	16.94	16,035.17
	Exclamation london planetree	1	0.02	3.94	0.00	0.41	3.85	0.26	60.39
	Baldcypress	1	0.00	0.64	0.00	0.14	0.61	0.04	73.31
	American basswood	1	0.00	0.44	0.00	0.09	1.20	0.08	60.38
	The David Elm	1	0.01	1.39	0.00	0.00	2.15	0.14	49.79
	Total	72	23.23	3,961.13	0.43	72.60	1,369.11	91.52	66,360.02
Study Area		299	60.16	10,259.78	1.28	218.73	3,242.02	216.72	180,434.16

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Carbon storage and gross carbon sequestration value is calculated based on the price of \$170.55 per ton.

Due to limits of available models, i-Tree Eco will limit carbon storage to a maximum of 7,500 kg (16,534.7 lbs) and not estimate additional storage for any tree beyond a diameter of 254 cm (100 in). Whichever limit results in lower carbon storage is used.

Avoided runoff value is calculated by the price \$0.067/ft³. The user-designated weather station reported 36.8 inches of total annual precipitation.

Eco will always use the hourly measurements that have the greatest total rainfall or user-submitted rainfall if provided.

Structural value is the estimated 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.) is not available for this location or that the reported amounts are too small to be shown.