

Table 5.11.08.G. Prohibited (Invasive) Tree/Shrub Species

| Botanical Name | Common Name |
|--|--------------------|
| Acer Ginnala | Amur Maple |
| Elaeagnus Umbellata | Autumn Olive |
| Robinia Spp. | Black Locust |
| Acer Negundo | Box Elder |
| Rhamnus Cathartica | Common Buckthorn |
| Phragmites australis | Common Reed |
| Butomus umbellatus | Flowering Rush |
| Alliaria petiolata | Garlic Mustard |
| Polygonum sahalinensis (Fallopia sachalinensis) | Giant Knotweed |
| Rhamnus Frangula | Glossy Buckthorn |
| Berberis Thunbergii | Japanese Barberry |
| Fallopia japonica | Japanese Knotweed |
| Populus nigra var. italica | Lombardy Poplar |
| Rosa Multiflora | Multiflora Rose |
| Acer platanoides | Norway Maple |
| Lythrum salicaria | Purple Loosestrife |
| Elaeagnus Angustifolia | Russian Olive |
| Centaurea Biebersteinii | Spotted Knapweed |
| Ailanthus Altissima | Tree of Heaven |

Sec. 5.11.09. Minimum Tree Canopy.

- A. Purpose. The tree canopy requirements are designed to ensure a sufficient tree coverage to provide an attractive landscape that protects and enhances property values; that provides shade and visual relief, stormwater retention, air and water quality improvements, and buffering and screening from noise, lights and glare; and supports achievements of the City's forty (40) percent canopy goals and other goals contained in the City's Master Plan, Green Grand Rapids Plan, Sustainability Plan and Urban Forest Plan, and other applicable plans as may be adopted by the City.
- B. Applicability. The minimum tree canopy provision shall apply to each lot in its entirety, including driveways and shall include trees located within the public right-of-way. The most current City of Grand Rapids Urban Tree Canopy Analysis Map is recognized as the determinant of tree canopy coverage for the purposes of this Chapter. The following shall comply with minimum tree canopy coverage requirement.
 - 1. New development that necessitates Site Plan Review or a LUDS permit, including single-family homes as part of a multiple-lot development. Single-family attached, single-family detached, or two-family residential units on an individual, existing lot are not required to meet the provisions of this Section.

2. Existing development that necessitates site plan review or a LUDS permit, excepting Section 5.11.09.C. below.
 3. Any change to the use of a lot, building or structure per the provisions of Section 5.3.06. Nonconforming Site Elements.
- C. Canopy Distribution. The tree canopy shall be distributed throughout the site or lot, in parking lots, within the adjoining street rights-of-way, and within the side, front, and rear yards of the lot.
- D. Tree Credit. Where tree canopy is insufficient to meet the tree canopy provisions, credit may be given for proposed or recently planted trees. The expected square-foot contribution of each planted tree will be based on Table 5.11.09.D. Trees that have been planted within thirty-six (36) months of the date of the application for zoning approval and are in good, healthy condition shall be credited toward tree canopy coverage at maturity so long as sufficient soil volume has been provided and the tree species is on the approved list for planting.

| Table 5.11.09.D. Tree Canopy Credit | | | |
|--|--|---|-----------------------------|
| Canopy/Shade Tree | Minimum Plant Size (caliper inch) | Canopy Cover at Maturity (sq. ft.) | Crown Diameter (ft.) |
| Small | 1.5 | 400 | 25 |
| Medium | 2.5 | 900 | 35 |
| Large | 2.5 | 1,600 | 45 |

- E. Protecting Existing Canopy. Existing trees shall be conserved to the greatest extent possible. Where existing trees are to be retained to meet the Tree Canopy Requirements, those trees shall be protected as described in Section 5.11.10.
- F. Administrative Departures.
1. Tree canopy requirements may be modified subject to meeting one (1) of the following options.
 - a. Plant and maintain trees required to satisfy Tree Canopy provisions at another location agreed to by the City Forester; or
 - b. Payment in lieu to the Grand Rapids Tree Bank’s tree planting program for the purposes of preserving and increasing the community’s tree canopy is allowed where tree replacement is not possible on the site. The payment shall be based on an inch by inch basis of the caliper of the lost tree, at a rate per inch as determined by ordinance of the City Commission.
 2. Permanent planters, vegetated walls and green roofs that are accessible and safe for residential occupants may be used towards tree canopy calculations for mixed-income multiple family projects. These items shall be measured in square feet of surface area.
 3. A reduction of not more than thirty-three (33) percent of the required tree canopy listed in each applicable zone district for a parcel may be permitted for development projects.