

Benefits and Costs Summary of Individual Trees

Location: Cedar Rapids, Linn, Iowa, United States of America

Project: Coe Tree Archive, Series: West Campus, Year: 2022

Generated: 12/4/2022



Tree ID	Species Name	DBH (in)	Replacement Value (\$)	Carbon Storage (lb)	Carbon Storage (\$)	Annual benefits									Total Annual Benefits (\$/yr)
						Gross Carbon Sequestration		Avoided Runoff		Carbon Avoided		Pollution Removal		Energy Savings	
						(lb/yr)	(\$/yr)	(ft³/yr)	(\$/yr)	(lb/yr)	(\$/yr)	(oz/yr)	(\$/yr)	(\$/yr)	
1	serviceberry spp	0.9	54.75	1.9	0.16	0.9	0.08	0.3	0.02	N/A	N/A	0.1	0.04	N/A	0.14
2	serviceberry spp	0.9	54.75	1.9	0.16	0.9	0.08	0.3	0.02	N/A	N/A	0.1	0.04	N/A	0.14
3	serviceberry spp	0.8	54.75	1.4	0.12	0.8	0.07	0.3	0.02	N/A	N/A	0.1	0.04	N/A	0.12
4	serviceberry spp	1.0	54.75	2.4	0.21	1.0	0.09	0.4	0.02	N/A	N/A	0.2	0.04	N/A	0.16
5	Ginkgo	3.1	98.70	7.4	0.63	0.7	0.06	2.2	0.15	N/A	N/A	1.0	0.27	N/A	0.48
6	European beech	9.5	1,021.16	424.2	36.17	11.5	0.98	51.3	3.43	N/A	N/A	21.8	6.23	N/A	10.65
7	Bur oak	2.4	78.30	9.5	0.81	1.1	0.10	2.0	0.13	N/A	N/A	0.8	0.24	N/A	0.46
8	American elm	2.6	39.15	11.3	0.97	2.3	0.19	1.9	0.13	N/A	N/A	0.8	0.23	N/A	0.56
9	Norway maple	2.8	78.30	24.0	2.05	4.0	0.34	1.9	0.13	N/A	N/A	0.8	0.23	N/A	0.70
10	Ginkgo	23.8	7,000.00	1,267.9	108.12	14.9	1.27	76.1	5.08	N/A	N/A	32.4	9.25	N/A	15.60
11	Siberian elm	2.9	19.58	17.3	1.47	3.1	0.26	2.2	0.15	N/A	N/A	0.9	0.27	N/A	0.68
12	American basswood	10.2	917.88	237.9	20.29	8.8	0.75	27.9	1.87	N/A	N/A	11.9	3.40	N/A	6.01
13	Pin oak	33.6	11,051.53	5,074.4	432.72	62.4	5.32	229.1	15.31	N/A	N/A	97.6	27.85	N/A	48.49
14	Green ash	24.9	6,238.73	1,846.5	157.46	29.6	2.53	97.8	6.54	N/A	N/A	41.7	11.89	N/A	20.96
15	Northern red oak	30.8	9,342.50	5,726.7	488.35	71.7	6.11	85.0	5.68	N/A	N/A	36.2	10.34	N/A	22.14
16	serviceberry spp	1.0	54.75	2.4	0.21	1.0	0.09	0.4	0.02	N/A	N/A	0.2	0.04	N/A	0.16
17	Japanese maple	7.4	546.63	166.3	14.18	5.6	0.48	7.7	0.52	N/A	N/A	3.3	0.94	N/A	1.94
18	Bur oak	2.7	78.30	12.7	1.08	1.3	0.11	2.3	0.15	N/A	N/A	1.0	0.28	N/A	0.55
19	Roughleaf dogwood	0.6	54.75	0.7	0.06	0.6	0.05	0.4	0.03	N/A	N/A	0.2	0.05	N/A	0.12
20	Swamp white oak	3.6	106.48	71.9	6.13	7.8	0.66	3.2	0.21	N/A	N/A	1.4	0.39	N/A	1.27
21	Bur oak	2.3	78.30	8.5	0.73	1.1	0.09	1.8	0.12	N/A	N/A	0.8	0.22	N/A	0.44
22	Swamp white oak	3.4	94.98	64.7	5.52	7.4	0.63	2.9	0.19	N/A	N/A	1.2	0.35	N/A	1.17
23	Tulip tree	2.8	78.30	13.9	1.18	2.6	0.22	2.8	0.19	N/A	N/A	1.2	0.34	N/A	0.75
24	Black maple	21.4	3,584.08	2,522.5	215.11	41.7	3.56	85.7	5.73	N/A	N/A	36.5	10.42	N/A	19.71
25	Prairie crabapple	2.6	54.75	15.3	1.30	2.4	0.20	1.4	0.10	N/A	N/A	0.6	0.17	N/A	0.47
26	Black oak	14.2	2,074.76	1,187.4	101.26	31.7	2.70	50.4	3.37	N/A	N/A	21.5	6.12	N/A	12.19
27	Pin oak	23.9	5,748.56	2,569.9	219.15	44.4	3.79	127.7	8.54	N/A	N/A	54.4	15.53	N/A	27.85
28	Northern hackberry	31.2	9,590.76	595.3	50.76	6.7	0.58	139.5	9.33	N/A	N/A	59.4	16.96	N/A	26.86
29	Tulip tree	0.8	78.30	0.5	0.05	0.5	0.04	0.6	0.04	N/A	N/A	0.2	0.07	N/A	0.15
30	cottonwood spp	25.4	2,000.27	7,822.2	667.04	121.5	10.36	108.7	7.27	N/A	N/A	46.3	13.22	N/A	30.85
31	cottonwood spp	20.9	1,477.08	4,820.3	411.06	91.0	7.76	85.9	5.74	N/A	N/A	36.6	10.44	N/A	23.95
32	Sugar maple	0.8	97.88	0.9	0.08	0.4	0.03	0.3	0.02	N/A	N/A	0.1	0.04	N/A	0.09

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xCoordinate	yCoordinate	Comments
-91.6562834179619	41.9865820071959	1
-91.6561881435638	41.9865872363717	2
-91.6562351315466	41.9866112808275	3
-91.6562904132506	41.9866661393665	4
-91.6565602051786	41.9865085801814	5
-91.6566507344701	41.9864361732031	6
-91.6567699795277	41.9863609606127	7
-91.6569599249059	41.986544734792	8
-91.656952084906	41.9865778688158	9
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-91.6569660370548	41.986386104051	11
-91.6569865526959	41.9864664990708	12
-91.6570182573008	41.9866445894951	13
-91.6569293595069	41.9866769833962	14
-91.6566522483024	41.9865831198756	16
-91.6563974824066	41.9865917858038	17
-91.6571563610502	41.9866768109022	18
-91.6572007942888	41.9865819956341	19
-91.6574156193679	41.9866300039457	20
-91.6574993820415	41.9866414742104	21
-91.6575228869998	41.9865855741583	22
-91.6576446098116	41.9865779824386	23
-91.6576773282287	41.9865019512335	24
-91.6575929428357	41.9863744942149	25
-91.6574652367121	41.9865213840735	26
-91.6577940862203	41.9865488301881	27
-91.657880644877	41.9865127548417	28
-91.6578829714408	41.9864010872254	29
-91.6580270763181	41.9865623762396	30
-91.6581073998667	41.9864751833293	31
-91.658158024441	41.9865023982936	32
-91.6581629703635	41.986664552173	33

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						Gross Carbon Sequestration		Avoided Runoff		Carbon Avoided		Pollution Removal		Energy Savings	
						(lb/yr)	(\$/yr)	(ft³/yr)	(\$/yr)	(lb/yr)	(\$/yr)	(oz/yr)	(\$/yr)	(\$/yr)	
33	White ash	29.4	8,693.09	5,066.3	432.04	65.0	5.54	68.6	4.59	N/A	N/A	29.2	8.34	N/A	18.47
34	Sugar maple	8.6	816.63	315.1	26.87	9.6	0.82	24.7	1.65	N/A	N/A	10.5	3.01	N/A	5.48
35	Bur oak	9.4	898.59	284.8	24.29	8.4	0.72	27.2	1.82	N/A	N/A	11.6	3.31	N/A	5.84
36	Swamp white oak	2.4	78.30	35.1	2.99	5.3	0.45	1.7	0.11	N/A	N/A	0.7	0.21	N/A	0.77
37	Norway maple	9.8	975.73	405.2	34.55	19.1	1.63	16.9	1.13	N/A	N/A	7.2	2.05	N/A	4.81
38	Northern red oak	2.2	78.30	9.4	0.80	1.7	0.15	1.9	0.13	N/A	N/A	0.8	0.23	N/A	0.50
39	European silver birch	7.9	621.10	420.7	35.87	21.1	1.80	21.0	1.40	N/A	N/A	8.9	2.55	N/A	5.75
40	Tulip tree	13.0	1,708.58	567.1	48.36	22.0	1.88	55.4	3.70	N/A	N/A	23.6	6.73	N/A	12.31
41	Bur oak	2.6	78.30	11.6	0.99	1.3	0.11	2.2	0.15	N/A	N/A	0.9	0.27	N/A	0.52
42	White oak	1.8	97.88	4.7	0.40	0.9	0.07	1.4	0.09	N/A	N/A	0.6	0.17	N/A	0.33
43	Black oak	25.6	6,746.06	4,825.5	411.50	71.1	6.06	75.4	5.04	N/A	N/A	32.1	9.17	N/A	20.27
44	Black oak	48.9	19,671.21	16,534.7	1,410.00	17.9	1.53	154.7	10.34	N/A	N/A	65.9	18.80	N/A	30.67
45	White oak	58.9	29,184.17	16,534.7	1,410.00	17.9	1.53	329.4	22.02	N/A	N/A	140.3	40.05	N/A	63.60
46	Swamp white oak	8.3	703.02	357.7	30.50	17.7	1.51	17.9	1.20	N/A	N/A	7.6	2.18	N/A	4.89
47	American basswood	18.7	2,768.44	993.5	84.72	19.9	1.70	80.7	5.40	N/A	N/A	34.4	9.81	N/A	16.91
48	Green ash	17.2	2,982.61	848.5	72.35	19.3	1.65	69.2	4.63	N/A	N/A	29.5	8.42	N/A	14.69
49	White oak	39.5	17,915.17	11,390.4	971.32	65.8	5.61	133.9	8.95	N/A	N/A	57.0	16.28	N/A	30.84
50	Northern red oak	16.2	2,647.13	1,202.2	102.52	28.7	2.45	66.3	4.43	N/A	N/A	28.3	8.06	N/A	14.95
51	Prairie crabapple	2.9	54.75	19.9	1.70	2.8	0.24	1.6	0.11	N/A	N/A	0.7	0.20	N/A	0.54
52	Northern red oak	14.0	1,979.78	843.3	71.91	23.3	1.99	57.4	3.83	N/A	N/A	24.4	6.97	N/A	12.80
53	Swamp white oak	2.8	78.30	45.7	3.90	6.1	0.52	2.1	0.14	N/A	N/A	0.9	0.26	N/A	0.92
54	Red maple	9.9	995.52	395.9	33.76	20.1	1.71	22.4	1.50	N/A	N/A	9.5	2.72	N/A	5.93
55	Siberian elm	3.0	19.58	18.8	1.60	3.2	0.28	2.3	0.16	N/A	N/A	1.0	0.29	N/A	0.72
56	Swamp white oak	12.5	1,580.51	804.1	68.57	26.5	2.26	43.8	2.93	N/A	N/A	18.7	5.33	N/A	10.52
57	Green ash	20.1	4,069.12	1,177.2	100.39	23.1	1.97	77.6	5.19	N/A	N/A	33.1	9.44	N/A	16.60
58	Prairie crabapple	2.9	54.75	19.9	1.70	2.8	0.24	1.6	0.11	N/A	N/A	0.7	0.20	N/A	0.54
59	Prairie crabapple	2.9	54.75	19.9	1.70	2.8	0.24	1.6	0.11	N/A	N/A	0.7	0.20	N/A	0.54
60	American elm	3.0	39.15	16.0	1.36	2.8	0.24	2.4	0.16	N/A	N/A	1.0	0.29	N/A	0.69
61	Bur oak	2.6	78.30	11.6	0.99	1.3	0.11	2.2	0.15	N/A	N/A	0.9	0.27	N/A	0.52
62	American basswood	3.4	71.23	17.8	1.52	2.0	0.17	3.1	0.21	N/A	N/A	1.3	0.38	N/A	0.76
63	American elm	1.8	39.15	4.7	0.40	1.4	0.12	1.2	0.08	N/A	N/A	0.5	0.14	N/A	0.34
64	Siberian elm	3.6	26.62	29.0	2.48	4.1	0.35	3.2	0.21	N/A	N/A	1.4	0.39	N/A	0.95

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-91.6582303277582	41.9865755588815	34
-91.6582984787727	41.9865518987953	35
-91.6582848345849	41.9864715509098	36
-91.6583838621375	41.9864476688166	37
-91.6583003904917	41.9863838704128	38
-91.6583231916295	41.9862459222021	39
-91.6584226020374	41.9863343622868	40
-91.6585144300821	41.986414844812	41
-91.6585701206682	41.9863374715057	42
-91.6584689022515	41.9862494446438	43
-91.6583573899632	41.9861314443276	44
-91.6586342827066	41.9862910058094	45
-91.6559042759834	41.9863202872571	47
-91.6560498750964	41.9863148582739	48
-91.6560299233278	41.986231684379	49
-91.6560907036451	41.986193854805	50
-91.6561828072343	41.9861693905027	51
-91.6561731445995	41.9862403166957	52
-91.6563385083469	41.9861915328326	53
-91.6563598083702	41.9861238630579	54
-91.6563823920486	41.9860345674239	55
-91.656488211773	41.9861096358305	56
-91.6564920393477	41.9860350024053	57
-91.6565032295463	41.9859591009368	58
-91.6566518471552	41.9858805111263	59
-91.656575849132	41.9860524402304	60
-91.6566764589909	41.9859883692147	61
-91.6568063612321	41.9859614871863	62
-91.6566460739311	41.9861201643976	63
-91.656798338095	41.9860823009813	64
-91.656799879798	41.9857948126794	65
-91.6569021713959	41.9859059314483	66

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						Gross Carbon Sequestration		Avoided Runoff		Carbon Avoided		Pollution Removal		Energy Savings	
						(lb/yr)	(\$/yr)	(ft³/yr)	(\$/yr)	(lb/yr)	(\$/yr)	(oz/yr)	(\$/yr)	(\$/yr)	
65	Sugar maple	2.6	97.88	18.8	1.60	2.0	0.17	2.8	0.18	N/A	N/A	1.2	0.34	N/A	0.69
66	Swamp white oak	2.6	78.30	40.2	3.43	5.7	0.49	1.9	0.13	N/A	N/A	0.8	0.23	N/A	0.85
67	Pin oak	20.1	4,069.12	1,819.1	155.13	37.4	3.19	94.7	6.33	N/A	N/A	40.3	11.51	N/A	21.03
68	American elm	1.8	39.15	4.7	0.40	1.4	0.12	1.2	0.08	N/A	N/A	0.5	0.14	N/A	0.34
69	Pin oak	26.8	7,225.39	3,230.1	275.45	49.8	4.25	155.6	10.40	N/A	N/A	66.3	18.92	N/A	33.56
70	Eastern white pine	18.2	3,338.19	757.7	64.61	19.9	1.70	66.1	4.42	N/A	N/A	28.1	8.03	N/A	14.15
71	Eastern white pine	17.7	3,157.89	709.4	60.50	19.2	1.63	63.9	4.27	N/A	N/A	27.2	7.76	N/A	13.67
72	Eastern white pine	16.8	2,846.01	627.1	53.48	17.8	1.52	59.8	3.99	N/A	N/A	25.5	7.27	N/A	12.78
73	Northern red oak	2.1	78.30	8.4	0.72	1.6	0.14	1.7	0.12	N/A	N/A	0.7	0.21	N/A	0.46
74	Prairie crabapple	7.4	543.69	196.9	16.79	10.5	0.89	6.6	0.44	N/A	N/A	2.8	0.80	N/A	2.13
75	Prairie crabapple	10.5	933.42	463.6	39.54	17.3	1.47	12.2	0.81	N/A	N/A	5.2	1.48	N/A	3.77
76	Prairie crabapple	6.8	265.64	160.1	13.65	9.3	0.79	5.7	0.38	N/A	N/A	2.4	0.69	N/A	1.86
77	Sugar maple	1.8	97.88	7.6	0.65	1.2	0.10	1.3	0.08	N/A	N/A	0.5	0.15	N/A	0.34
78	Sugar maple	2.3	97.88	14.0	1.19	1.7	0.14	2.1	0.14	N/A	N/A	0.9	0.26	N/A	0.55
79	Sugar maple	2.4	97.88	15.5	1.32	1.8	0.15	2.3	0.16	N/A	N/A	1.0	0.28	N/A	0.59
80	Northern red oak	30.0	9,051.07	5,372.0	458.10	69.1	5.89	84.7	5.66	N/A	N/A	36.1	10.30	N/A	21.85
81	American elm	2.9	39.15	14.7	1.26	2.6	0.22	2.3	0.15	N/A	N/A	1.0	0.28	N/A	0.65
82	Star magnolia	9.5	792.95	367.9	31.37	10.4	0.89	21.6	1.44	N/A	N/A	9.2	2.62	N/A	4.95
83	Northern red oak	19.9	3,988.77	1,981.7	168.99	38.5	3.28	72.7	4.86	N/A	N/A	30.9	8.83	N/A	16.97
84	Norway maple	10.4	1,097.47	463.6	39.53	20.6	1.76	18.9	1.27	N/A	N/A	8.1	2.30	N/A	5.32
85	Blue spruce	10.9	1,379.75	385.0	32.83	7.9	0.68	22.7	1.52	N/A	N/A	9.7	2.76	N/A	4.96
86	Black maple	23.4	4,259.06	3,094.1	263.85	46.8	3.99	97.6	6.52	N/A	N/A	41.6	11.87	N/A	22.38
87	Swamp white oak	19.8	3,948.89	2,008.9	171.31	41.9	3.57	83.6	5.59	N/A	N/A	35.6	10.16	N/A	19.33
88	Green ash	21.9	4,828.48	1,409.8	120.22	25.5	2.18	81.7	5.46	N/A	N/A	34.8	9.93	N/A	17.57
89	Littleleaf linden	29.1	10,520.20	3,699.5	315.48	47.6	4.06	82.4	5.51	N/A	N/A	35.1	10.02	N/A	19.59
90	White ash	18.2	3,338.19	1,621.0	138.23	33.7	2.87	78.8	5.27	N/A	N/A	33.6	9.58	N/A	17.71
91	American basswood	18.0	2,574.91	908.0	77.43	18.9	1.61	77.6	5.19	N/A	N/A	33.0	9.43	N/A	16.23
92	White oak	18.2	4,046.93	1,649.9	140.70	25.0	2.13	87.4	5.84	N/A	N/A	37.2	10.63	N/A	18.60
93	Prairie crabapple	6.4	235.31	138.0	11.77	8.5	0.72	5.2	0.35	N/A	N/A	2.2	0.63	N/A	1.70
94	Pin oak	29.4	8,693.09	3,886.3	331.40	54.6	4.66	182.4	12.19	N/A	N/A	77.7	22.17	N/A	39.02
95	Thornless honeylocust	23.9	4,437.23	3,830.5	326.65	63.5	5.41	59.7	3.99	N/A	N/A	25.4	7.26	N/A	16.67
96	Black oak	32.1	10,385.36	8,238.0	702.50	95.6	8.16	78.6	5.26	N/A	N/A	33.5	9.56	N/A	22.97

Benefits and Costs Summary of Individual Trees

Location: Cedar Rapids, Linn, Iowa, United States of America

Project: Coe Tree Archive, Series: West Campus, Year: 2022

Generated: 12/4/2022



xCoordinate	yCoordinate	Comments
-91.6570710530698	41.9859286114705	67
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-91.6570385842602	41.9857480298934	70
-91.6571082307555	41.9856128787072	71
-91.6571719870251	41.9857241005045	72
-91.6572050904159	41.9856527244701	73
-91.6572953688968	41.9856576528468	74
-91.6572207798452	41.9855354794874	75
-91.6575534941454	41.9856201797894	78
-91.6576229589036	41.9856161220804	79
-91.6576989526916	41.9856126823891	80
-91.6574470226149	41.9855823147154	81
-91.6575493617925	41.9855577396807	82
-91.6576429962235	41.9855401324886	83
-91.6573579630825	41.9854800702664	84
-91.6574608874541	41.98546850111	85
-91.6575878713401	41.985449682217	86
-91.6577190250473	41.9854329187115	87
-91.6574800935743	41.985374274569	88
-91.6576360967724	41.9853703702323	89
-91.6577108038677	41.9852722200438	90
-91.6578366078822	41.985237741122	91
-91.6577973552182	41.9853144432143	92
-91.6580006053549	41.9853871825949	93
-91.657766665372	41.9860194533049	94
-91.6579081311832	41.9860470349445	95
-91.6580824254379	41.9859473375213	96
-91.6581736294015	41.9859634038256	97
-91.6582781167201	41.9860220238688	98
-91.658308450968	41.9858974806646	99
-91.6573798296085	41.9868891332106	100

Benefits and Costs Summary of Individual Trees

Location: Cedar Rapids, Linn, Iowa, United States of America

Project: Coe Tree Archive, Series: West Campus, Year: 2022

Generated: 12/4/2022



Tree ID	Species Name	DBH (in)	Replacement Value (\$)	Carbon Storage (lb)	Carbon Storage (\$)	Annual benefits									Total Annual Benefits (\$/yr)
						Gross Carbon Sequestration		Avoided Runoff		Carbon Avoided		Pollution Removal		Energy Savings	
						(lb/yr)	(\$/yr)	(ft³/yr)	(\$/yr)	(lb/yr)	(\$/yr)	(oz/yr)	(\$/yr)	(\$/yr)	
97	Northern red oak	31.6	9,837.65	6,094.8	519.74	74.4	6.34	85.2	5.70	N/A	N/A	36.3	10.36	N/A	22.39
98	Pin oak	31.7	9,899.16	4,517.3	385.22	58.9	5.02	207.5	13.87	N/A	N/A	88.4	25.22	N/A	44.11
99	Prairie crabapple	9.1	740.70	326.6	27.85	14.1	1.20	9.4	0.63	N/A	N/A	4.0	1.14	N/A	2.97
100	American elm	2.8	39.15	13.5	1.15	2.5	0.21	2.1	0.14	N/A	N/A	0.9	0.26	N/A	0.62
101	Bur oak	2.5	78.30	10.5	0.90	1.2	0.10	2.1	0.14	N/A	N/A	0.9	0.25	N/A	0.49
102	Green ash	37.7	13,432.83	4,415.9	376.56	44.1	3.76	175.8	11.75	N/A	N/A	74.9	21.37	N/A	36.88
103	Northern red oak	24.7	6,139.09	3,349.9	285.66	52.3	4.46	79.6	5.32	N/A	N/A	33.9	9.68	N/A	19.47
104	Freeman maple	5.5	186.40	219.8	18.74	18.2	1.55	12.0	0.80	N/A	N/A	5.1	1.46	N/A	3.81
105	Prairie crabapple	5.0	143.62	75.5	6.44	6.0	0.51	3.5	0.23	N/A	N/A	1.5	0.43	N/A	1.17
106	serviceberry spp	0.9	54.75	1.9	0.16	0.9	0.08	0.3	0.02	N/A	N/A	0.1	0.04	N/A	0.14
107	Green ash	25.2	6,389.69	1,893.6	161.48	30.0	2.56	99.5	6.65	N/A	N/A	42.4	12.09	N/A	21.31
108	Green ash	35.6	12,231.14	3,914.7	333.82	45.0	3.84	162.0	10.83	N/A	N/A	69.0	19.69	N/A	34.36
109	Swamp white oak	20.9	4,398.58	2,237.6	190.82	44.2	3.77	89.4	5.97	N/A	N/A	38.1	10.87	N/A	20.61
110	Sugar maple	13.9	2,313.88	976.3	83.25	18.3	1.56	49.2	3.29	N/A	N/A	21.0	5.99	N/A	10.84
111	Sugar maple	18.0	3,956.02	1,794.6	153.04	25.9	2.21	66.9	4.47	N/A	N/A	28.5	8.13	N/A	14.82
112	Thornless honeylocust	25.8	5,148.60	4,635.7	395.32	61.7	5.27	59.7	3.99	N/A	N/A	25.4	7.25	N/A	16.51
113	Northern hackberry	20.1	4,069.12	280.3	23.90	4.9	0.42	110.9	7.42	N/A	N/A	47.3	13.49	N/A	21.32
114	Norway maple	21.6	4,697.40	2,446.6	208.64	53.0	4.52	72.1	4.82	N/A	N/A	30.7	8.77	N/A	18.11
115	Northern hackberry	14.2	2,036.43	154.6	13.18	3.9	0.33	61.4	4.11	N/A	N/A	26.2	7.47	N/A	11.91
116	Washington hawthorn	7.8	586.40	190.9	16.28	9.6	0.82	5.0	0.34	N/A	N/A	2.1	0.61	N/A	1.76
117	Tulip tree	1.0	78.30	1.0	0.08	0.6	0.05	0.7	0.04	N/A	N/A	0.3	0.08	N/A	0.18
118	Northern red oak	2.1	78.30	8.4	0.72	1.6	0.14	1.7	0.12	N/A	N/A	0.7	0.21	N/A	0.46
119	Bur oak	2.3	78.30	8.5	0.73	1.1	0.09	1.8	0.12	N/A	N/A	0.8	0.22	N/A	0.44
120	Swamp white oak	2.5	78.30	37.6	3.21	5.5	0.47	1.8	0.12	N/A	N/A	0.8	0.22	N/A	0.81
121	Bur oak	9.4	898.59	284.8	24.29	8.4	0.72	27.2	1.82	N/A	N/A	11.6	3.31	N/A	5.84
122	Freeman maple	4.0	98.59	106.8	9.11	12.2	1.04	6.6	0.44	N/A	N/A	2.8	0.80	N/A	2.28
123	Northern red oak	23.9	5,748.56	3,092.3	263.70	49.9	4.26	78.4	5.24	N/A	N/A	33.4	9.53	N/A	19.03
124	American basswood	1.6	58.73	3.0	0.26	0.8	0.06	1.2	0.08	N/A	N/A	0.5	0.15	N/A	0.29
125	Bur oak	30.3	9,030.25	5,266.2	449.07	47.9	4.08	126.1	8.43	N/A	N/A	53.7	15.33	N/A	27.84
126	Swamp white oak	25.3	6,440.42	3,276.4	279.39	53.5	4.56	107.1	7.16	N/A	N/A	45.6	13.02	N/A	24.74
127	American elm	2.9	39.15	14.7	1.26	2.6	0.22	2.3	0.15	N/A	N/A	1.0	0.28	N/A	0.65
128	American basswood	36.7	9,774.79	4,871.6	415.43	47.9	4.09	114.5	7.66	N/A	N/A	48.8	13.92	N/A	25.67

