**Northfield Public Tree Inventory: 2018**

**Total trees inventoried:** 412
Trees were geo-located, identified by genus, species, common name, diameter, height, spread, light exposure, condition and other properties. The project area includes primary streets in Northfield and Center Cemetery.

**Annual benefits**
Trees in the project inventory area provide over $45,000 in annual benefits.

**Implications:**
Lack of species diversity = vulnerability to disease
Maples in particular are vulnerable to climate change and Asian long-horned beetle, among other stressors.

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**Tree species**
Three tree species - all maple species - make up nearly 1/2 of all trees in the project area.

- 55% Sugar maple
- 19% Norway maple
- 16% Red maple
- 13% All others

**Implications:**
Lack of species diversity = vulnerability to disease
Maples in particular are vulnerable to climate change and Asian long-horned beetle, among other stressors.

**Maintenance**
About 10% of trees have immediate maintenance needs; a few are critical

**Implications:**
Deferred maintenance = more rapid decline
Towns that prioritize tree maintenance have tree populations that live longer and provide more benefits. Regular maintenance keeps minor issues from becoming critical issues.

**Condition**
Just over half of all trees inventoried are in good condition.

**Implications:**
Well-maintained trees = longer-lived trees
Regular maintenance can prolong tree life and help avoid costly tree removals.

**Diameter**
Only 5% of shade trees are less than 5" in diameter (young trees)**

**Implications:**
Greater size diversity = greater resilience
Diversity in tree size - and age - can mean less chance that large numbers of trees will die off simultaneously

**Structural value**
Calcinated based on the local cost of having to replace all trees inventoried with similar trees

$1.05 million

**Implied value:**
Estimated using iTree Eco: http://www.itreetools.org/

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*Estimates at breast height (DBH) measured around the trunk at about 4 1/2' from the ground
**Does not include small stature, ornamental trees

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Prepared for the Town of Northfield and the Northfield Highway Department