



The Benefits of Trees

Bingham Farms values its trees. Before you consider removing trees from your property, please visit www.bingharmfarms.org and consult the Tree Ordinance (93.01-93.12 in the "code book" link), which regulates removal and replacement. Feel free to call the Village Office for additional information, 248-644-0044.

Trees can add value to your home, help cool your home and neighborhood, break the cold winds to lower your heating costs, and provide food for wildlife.

The Arbor Day Foundation compiled the following interesting details about the value of trees to a community (visit www.arborday.org).

- The net cooling effect of a young, healthy tree is equivalent to ten room-size air conditioners operating 20 hours a day. *U.S. Department of Agriculture*
- If you plant a tree today on the west side of your home, in 5 years your energy bills should be 3% less. In 15 years the savings will be nearly 12%. *Dr. E. Greg McPherson, Center for Urban Forest Research*
- A mature tree can often have an appraised value of between \$1,000 and \$10,000. *Council of Tree and Landscape Appraisers*
- Having large trees in yards along streets increases a home's value from 3 to 15 percent. *Wolf, Kathleen L, PhD, University of Washington (2007) City Trees and Property Values. Arborist News. 16, 4:34-36*
- In Portland, Oregon, street trees increase the value of homes by a total of \$1.1 billion, an average increase of \$7,020 for each house. *Donovan, G.H.; Butry, D.T. (2010). Trees in the City: Valuing Street Trees in Portland, Oregon. Landscape and Urban Planning 94:77-83*
- Landscaping, especially with trees, can increase property values as much as 20 percent. *Management Information Services/ICMA*
- One acre of forest absorbs six tons of carbon dioxide and puts out four tons of oxygen. This is enough to meet the annual needs of 18 people. *U.S. Department of Agriculture*
- Trees properly placed around buildings can reduce air conditioning needs by 30 percent and can save 20–50 percent in energy used for heating. *USDA Forest Service*





- There are about 60 to 200 million spaces along our city streets where trees could be planted. This translates to the potential to absorb 33 million more tons of CO₂ every year, and saving \$4 billion in energy costs. ***National Wildlife Federation***
- Trees can be a stimulus to economic development, attracting new business and tourism. Commercial retail areas are more attractive to shoppers, apartments rent more quickly, tenants stay longer, and space in a wooded setting is more valuable to sell or rent. ***The Arbor Day Foundation***
- Healthy, mature trees add an average of 10 percent to a property's value. ***USDA Forest Service***
- The planting of trees means improved water quality, resulting in less runoff and erosion. This allows more recharging of the ground water supply. Wooded areas help prevent the transport of sediment and chemicals into streams. ***USDA Forest Service***
- In laboratory research, visual exposure to settings with trees has produced significant recovery from stress within five minutes, as indicated by changes in blood pressure and muscle tension. ***Dr. Roger S. Ulrich Texas A&M University***
- Trees reduce stormwater runoff by capturing and storing rainfall (stormwater interception) in the canopy and releasing water into the atmosphere through evapotranspiration. In addition, tree roots and leaf litter create soil conditions that promote the infiltration of rainwater into the soil. This helps to replenish our groundwater supply and maintain streamflow during dry periods. ***Center for Watershed Protection, <https://www.cwp.org/reducing-stormwater-runoff/>***