Benefits and Costs Summary of Individual Trees

Location: Cedar Rapids, Linn, Iowa, United States of America

Project: Coe Tree Archive, Series: West Campus, Year: 2022

Generated: 12/4/2022



xCoordinate	yCoordinate	Comments
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-91.657162149781	41.9871089531495	105
-91.657068477958	41.9871618034243	106
-91.6569157503165	41.9871161662728	107
-91.6567928097112	41.9871824877012	108
-91.6566870457836	41.9872409664797	109
-91.6568878200201	41.9873554073867	110
-91.6562944462787	41.9867089367708	111
-91.6561784070351	41.9867719430315	112
-91.6565513909482	41.9869972853655	113
-91.6580089936263	41.9858648843201	114
-91.6580420309494	41.9857888452158	115
-91.6581578826305	41.9857328400196	116
-91.6580831924198	41.9856636490605	117
-91.6580984117152	41.9856081763118	118
-91.6580145833538	41.9855776928166	119
-91.6579585768569	41.9855419950095	120
-91.6578664456808	41.9855667370037	121
-91.6576448929343	41.9866738654376	122
-91.657806122748	41.9866362394763	123
-91.6579455961207	41.9866589573334	124
-91.658059911978	41.9867000328935	125
-91.6581590046481	41.9867853592075	126
-91.6582514310178	41.9868705087317	127
-91.6583269823583	41.986972504652	128
-91.6583800013922	41.9871128521198	129
-91.6583111495662	41.9872152750611	130
-91.6580826257666	41.9873186052067	131
-91.6579135622194	41.9873012575857	132
-91.6578379677433	41.9872578959866	133

Benefits and Costs Summary of Individual Trees

Location: Cedar Rapids, Linn, Iowa, United States of America

Project: Coe Tree Archive, Series: West Campus, Year: 2022

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Tree ID	Species Name	DBH (in)	Replacement Value (\$)	Carbon Storage (lb)	Carbon Storage (\$)	Annual benefits									Total Annual Benefits (\$/yr)
						Gross Carbon Sequestration		Avoided Runoff		Carbon Avoided		Pollution Removal		Energy Savings	
						(lb/yr)	(\$/yr)	(ft³/yr)	(\$/yr)	(lb/yr)	(\$/yr)	(oz/yr)	(\$/yr)	(\$/yr)	
129	White oak	9.5	1,021.16	330.3	28.17	9.5	0.81	29.5	1.97	N/A	N/A	12.5	3.58	N/A	6.36
130	Swamp white oak	2.5	78.30	37.6	3.21	5.5	0.47	1.8	0.12	N/A	N/A	0.8	0.22	N/A	0.81
131	Kentucky Coffee tree	0.8	54.75	2.5	0.22	0.8	0.07	0.5	0.03	N/A	N/A	0.2	0.06	N/A	0.16
132	Swamp white oak	26.3	6,958.71	3,540.0	301.88	55.6	4.74	109.5	7.32	N/A	N/A	46.6	13.31	N/A	25.37
133	Siberian elm	3.5	25.16	27.1	2.31	4.0	0.34	3.0	0.20	N/A	N/A	1.3	0.37	N/A	0.91
134	Red maple	12.3	1,530.69	666.9	56.87	27.2	2.32	35.0	2.34	N/A	N/A	14.9	4.26	N/A	8.92
135	Pin oak	31.0	9,466.80	4,320.2	368.41	57.6	4.91	199.7	13.35	N/A	N/A	85.1	24.28	N/A	42.54
136	Siberian elm	0.8	19.58	0.8	0.07	0.6	0.05	0.5	0.04	N/A	N/A	0.2	0.07	N/A	0.15
137	White oak	35.7	15,235.71	8,848.9	754.60	68.3	5.83	107.0	7.16	N/A	N/A	45.6	13.01	N/A	25.99
138	Northern hackberry	20.6	4,273.53	292.4	24.93	5.0	0.43	116.3	7.77	N/A	N/A	49.5	14.14	N/A	22.34
139	Siberian elm	2.7	19.58	14.6	1.24	2.8	0.24	2.0	0.13	N/A	N/A	0.8	0.24	N/A	0.61
140	Black oak	7.6	593.43	271.6	23.16	13.4	1.14	15.6	1.04	N/A	N/A	6.7	1.90	N/A	4.09
141	Ginkgo	1.0	97.88	0.4	0.04	0.1	0.01	0.5	0.04	N/A	N/A	0.2	0.06	N/A	0.11
142	Northern red oak	41.2	15,351.69	11,610.7	990.11	80.6	6.88	112.6	7.53	N/A	N/A	48.0	13.70	N/A	28.10
143	European silver birch	5.0	179.73	136.1	11.61	10.9	0.93	9.2	0.61	N/A	N/A	3.9	1.11	N/A	2.65
144	Northern red oak	35.5	12,172.97	8,086.3	689.56	87.8	7.49	84.5	5.65	N/A	N/A	36.0	10.27	N/A	23.40
145	Green ash	32.2	10,205.41	3,170.0	270.32	40.0	3.41	140.5	9.39	N/A	N/A	59.8	17.08	N/A	29.87
146	American elm	25.6	3,548.52	2,734.7	233.21	53.1	4.53	79.8	5.34	N/A	N/A	34.0	9.70	N/A	19.57
147	Swamp white oak	2.1	78.30	28.2	2.40	4.6	0.40	1.4	0.10	N/A	N/A	0.6	0.18	N/A	0.67
148	Sugar maple	2.1	97.88	11.2	0.95	1.5	0.13	1.8	0.12	N/A	N/A	0.7	0.21	N/A	0.46
149	American elm	2.6	39.15	11.3	0.97	2.3	0.19	1.9	0.13	N/A	N/A	0.8	0.23	N/A	0.56
150	Black maple	27.2	5,707.58	4,363.3	372.08	56.8	4.84	121.0	8.09	N/A	N/A	51.5	14.71	N/A	27.64
151	Ginkgo	31.1	11,785.22	2,491.9	212.50	22.4	1.91	88.8	5.94	N/A	N/A	37.8	10.80	N/A	18.65
152	Freeman maple	7.6	569.23	457.5	39.01	27.4	2.34	22.2	1.49	N/A	N/A	9.5	2.70	N/A	6.52
153	Freeman maple	6.6	268.42	332.2	28.33	22.9	1.95	17.0	1.14	N/A	N/A	7.2	2.07	N/A	5.15
154	Thornless honeylocust	26.6	5,464.40	5,003.3	426.66	60.2	5.14	59.2	3.96	N/A	N/A	25.2	7.20	N/A	16.30
155	Sugar maple	2.4	97.88	15.5	1.32	1.8	0.15	2.3	0.16	N/A	N/A	1.0	0.28	N/A	0.59
156	Norway maple	19.4	3,791.39	1,915.1	163.31	46.1	3.93	60.6	4.05	N/A	N/A	25.8	7.36	N/A	15.35
157	Green ash	23.3	5,464.10	1,605.9	136.95	27.4	2.34	89.1	5.96	N/A	N/A	38.0	10.84	N/A	19.13
158	Ginkgo	1.4	97.88	1.0	0.08	0.2	0.02	0.7	0.05	N/A	N/A	0.3	0.09	N/A	0.16
159	Northern red oak	2.1	78.30	8.4	0.72	1.6	0.14	1.7	0.12	N/A	N/A	0.7	0.21	N/A	0.46
160	Norway maple	17.8	3,193.55	1,573.8	134.21	41.3	3.52	52.2	3.49	N/A	N/A	22.2	6.35	N/A	13.36

