



Total Projected Benefits (2018-2038) - Over the next 20 years, based on forecasted tree growth, i-Tree Design projects total benefits worth \$7,646:

- \$2,509 of stormwater runoff savings by intercepting 313,654 gallons of rainfall
- \$255 of air quality improvement savings by absorbing and intercepting pollutants such as ozone, sulfur dioxide, nitrogen dioxide, and particulate matter; reducing energy production needs; and lowering air temperature
- \$724 of savings by reducing 40,940 lbs. of atmospheric carbon dioxide through CO₂ sequestration and decreased energy production needs and emissions
- \$1,156 of summer energy savings by direct shading and air cooling effect through evapotranspiration
- \$3,002 of winter energy savings by slowing down winds and reducing home heat loss

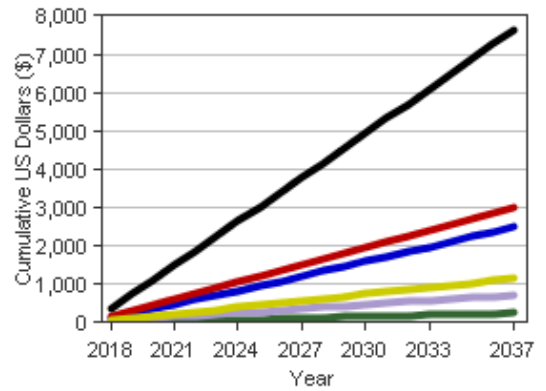


Figure 1. Tree benefit forecast for 20 years

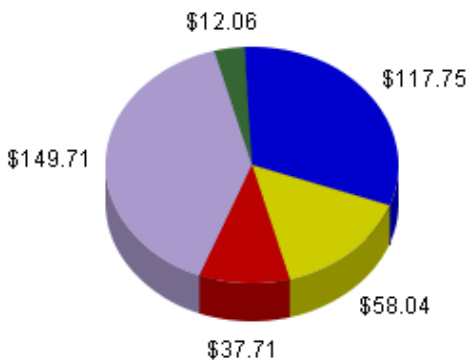


Figure 2. Annual tree benefits for 2018

Current Year - For 2018, i-Tree Design estimates annual tree benefits of \$375.27:

- \$117.75 of stormwater runoff savings by intercepting 14,721 gallons of rainfall
- \$12.06 of air quality improvement savings
- \$37.71 of carbon dioxide reduction savings
- \$58.04 of summer energy savings
- \$149.71 of winter energy savings

A cooperative initiative between:





Future Year - In the year 2038, based on forecasted tree growth, i-Tree Design projects annual benefits of \$389.62:

- \$133.40 of stormwater runoff savings by intercepting 16,672 gallons of rainfall
- \$13.48 of air quality improvement savings
- \$34.78 of carbon dioxide reduction savings
- \$57.56 of summer energy savings
- \$150.40 of winter energy savings

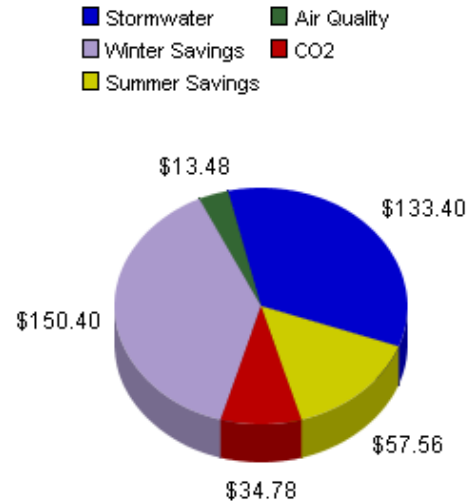


Figure 3. Annual tree benefits for the year 2038

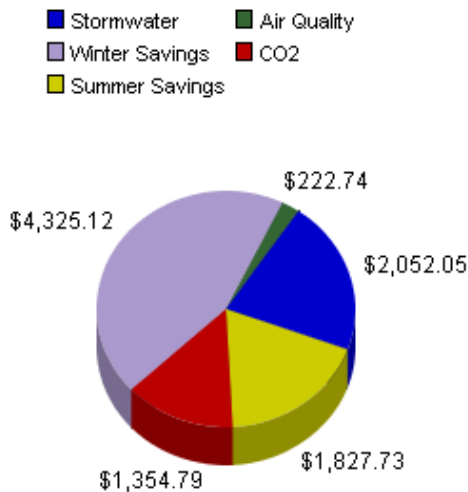


Figure 4. Total benefits to date

Total Benefits to Date - Over the life of the tree(s) so far, i-Tree Design calculates total benefits worth \$9,782:

- \$2,052 of stormwater runoff savings by intercepting 256,520 gallons of rainfall
- \$223 of air quality improvement savings
- \$1,355 of carbon dioxide reduction savings
- \$1,828 of summer energy savings
- \$4,325 of winter energy savings

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Individual Tree Benefits							
Tree	DBH (in)	Condition	Location to Structure	Benefits			
				Current Year (2018)	Future Year (2038)	Projected Total (2018-2038)	Total to Date
1. Oak	24	Fair	North (28 ft)	\$77.18	\$79.88	\$1,570	\$2,053
2. Oak	24	Fair	North (27 ft)	\$77.17	\$79.87	\$1,570	\$2,053
3. Oak	24	Fair	North (26 ft)	\$78.83	\$81.79	\$1,606	\$2,070
4. Oak	24	Fair	East (31 ft)	\$70.89	\$73.85	\$1,447	\$1,802
5. Oak	24	Fair	East (30 ft)	\$71.21	\$74.22	\$1,454	\$1,805
Total				\$375.27	\$389.62	\$7,646	\$9,782

DBH: "diameter at breast height" is the standard measurement of tree trunk width at 4.5 feet (1.5 meters) above the ground.

A cooperative initiative between:

