

Tree ages and embedded costs of unmitigated urban tree removal

Tree Species	Approximate tree age¹ when it reaches a dbh of...			Value² of services lost if tree is removed without mitigation, where the dbh of the removed tree was...		
	20"	30"	40"	20"	30"	40"
<i>American elm</i>	25	35	50	\$1,740	\$2,270	\$2,530
<i>Ponderosa pine</i>	35	50	70	\$1,470	\$2,040	\$2,280
<i>Douglas-fir</i>	35	50	70	\$1,460	\$2,020	\$1,780
<i>White oak</i>	55	95	135	\$1,300	\$2,090	\$2,260
<i>Western hemlock</i>	55	90	120	\$1,200	\$1,920	\$1,960
<i>Alaska cedar</i>	55	100	--	\$1,110	\$1,700	\$1,920
<i>London planetree</i>	25	35	50	\$1,140	\$1,440	\$1,560
<i>Pacific dogwood</i>	35	50	70	\$1,040	\$1,270	\$1,120
<i>Common pear</i>	25	40	50	\$900	\$1,030	\$1,340
<i>Norway maple</i>	30	--	--	\$940	\$1,180	--
<i>European white birch</i>	25	40	55	\$590	\$660	\$740
<i>Oregon Ash</i>	40	--	--	\$760	\$950	--
<i>Red maple</i>	30	--	--	\$830	\$920	--
<i>Common crabapple</i>	35	50	70	\$230	\$290	\$360
<i>Hornbeam, fastigiata</i>	40	70	95	\$220	\$260	\$310
<i>Yoshino cherry</i>	--	--	--	\$210	--	--
<i>Common plum</i>	--	--	--	\$90	--	--
<i>Median of these species</i>	35	50	70	\$940	\$1,270	\$1,670

1. Age (rounded to nearest multiple of 5 years) where the species, as modeled in iTree, achieved the diameter specified. "--" indicates the species did not grow to the specified diameter within 150 years of growth in iTree.
2. Value is present value, calculated using a 5% annual discount rate for future services, and includes the stormwater, carbon storage, and air quality services that would have been provided by that tree if it had continued to stand for another 20 years.