Benefits and Costs Summary of Individual Trees

Location: Cedar Rapids, Linn, Iowa, United States of America

Project: Coe Tree Archive, Series: West Campus, Year: 2022

Generated: 12/4/2022



xCoordinate	yCoordinate	Comments
-91.6576904493387	41.9871702417407	134
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-91.6575296985056	41.9867792482329	138
-91.6574599817894	41.9870906204269	139
-91.6575668450521	41.9871912261273	140
-91.6576783938308	41.9872839200541	141
-91.6576033480878	41.9873872238125	142
-91.6575234954526	41.9873524335215	143
-91.6574370147326	41.987201015116	144
-91.6572120283615	41.987209757943	145
-91.657120940192	41.9872522296562	146
-91.6573410885715	41.9872843826623	148
-91.657370889157	41.9873650392929	149
-91.6573349864813	41.9874764835708	150
-91.6583305951107	41.9868278110796	151
-91.6584332019969	41.9869038283428	152
-91.6586292223945	41.9867913565611	153
-91.6586450088312	41.9866881936458	154
-91.6584105662473	41.9866570363051	155
-91.6585149497571	41.9865542893503	156
-91.6585696598737	41.9864769464918	157
-91.6591168749292	41.9867651219989	158
-91.6591099709239	41.9868145789052	159
-91.6580428594332	41.9874526978728	160
-91.657922294353	41.9875936610172	161
-91.6577671678497	41.9876752693503	162
-91.6575534167732	41.9877710354764	163
-91.657558230191	41.9878825691859	164
-91.657845344061	41.9877751819835	165
-91.6579430178086	41.987735220334	166

Benefits and Costs Summary of Individual Trees

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Tree ID	Species Name	DBH (in)	Replacement Value (\$)	Carbon Storage (lb)	Carbon Storage (\$)	Annual benefits									Total Annual Benefits (\$/yr)
						Gross Carbon Sequestration		Avoided Runoff		Carbon Avoided		Pollution Removal		Energy Savings	
						(lb/yr)	(\$/yr)	(ft³/yr)	(\$/yr)	(lb/yr)	(\$/yr)	(oz/yr)	(\$/yr)	(\$/yr)	
161	Norway maple	16.5	2,745.67	1,324.0	112.90	37.4	3.19	45.6	3.05	N/A	N/A	19.4	5.54	N/A	11.78
162	Washington hawthorn	11.9	1,153.67	536.9	45.79	17.6	1.50	10.9	0.73	N/A	N/A	4.6	1.32	N/A	3.55
163	Washington hawthorn	7.8	586.40	190.9	16.28	9.6	0.82	5.0	0.34	N/A	N/A	2.1	0.61	N/A	1.76
164	Washington hawthorn	7.4	543.69	167.9	14.31	8.9	0.76	4.6	0.31	N/A	N/A	1.9	0.56	N/A	1.62
165	Black oak	32.6	10,697.51	8,542.4	728.46	97.5	8.32	77.0	5.15	N/A	N/A	32.8	9.36	N/A	22.82
166	Roughleaf dogwood	12.3	1,221.65	989.2	84.36	28.4	2.42	17.2	1.15	N/A	N/A	7.3	2.09	N/A	5.65
167	Kentucky Coffee tree	1.1	54.75	4.3	0.36	1.1	0.10	0.6	0.04	N/A	N/A	0.3	0.07	N/A	0.21
168	Green ash	23.3	5,464.10	1,605.9	136.95	27.4	2.34	89.1	5.96	N/A	N/A	38.0	10.84	N/A	19.13
169	Freeman maple	7.6	569.23	457.5	39.01	27.4	2.34	22.2	1.49	N/A	N/A	9.5	2.70	N/A	6.52
170	cottonwood spp	17.9	1,184.78	3,281.1	279.80	72.4	6.18	67.1	4.49	N/A	N/A	28.6	8.16	N/A	18.82
171	Washington hawthorn	6.8	265.64	136.5	11.64	7.9	0.67	3.9	0.26	N/A	N/A	1.7	0.48	N/A	1.42
172	Green ash	40.1	14,759.93	5,027.6	428.73	41.2	3.52	191.3	12.79	N/A	N/A	81.5	23.26	N/A	39.57
173	Scots pine	15.7	2,486.92	687.2	58.60	18.4	1.57	56.0	3.74	N/A	N/A	23.8	6.81	N/A	12.12
174	Red maple	2.5	78.30	14.6	1.24	3.1	0.27	1.5	0.10	N/A	N/A	0.6	0.18	N/A	0.55
175	Roughleaf dogwood	7.9	597.42	355.9	30.35	16.6	1.42	7.7	0.51	N/A	N/A	3.3	0.93	N/A	2.86
176	Roughleaf dogwood	18.4	2,536.90	2,518.2	214.74	2.6	0.22	33.9	2.27	N/A	N/A	14.4	4.12	N/A	6.61
177	Washington hawthorn	3.1	55.21	20.0	1.70	2.6	0.22	1.2	0.08	N/A	N/A	0.5	0.14	N/A	0.44
178	American elm	2.9	39.15	14.7	1.26	2.6	0.22	2.3	0.15	N/A	N/A	1.0	0.28	N/A	0.65
179	White ash	18.7	3,523.51	1,728.9	147.43	34.9	2.98	80.1	5.36	N/A	N/A	34.1	9.74	N/A	18.08
180	Northern hackberry	20.2	4,109.60	282.7	24.11	5.0	0.42	112.0	7.49	N/A	N/A	47.7	13.62	N/A	21.53
181	Freeman maple	7.5	557.86	443.9	37.86	27.0	2.30	21.7	1.45	N/A	N/A	9.2	2.63	N/A	6.38
182	Roughleaf dogwood	0.6	54.75	0.7	0.06	0.6	0.05	0.4	0.03	N/A	N/A	0.2	0.05	N/A	0.12
183	Roughleaf dogwood	0.6	54.75	0.7	0.06	0.6	0.05	0.4	0.03	N/A	N/A	0.2	0.05	N/A	0.12
184	Roughleaf dogwood	0.5	54.75	0.5	0.04	0.4	0.04	0.4	0.02	N/A	N/A	0.2	0.04	N/A	0.10
185	Swamp white oak	2.9	78.30	48.6	4.15	6.3	0.54	2.3	0.15	N/A	N/A	1.0	0.27	N/A	0.96
186	Sugar maple	2.2	97.88	12.5	1.07	1.6	0.13	1.9	0.13	N/A	N/A	0.8	0.24	N/A	0.50
187	Ohio buckeye	9.1	757.94	627.8	53.54	34.1	2.91	33.2	2.22	N/A	N/A	14.1	4.04	N/A	9.16
188	Swamp white oak	21.7	4,740.90	2,411.8	205.67	45.9	3.92	93.3	6.24	N/A	N/A	39.7	11.34	N/A	21.50
189	Thornless honeylocust	19.3	2,940.20	2,253.4	192.16	45.9	3.92	53.7	3.59	N/A	N/A	22.9	6.53	N/A	14.03
190	Swamp white oak	5.6	257.66	165.9	14.15	12.0	1.02	7.4	0.50	N/A	N/A	3.2	0.90	N/A	2.42
191	Swamp white oak	26.2	6,905.98	3,513.2	299.59	55.4	4.72	109.3	7.30	N/A	N/A	46.5	13.28	N/A	25.31
192	White ash	36.7	12,865.31	8,581.6	731.80	85.1	7.25	96.9	6.48	N/A	N/A	41.3	11.78	N/A	25.51

Benefits and Costs Summary of Individual Trees

Location: Cedar Rapids, Linn, Iowa, United States of America

Project: Coe Tree Archive, Series: West Campus, Year: 2022

Generated: 12/4/2022



xCoordinate	yCoordinate	Comments
-91.6580379631762	41.9876875338587	167
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-91.6586728825058	41.987400266319	172
-91.658872370249	41.9874496207186	173
-91.6589589181004	41.9876541456439	174
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-91.658634007073	41.9879489439213	176
-91.6584893615209	41.9878933835791	177
-91.6583960826203	41.9878717120004	179
-91.6583427146697	41.987840666239	180
-91.6582722745572	41.9877732950419	181
-91.6582172412444	41.9877208906821	182
-91.6582416955494	41.9876386702739	183
-91.6579651091299	41.9858635194052	184
-91.6588342686143	41.9880553298443	185
-91.6589142734115	41.9879356702464	186
-91.6590909597794	41.9878906836247	187
-91.6592102230744	41.9879166184736	188
-91.6591101010622	41.9877994490774	189
-91.6590798394719	41.9877981387346	190
-91.6590948047922	41.9877764383871	191
-91.6589223868857	41.9881224131883	192
-91.6590714010976	41.9882209414425	193
-91.659292438978	41.988126130479	195
-91.6594227272448	41.9881271799764	196
-91.6596145611125	41.9880479277077	197
-91.6592735888674	41.988264889104	198
-91.6594437411152	41.9882267310771	199
-91.6596344813946	41.9883091675545	200

Benefits and Costs Summary of Individual Trees

Location: Cedar Rapids, Linn, Iowa, United States of America

Project: Coe Tree Archive, Series: West Campus, Year: 2022

Generated: 12/4/2022



Tree ID	Species Name	DBH (in)	Replacement Value (\$)	Carbon Storage (lb)	Carbon Storage (\$)	Annual benefits									Total Annual Benefits (\$/yr)
						Gross Carbon Sequestration		Avoided Runoff		Carbon Avoided		Pollution Removal		Energy Savings	
						(lb/yr)	(\$/yr)	(ft³/yr)	(\$/yr)	(lb/yr)	(\$/yr)	(oz/yr)	(\$/yr)	(\$/yr)	
193	Freeman maple	7.1	513.86	392.0	33.43	25.1	2.14	19.5	1.31	N/A	N/A	8.3	2.37	N/A	5.82
194	Northern hackberry	20.8	4,356.70	297.3	25.35	5.1	0.43	118.4	7.92	N/A	N/A	50.5	14.40	N/A	22.75
195	Swamp white oak	27.6	7,662.53	3,898.1	332.41	58.3	4.97	111.4	7.45	N/A	N/A	47.5	13.54	N/A	25.97
196	Thornless honeylocust	24.1	4,509.55	3,910.9	333.50	63.8	5.44	59.8	4.00	N/A	N/A	25.5	7.27	N/A	16.71
197	Black oak	2.8	80.26	26.7	2.27	3.6	0.31	1.7	0.12	N/A	N/A	0.7	0.21	N/A	0.64
198	Swamp white oak	5.4	239.58	154.7	13.19	11.6	0.99	6.9	0.46	N/A	N/A	2.9	0.84	N/A	2.28
199	White ash	21.6	4,697.40	2,435.2	207.66	42.6	3.63	83.8	5.60	N/A	N/A	35.7	10.19	N/A	19.42
200	Kentucky Coffee tree	7.1	513.14	201.6	17.19	10.7	0.91	10.2	0.68	N/A	N/A	4.4	1.24	N/A	2.84
201	American basswood	2.6	58.73	9.5	0.81	1.4	0.12	2.1	0.14	N/A	N/A	0.9	0.26	N/A	0.52
202	Kentucky Coffee tree	0.6	54.75	1.7	0.14	0.7	0.06	0.4	0.03	N/A	N/A	0.2	0.05	N/A	0.14
203	White oak	3.3	111.84	24.0	2.05	2.1	0.18	3.2	0.22	N/A	N/A	1.4	0.39	N/A	0.79
204	Kentucky Coffee tree	3.4	66.41	38.3	3.26	4.0	0.34	2.6	0.18	N/A	N/A	1.1	0.32	N/A	0.83
205	Thornless honeylocust	22.7	4,015.96	3,369.6	287.34	58.7	5.00	59.1	3.95	N/A	N/A	25.2	7.18	N/A	16.13
206	Thornless honeylocust	19.4	2,969.36	2,282.4	194.63	46.3	3.95	53.9	3.60	N/A	N/A	23.0	6.55	N/A	14.11
207	Kentucky Coffee tree	2.9	54.75	27.3	2.32	3.2	0.28	2.0	0.14	N/A	N/A	0.9	0.25	N/A	0.66
208	Black oak	3.1	80.93	33.8	2.88	4.1	0.35	2.2	0.14	N/A	N/A	0.9	0.26	N/A	0.76
209	Swamp white oak	3.0	78.30	51.6	4.40	6.5	0.56	2.4	0.16	N/A	N/A	1.0	0.29	N/A	1.00
210	Swamp white oak	3.4	94.98	64.7	5.52	7.4	0.63	2.9	0.19	N/A	N/A	1.2	0.35	N/A	1.17
211	Swamp white oak	2.9	78.30	48.6	4.15	6.3	0.54	2.3	0.15	N/A	N/A	1.0	0.27	N/A	0.96
212	Northern red oak	2.9	78.30	18.4	1.57	2.5	0.22	3.1	0.21	N/A	N/A	1.3	0.38	N/A	0.80
213	Northern red oak	3.5	100.65	29.1	2.48	3.3	0.28	4.5	0.30	N/A	N/A	1.9	0.54	N/A	1.13
214	Sugar maple	10.7	1,325.50	526.9	44.93	12.9	1.10	34.4	2.30	N/A	N/A	14.7	4.19	N/A	7.58
215	Kentucky Coffee tree	3.3	62.56	35.9	3.06	3.8	0.32	2.5	0.17	N/A	N/A	1.1	0.30	N/A	0.79
216	Tulip tree	0.5	78.30	0.2	0.02	0.2	0.02	0.5	0.03	N/A	N/A	0.2	0.06	N/A	0.10
217	Swamp white oak	2.0	78.30	26.1	2.23	4.4	0.38	1.4	0.09	N/A	N/A	0.6	0.17	N/A	0.63
218	Kentucky Coffee tree	2.6	54.75	21.7	1.85	2.8	0.24	1.7	0.11	N/A	N/A	0.7	0.21	N/A	0.57
219	Swamp white oak	3.9	124.97	83.4	7.11	8.4	0.72	3.7	0.24	N/A	N/A	1.6	0.45	N/A	1.41
220	Scots pine	23.8	5,700.64	1,612.8	137.53	28.6	2.44	61.8	4.13	N/A	N/A	26.3	7.51	N/A	14.08
221	White ash	21.4	4,611.02	2,382.0	203.12	42.0	3.58	83.7	5.60	N/A	N/A	35.7	10.18	N/A	19.36
222	Green ash	19.9	3,988.77	1,152.7	98.30	22.8	1.95	77.3	5.17	N/A	N/A	32.9	9.40	N/A	16.51
223	Thornless honeylocust	27.3	5,748.63	5,339.0	455.29	58.6	5.00	58.7	3.93	N/A	N/A	25.0	7.14	N/A	16.07
224	Scots pine	22.1	4,916.88	1,387.9	118.35	26.5	2.26	63.6	4.25	N/A	N/A	27.1	7.73	N/A	14.24

Benefits and Costs Summary of Individual Trees

Location: Cedar Rapids, Linn, Iowa, United States of America

Project: Coe Tree Archive, Series: West Campus, Year: 2022

Generated: 12/4/2022



xCoordinate	yCoordinate	Comments
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-91.659316039995	41.9887054135568	205
-91.6592039813889	41.9885922315552	206
-91.6591860057356	41.9884463763262	207
-91.6592018674025	41.9883389493947	208
-91.6594039160328	41.9888995479444	209
-91.6592675530593	41.988786031731	210
-91.659170370209	41.9886862738346	211
-91.6590805751916	41.98864500264	212
-91.658942380995	41.9886279592751	213
-91.6588114323	41.9886670374726	214
-91.6588058331741	41.9887777916483	215
-91.6586561855319	41.9888675581303	216
-91.6585467163861	41.9889259689257	217
-91.6584982117053	41.9890574365714	218
-91.6585942731682	41.9891584399014	219
-91.6590745931181	41.9896446785282	220
-91.6592359579727	41.989801801269	221
-91.6593000011517	41.9898568717324	222
-91.6594434836331	41.9898529586662	223
-91.6595568392687	41.9899680045541	224
-91.6596327248114	41.9899373737875	225
-91.6597217384193	41.9898877123749	226
-91.6598209248268	41.9898265235676	227
-91.6598593589195	41.9901370474433	229
-91.6576462794308	41.9880966200275	230
-91.6577647243877	41.9880884633978	231
-91.657638162333	41.9881883019836	232
-91.6577890707555	41.988162954771	233

