Total Projected Benefits (2019-2039) - Over the next 20 years, based on forecasted tree growth, i-Tree Design projects total benefits worth $28,830:

- $22,925 of stormwater runoff savings by intercepting 2,315,620 gallons of rainfall
- $480 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
- $3,782 of savings by reducing 162,616 lbs. of atmospheric carbon dioxide through CO₂ sequestration and decreased energy production needs and emissions
- $1,934 of summer energy savings by direct shading and air cooling effect through evapotranspiration
- $-291 of winter energy savings by slowing down winds and reducing home heat loss

Current Year - For 2019, i-Tree Design estimates annual tree benefits of $1,094.03:

- $861.57 of stormwater runoff savings by intercepting 87,029 gallons of rainfall
- $18.59 of air quality improvement savings
- $143.24 of carbon dioxide reduction savings
- $86.24 of summer energy savings
- $-15.60 of winter energy savings

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Future Year - In the year 2039, based on forecasted tree growth, i-Tree Design projects annual benefits of $1,833.91:

- $1,478.36 of stormwater runoff savings by intercepting 149,329 gallons of rainfall
- $30.07 of air quality improvement savings
- $238.59 of carbon dioxide reduction savings
- $102.67 of summer energy savings
- $-15.79 of winter energy savings

![Figure 3. Annual tree benefits for the year 2039](image)

Total Benefits to Date - Over the life of the tree(s) so far, i-Tree Design calculates total benefits worth $24,966:

- $17,637 of stormwater runoff savings by intercepting 1,781,521 gallons of rainfall
- $419 of air quality improvement savings
- $3,446 of carbon dioxide reduction savings
- $3,266 of summer energy savings
- $199 of winter energy savings

![Figure 4. Total benefits to date](image)

A cooperative initiative between:
<table>
<thead>
<tr>
<th>Tree</th>
<th>DBH (in)</th>
<th>Condition</th>
<th>Location to Structure</th>
<th>Benefits</th>
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<td>(2019) Future</td>
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<td>$3,111 $1,121</td>
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<td>$3,111 $1,121</td>
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A cooperative initiative between:

http://www.itreetools.org
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<th>Tree Type</th>
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<th>Condition</th>
<th>Location (ft)</th>
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<th>DBH: $1,000</th>
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</table>

**Total**                        |           |            |               | $1,094.03  | $1,833.91  | $28,830    | $24,966     

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