

REVISED Tree Valuation Formulas 11/1/2022

Size (DBH)	Current ordinance		Administration proposal		Cambridge		City councilors' proposal		ANNUAL benefits example (Northern red oak) Arbor Day Foundation National Tree Benefit Calculator		Cost of Lost Benefits until Replacement Tree Matures (30 years)*		
	Payment in Lieu	Factor	Payment in Lieu	Factor	Category	Factor	Category	Factor	Category	CO2 reduction (Lbs)		Stormwater intercepted (gallons)	Energy (kWh)
2	\$400	1	\$560	1	Protected	1	\$5,100	\$41	\$79	26	106	5	\$2,618
3	\$600	1	\$840	1	Protected	1	\$6,800	\$92	\$177	54	221	11	\$3,184
4	\$800	1	\$1,120	1	Protected	1	\$8,500	\$163	\$314	82	335	17	\$3,750
5	\$1,000	1	\$1,400	1	Protected	1	\$10,200	\$255	\$491	116	461	24	\$4,387
6	\$1,200	1	\$1,680	1	Protected	1	\$11,900	\$367	\$707	157	597	33	\$5,095
8	\$1,600	1	\$2,240	1	Protected	1	\$16,000	\$653	\$1,256	239	869	51	\$6,881
10	\$2,000	1	\$2,800	1	Protected	1	\$18,500	\$1,021	\$1,963	333	1,164	70	\$7,996
12	\$2,400	1	\$3,360	1	Protected	1	\$21,000	\$1,470	\$2,826	439	1,482	93	\$9,411
14	\$2,800	1	\$3,920	1	Protected	1	\$23,600	\$2,000	\$3,847	544	1,799	115	\$10,826
16	\$3,200	1	\$4,480	1	Protected	1	\$26,400	\$2,612	\$5,024	634	2,135	131	\$12,100
17	\$3,400	1	\$4,760	1	Protected	1	\$27,800	\$2,949	\$5,672	671	2,312	136	\$12,595
18	\$3,600	1	\$5,040	1	Protected	1	\$29,200	\$3,306	\$6,359	709	2,490	140	\$13,161
20	\$4,000	1	\$5,600	1	Protected	1	\$31,600	\$4,082	\$7,850	784	2,844	150	\$14,294
22	\$4,400	1	\$6,160	1	Protected	1	\$34,000	\$4,939	\$9,499	869	3,214	162	\$15,355
24	\$4,800	1	\$6,720	1	Protected	1	\$36,400	\$5,878	\$11,304	963	3,599	175	\$16,417
25	\$5,000	1.5	\$7,500	1.5	Significant	1	\$20,400	\$6,378	\$12,286	1,010	4,176	182	\$16,983
27	\$5,400	1.5	\$8,100	1.5	Significant	1	\$22,950	\$7,439	\$14,307	1,104	4,587	196	\$18,040
29	\$5,800	1.5	\$8,700	1.5	Significant	1	\$25,500	\$8,582	\$16,505	1,200	5,000	208	\$19,196
30	\$6,000	1.5	\$9,000	1.5	Significant	1	\$27,000	\$9,185	\$17,663	1,249	5,417	215	\$20,351
31	\$6,200	1.5	\$9,300	1.5	Significant	1	\$28,500	\$9,807	\$18,860	1,297	5,847	221	\$21,506
33	\$6,600	1.5	\$9,900	1.5	Significant	1	\$30,600	\$11,113	\$21,372	1,393	6,285	233	\$22,761
35	\$7,000	1.5	\$10,500	1.5	Significant	1	\$32,700	\$12,501	\$24,041	1,489	6,723	244	\$24,016
37	\$7,400	1.5	\$11,100	1.5	Significant	1	\$34,800	\$13,971	\$26,867	1,586	7,161	255	\$25,271
39	\$7,800	1.5	\$11,700	1.5	Significant	1	\$36,900	\$15,522	\$29,850	1,682	7,606	266	\$26,526
40	\$8,000	2	\$16,000	2	Landmark	1.5	\$51,000	\$16,328	\$31,400	1,731	8,053	271	\$23,988
42	\$8,400	2	\$16,800	2	Landmark	1.5	\$53,550	\$18,002	\$34,619	1,830	8,500	281	\$24,837
44	\$8,800	2	\$17,600	2	Landmark	1.5	\$56,100	\$19,757	\$37,994	1,929	9,000	291	\$25,615
45	\$9,000	2	\$18,000	2	Landmark	1.5	\$57,750	\$20,665	\$39,741	1,977	9,500	296	\$26,404
46	\$9,200	2	\$18,400	2	Landmark	1.5	\$59,400	\$21,594	\$41,527				
48	\$9,600	2	\$19,200	2	Landmark	1.5	\$61,200	\$23,512	\$45,216				
50	\$10,000	2	\$20,000	2	Landmark	1.5	\$63,000	\$25,513	\$49,063				
52	\$10,400	2	\$20,800	2	Landmark	1.5	\$64,800	\$27,594	\$53,066				
54	\$10,800	2	\$21,600	2	Landmark	1.5	\$66,600	\$29,758	\$57,227				
55	\$11,000	3	\$33,000	3	Legacy	1.5	\$70,125	\$30,870	\$59,366				
57	\$11,400	3	\$34,200	3	Legacy	1.5	\$72,675	\$33,156	\$63,762				
59	\$11,800	3	\$35,400	3	Legacy	1.5	\$75,225	\$35,524	\$68,315				
61	\$12,200	3	\$36,600	3	Legacy	1.5	\$77,775	\$37,973	\$73,025				
63	\$12,600	3	\$37,800	3	Legacy	1.5	\$80,325	\$40,504	\$77,892				
65	\$13,000	3	\$39,000	3	Legacy	1.5	\$82,875	\$43,116	\$82,916				

*Does NOT include costs from lost tree & its disposal: carbon emissions, air pollution, energy usage, etc.

The Arbor Day Foundation's National Tree Benefit Calculator only provides information for trees up to 45 DBH