Benefits and Costs Summary of Individual Trees

Location: Cedar Rapids, Linn, Iowa, United States of America

Project: Coe Tree Archive, Series: West Campus, Year: 2022

Generated: 12/4/2022



Tree ID	Species Name	DBH (in)	Replacement Value (\$)	Carbon Storage (lb)	Carbon Storage (\$)	Annual benefits									Total Annual Benefits (\$/yr)
						Gross Carbon Sequestration		Avoided Runoff		Carbon Avoided		Pollution Removal		Energy Savings	
						(lb/yr)	(\$/yr)	(ft³/yr)	(\$/yr)	(lb/yr)	(\$/yr)	(oz/yr)	(\$/yr)	(\$/yr)	
225	Thornless honeylocust	25.6	5,071.16	4,546.5	387.71	62.1	5.29	59.7	3.99	N/A	N/A	25.4	7.26	N/A	16.55
226	Washington hawthorn	1.0	54.75	1.3	0.11	0.5	0.05	0.3	0.02	N/A	N/A	0.1	0.04	N/A	0.10
227	Washington hawthorn	1.1	54.75	1.6	0.14	0.6	0.05	0.3	0.02	N/A	N/A	0.1	0.04	N/A	0.12
228	Washington hawthorn	1.1	54.75	1.6	0.14	0.6	0.05	0.3	0.02	N/A	N/A	0.1	0.04	N/A	0.12
229	Thornless honeylocust	24.1	4,509.55	3,910.9	333.50	63.8	5.44	59.8	4.00	N/A	N/A	25.5	7.27	N/A	16.71
230	Pin oak	22.2	4,961.37	2,218.0	189.14	41.3	3.52	112.4	7.52	N/A	N/A	47.9	13.67	N/A	24.71
231	Thornless honeylocust	22.7	4,015.96	3,369.6	287.34	58.7	5.00	59.1	3.95	N/A	N/A	25.2	7.18	N/A	16.13
232	Thornless honeylocust	23.3	4,223.88	3,595.5	306.61	61.0	5.21	59.5	3.98	N/A	N/A	25.3	7.23	N/A	16.41
233	Thornless honeylocust	25.8	5,148.60	4,635.7	395.32	61.7	5.27	59.7	3.99	N/A	N/A	25.4	7.25	N/A	16.51
234	Eastern red cedar	2.6	70.77	19.2	1.64	1.5	0.13	1.4	0.10	N/A	N/A	0.6	0.17	N/A	0.40
235	Eastern red cedar	2.8	70.77	22.5	1.92	1.7	0.14	1.6	0.11	N/A	N/A	0.7	0.20	N/A	0.45
236	Scots pine	17.9	3,229.41	902.3	76.94	21.2	1.81	62.0	4.15	N/A	N/A	26.4	7.54	N/A	13.50
237	Scots pine	16.3	2,679.77	743.1	63.37	19.2	1.63	58.0	3.88	N/A	N/A	24.7	7.06	N/A	12.57
238	Scots pine	19.2	3,713.85	1,042.0	88.86	22.9	1.95	63.7	4.26	N/A	N/A	27.1	7.75	N/A	13.96
239	Star magnolia	5.4	167.52	94.3	8.04	4.7	0.40	8.0	0.54	N/A	N/A	3.4	0.97	N/A	1.91
240	Thornless honeylocust	26.9	5,585.31	5,145.5	438.79	59.6	5.08	59.1	3.95	N/A	N/A	25.2	7.18	N/A	16.21
241	Northern red oak	1.3	78.30	2.6	0.22	0.8	0.07	0.9	0.06	N/A	N/A	0.4	0.10	N/A	0.23
242	Black oak	32.2	10,447.97	8,298.4	707.65	96.0	8.19	78.3	5.23	N/A	N/A	33.3	9.52	N/A	22.94
243	Scots pine	15.2	2,331.73	642.0	54.75	17.7	1.51	54.0	3.61	N/A	N/A	23.0	6.57	N/A	11.70
244	Scots pine	16.5	2,745.67	762.3	65.00	19.4	1.66	58.7	3.92	N/A	N/A	25.0	7.13	N/A	12.71
245	Scots pine	13.3	1,787.83	483.6	41.24	15.3	1.30	45.0	3.01	N/A	N/A	19.2	5.47	N/A	9.78
246	Scots pine	8.3	703.02	171.5	14.63	8.8	0.75	17.0	1.13	N/A	N/A	7.2	2.06	N/A	3.95
247	Scots pine	13.8	1,923.93	523.3	44.62	15.9	1.36	47.6	3.18	N/A	N/A	20.3	5.79	N/A	10.33
248	Swamp white oak	2.6	78.30	40.2	3.43	5.7	0.49	1.9	0.13	N/A	N/A	0.8	0.23	N/A	0.85
249	Eastern white pine	26.6	7,118.12	1,866.6	159.17	34.1	2.91	104.6	6.99	N/A	N/A	44.5	12.71	N/A	22.62
250	Eastern white pine	19.8	3,948.89	925.7	78.94	22.5	1.92	74.4	4.98	N/A	N/A	31.7	9.05	N/A	15.94
251	Scots pine	17.7	3,157.89	881.6	75.18	21.0	1.79	61.6	4.12	N/A	N/A	26.3	7.50	N/A	13.40
252	Scots pine	7.8	622.17	149.2	12.72	8.2	0.70	14.6	0.98	N/A	N/A	6.2	1.78	N/A	3.46
253	Scots pine	12.7	1,631.13	437.9	37.34	14.5	1.23	41.7	2.79	N/A	N/A	17.8	5.07	N/A	9.09
254	Washington hawthorn	7.1	513.14	151.7	12.94	8.4	0.72	4.3	0.28	N/A	N/A	1.8	0.52	N/A	1.52
255	American basswood	1.6	58.73	3.0	0.26	0.8	0.06	1.2	0.08	N/A	N/A	0.5	0.15	N/A	0.29
256	Green ash	22.3	5,006.07	1,464.5	124.88	26.1	2.22	83.8	5.60	N/A	N/A	35.7	10.19	N/A	18.01

Benefits and Costs Summary of Individual Trees

Location: Cedar Rapids, Linn, Iowa, United States of America

Project: Coe Tree Archive, Series: West Campus, Year: 2022

Generated: 12/4/2022



xCoordinate	yCoordinate	Comments
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-91.6582242168025	41.9887731431085	238
-91.6586162284755	41.9885969246829	240
-91.6588932931043	41.9885166136027	241
-91.6586590877154	41.9883187009687	242
-91.658527593338	41.988130480849	247
-91.6584230230437	41.9879991567829	249
-91.6583929255762	41.9880135453292	250
-91.6582666013677	41.9879052098822	252
-91.6582181668663	41.9878916874212	253
-91.6581601258983	41.9878977902261	254
-91.6580982418187	41.9879343440465	255
-91.6580605332879	41.9879871474797	256
-91.6581751232333	41.9875165929782	257
-91.6587955920088	41.9871837698763	258
-91.6589627315567	41.9872472623781	259
-91.6589168729241	41.9872158788373	260
-91.6589169067868	41.9871861471184	261
-91.6588933048005	41.9871537280899	262
-91.6588650748272	41.9871230022865	263
-91.6588308299191	41.9870924800802	264
-91.6591334184731	41.9870224724454	265
-91.6592035325862	41.9870721303475	266
-91.6592100182963	41.9871172891759	267
-91.6593183061327	41.9871840005422	268
-91.6593609595784	41.9872138516391	269
-91.6592262641189	41.9872739890777	270
-91.659152331773	41.9872665702901	271
-91.6588488840153	41.9872688979072	272

Benefits and Costs Summary of Individual Trees

Location: Cedar Rapids, Linn, Iowa, United States of America

Project: Coe Tree Archive, Series: West Campus, Year: 2022

Generated: 12/4/2022



Tree ID	Species Name	DBH (in)	Replacement Value (\$)	Carbon Storage (lb)	Carbon Storage (\$)	Annual benefits									Total Annual Benefits (\$/yr)
						Gross Carbon Sequestration		Avoided Runoff		Carbon Avoided		Pollution Removal		Energy Savings	
						(lb/yr)	(\$/yr)	(ft³/yr)	(\$/yr)	(lb/yr)	(\$/yr)	(oz/yr)	(\$/yr)	(\$/yr)	
257	Scots pine	16.8	2,846.01	791.3	67.48	19.8	1.69	59.5	3.98	N/A	N/A	25.4	7.24	N/A	12.90
258	Northern red oak	18.0	3,265.47	1,552.9	132.43	33.4	2.84	70.8	4.74	N/A	N/A	30.2	8.61	N/A	16.19
259	Scots pine	9.6	936.76	237.3	20.23	10.5	0.89	23.8	1.59	N/A	N/A	10.1	2.89	N/A	5.37
260	Scots pine	11.5	1,339.44	353.1	30.11	12.9	1.10	34.8	2.32	N/A	N/A	14.8	4.23	N/A	7.65
261	Scots pine	13.9	1,951.75	531.4	45.31	16.0	1.37	48.1	3.22	N/A	N/A	20.5	5.85	N/A	10.43
262	Ginkgo	1.0	97.88	0.4	0.04	0.1	0.01	0.5	0.04	N/A	N/A	0.2	0.06	N/A	0.11
263	Northern hackberry	17.0	2,913.91	210.4	17.94	4.4	0.37	80.5	5.38	N/A	N/A	34.3	9.79	N/A	15.54
264	Tulip tree	1.3	78.30	2.0	0.17	0.9	0.08	0.8	0.05	N/A	N/A	0.3	0.10	N/A	0.23
265	Black oak	3.8	121.61	54.2	4.62	5.4	0.46	3.3	0.22	N/A	N/A	1.4	0.41	N/A	1.09
266	Sugar maple	3.6	133.10	40.7	3.47	3.0	0.26	5.3	0.35	N/A	N/A	2.3	0.64	N/A	1.26
267	Scots pine	17.3	3,017.27	840.9	71.71	20.5	1.74	60.8	4.06	N/A	N/A	25.9	7.39	N/A	13.20
268	Prairie crabapple	11.9	1,153.67	629.9	53.71	20.7	1.76	15.3	1.02	N/A	N/A	6.5	1.86	N/A	4.65
269	Prairie crabapple	11.7	1,120.52	604.3	51.53	20.2	1.72	14.8	0.99	N/A	N/A	6.3	1.80	N/A	4.52
270	Scots pine	16.9	2,879.86	801.1	68.32	19.9	1.70	59.8	4.00	N/A	N/A	25.5	7.27	N/A	12.97
271	Blue spruce	2.6	97.88	18.2	1.55	1.4	0.12	1.2	0.08	N/A	N/A	0.5	0.15	N/A	0.34
272	Blue spruce	2.5	97.88	16.9	1.44	1.3	0.11	1.1	0.08	N/A	N/A	0.5	0.14	N/A	0.32
273	Blue spruce	2.8	97.88	21.0	1.79	1.5	0.13	1.3	0.09	N/A	N/A	0.6	0.16	N/A	0.38
274	Blue spruce	2.6	97.88	18.2	1.55	1.4	0.12	1.2	0.08	N/A	N/A	0.5	0.15	N/A	0.34
275	Blue spruce	2.6	97.88	18.2	1.55	1.4	0.12	1.2	0.08	N/A	N/A	0.5	0.15	N/A	0.34
276	Thornless honeylocust	16.3	2,135.64	1,486.1	126.73	35.7	3.04	44.7	2.99	N/A	N/A	19.0	5.43	N/A	11.46
277	Blue spruce	2.8	97.88	21.0	1.79	1.5	0.13	1.3	0.09	N/A	N/A	0.6	0.16	N/A	0.38
278	Blue spruce	3.0	97.88	24.0	2.04	1.6	0.14	1.5	0.10	N/A	N/A	0.6	0.18	N/A	0.42
279	Blue spruce	2.8	97.88	21.0	1.79	1.5	0.13	1.3	0.09	N/A	N/A	0.6	0.16	N/A	0.38
280	Prairie crabapple	4.8	132.36	68.3	5.82	5.6	0.48	3.3	0.22	N/A	N/A	1.4	0.40	N/A	1.10
281	Thornless honeylocust	16.3	2,135.64	1,486.1	126.73	35.7	3.04	44.7	2.99	N/A	N/A	19.0	5.43	N/A	11.46
282	Roughleaf dogwood	5.4	167.52	148.3	12.65	10.2	0.87	4.0	0.27	N/A	N/A	1.7	0.49	N/A	1.62
283	Eastern red cedar	1.4	70.77	5.4	0.46	0.7	0.06	0.6	0.04	N/A	N/A	0.3	0.07	N/A	0.18
284	Blue spruce	2.9	97.88	22.4	1.91	1.6	0.13	1.4	0.09	N/A	N/A	0.6	0.17	N/A	0.40
285	Eastern red cedar	1.5	70.77	6.2	0.53	0.8	0.07	0.7	0.04	N/A	N/A	0.3	0.08	N/A	0.19
286	Eastern red cedar	1.4	70.77	5.4	0.46	0.7	0.06	0.6	0.04	N/A	N/A	0.3	0.07	N/A	0.18
287	Eastern red cedar	1.3	70.77	4.7	0.40	0.7	0.06	0.6	0.04	N/A	N/A	0.2	0.07	N/A	0.16
288	Eastern red cedar	1.4	70.77	5.4	0.46	0.7	0.06	0.6	0.04	N/A	N/A	0.3	0.07	N/A	0.18

Benefits and Costs Summary of Individual Trees

Location: Cedar Rapids, Linn, Iowa, United States of America

Project: Coe Tree Archive, Series: West Campus, Year: 2022

Generated: 12/4/2022



xCoordinate	yCoordinate	Comments
-91.6589774115297	41.9873113242648	275
-91.6589651917509	41.9873658674466	276
-91.6590325423448	41.9873404305054	277
-91.6590564618953	41.9873753528733	278
-91.6590457592739	41.9874071727639	279
-91.6591777533192	41.9874202567232	280
-91.6592846218957	41.9875416808638	281
-91.6592117556533	41.9876956011736	283
-91.6592921632833	41.9877758379245	284
-91.6595125544992	41.9876092750708	285
-91.6596148535573	41.9874533780174	286
-91.659714096961	41.9873566633202	287
-91.6595709012179	41.9871645490316	288
-91.6594963389151	41.9871440457865	289
-91.6601545960264	41.9881716304872	290
-91.6601411177192	41.9882321562494	291
-91.66013213425	41.9882857939732	292
-91.6601236519185	41.9883414722702	293
-91.6601105342583	41.988398146947	294
-91.6604521778259	41.9884322839102	295
-91.6600136151319	41.9883890402054	296
-91.6599709550879	41.9883506667771	297
-91.6599289946393	41.9883133412605	298
-91.6599064632618	41.9882557226314	299
-91.6599914822563	41.9882310491564	300
-91.6596945128607	41.9882224474541	301
-91.6600217066741	41.9885105255574	302
-91.66002364586	41.9884877230619	303
-91.6600266788153	41.9884661687356	304
-91.6600107120392	41.9884451584157	305
-91.6599940072287	41.9884302256327	306
-91.6599777323435	41.9884165139087	307

Benefits and Costs Summary of Individual Trees

Location: Cedar Rapids, Linn, Iowa, United States of America

Project: Coe Tree Archive, Series: West Campus, Year: 2022

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Tree ID	Species Name	DBH (in)	Replacement Value (\$)	Carbon Storage (lb)	Carbon Storage (\$)	Annual benefits									Total Annual Benefits (\$/yr)
						Gross Carbon Sequestration		Avoided Runoff		Carbon Avoided		Pollution Removal		Energy Savings	
						(lb/yr)	(\$/yr)	(ft³/yr)	(\$/yr)	(lb/yr)	(\$/yr)	(oz/yr)	(\$/yr)	(\$/yr)	
289	Swamp white oak	2.6	78.30	40.2	3.43	5.7	0.49	1.9	0.13	N/A	N/A	0.8	0.23	N/A	0.85
290	Eastern red cedar	1.4	70.77	5.4	0.46	0.7	0.06	0.6	0.04	N/A	N/A	0.3	0.07	N/A	0.18
291	Eastern red cedar	1.5	70.77	6.2	0.53	0.8	0.07	0.7	0.04	N/A	N/A	0.3	0.08	N/A	0.19
292	Blue spruce	2.9	97.88	22.4	1.91	1.6	0.13	1.4	0.09	N/A	N/A	0.6	0.17	N/A	0.40
293	Eastern red cedar	1.5	70.77	6.2	0.53	0.8	0.07	0.7	0.04	N/A	N/A	0.3	0.08	N/A	0.19
294	Eastern red cedar	1.4	70.77	5.4	0.46	0.7	0.06	0.6	0.04	N/A	N/A	0.3	0.07	N/A	0.18
295	Eastern red cedar	1.4	70.77	5.4	0.46	0.7	0.06	0.6	0.04	N/A	N/A	0.3	0.07	N/A	0.18
296	Eastern red cedar	1.3	70.77	4.7	0.40	0.7	0.06	0.6	0.04	N/A	N/A	0.2	0.07	N/A	0.16
297	Eastern red cedar	1.4	70.77	5.4	0.46	0.7	0.06	0.6	0.04	N/A	N/A	0.3	0.07	N/A	0.18
298	Thornless honeylocust	15.0	1,829.11	1,212.2	103.37	31.5	2.69	39.8	2.66	N/A	N/A	17.0	4.84	N/A	10.19
299	Norway maple	7.5	576.06	221.2	18.87	13.6	1.16	10.1	0.67	N/A	N/A	4.3	1.23	N/A	3.06
300	serviceberry spp	0.9	54.75	1.9	0.16	0.9	0.08	0.3	0.02	N/A	N/A	0.1	0.04	N/A	0.14
Total			756,346	395,803	33,752	6,066	517	11,772	787	N/A	N/A	5,014	1,431	N/A	2,735

Carbon storage and gross carbon sequestration value is calculated based on the price of \$0.08528 per pound.

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 42.7 inches of total annual precipitation. Eco will always use the hourly measurements that have the greatest total rainfall or user-submitted rainfall if provided.

Energy saving value is calculated based on the prices of \$127.40 per MWH and \$9.25 per MBTU. Trees less than or equal to 10ft/3m tall or further than 60ft/18m away from buildings do not provide energy benefits to nearby buildings.

Pollution removal value is calculated based on the prices of \$0.72 per pound (CO), \$1.42 per pound (O3), \$0.21 per pound (NO2), \$0.09 per pound (SO2), \$76.00 per pound (PM2.5), \$3.39 per pound (PM10*).

Replacement 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.

Benefits and Costs Summary of Individual Trees

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Project: Coe Tree Archive, Series: West Campus, Year: 2022

Generated: 12/4/2022



xCoordinate	yCoordinate	Comments
-91.6599621812113	41.988404522187	308
-91.6599428794085	41.9883893054734	309
-91.6599197524494	41.9883747833751	310
-91.6598948827431	41.9883802689447	311
-91.6598954055345	41.9883571264574	312
-91.6598812548739	41.9883395801186	313
-91.6598607763852	41.9883273556525	314
-91.6598452584902	41.98830533136	315
-91.6598204707036	41.9882816939369	316
-91.6576397732805	41.9880156908229	317
-91.6577422127011	41.9879923730212	318
-91.6563254317644	41.9866207425264	319