

## City of Morden Approved Species List and Diversification Guidelines

Parks and Urban Forestry have developed the acceptable tree species list categorized by size at maturity, minimum spacing and planting location (Boulevard -BLVD, Park, Natural Area – Nat Area). The list may be updated as trial species are tested, new material becomes available, and climatic trends change.

It is the intention of the City to first plant from the Large Sized Tree list knowing that larger trees at maturity provide larger benefits to the community and the area in proximity to the tree.

All tree planting on City property must be approved by the City Forester and in all situations, minimum utility off-set distances must be adhered to.

	Species	Common Name	Spacing	BLVD	PARK	NAT AREA
Large Sized Trees  Soil Volume 34m <sup>3</sup>	<i>Picea glauca</i>	White Spruce	10 m	N	Y	Y
	<i>Abies balsamea</i>	Balsam Fir	10m	N	Y	Y
	<i>Pinus ponderosa</i>	Ponerosa Pine	10 m	N	Y	Y
	<i>Larix laricina</i>	Eastern Larch/Tamarack	10m	N	Y	Y
	<i>Acer saccharinum</i>	Silver Maple	10 m	Y	Y	Y
	<i>Tilia americana</i>	Basswood	10m	Y	Y	Y
	<i>Acer negundo</i>	Baron Maple	10 m	Y	Y	Y
	<i>Acer negundo</i>	Manitoba Maple	10m	N	Y	Y
	<i>Quercus macrocarpa</i>	Bur Oak	10 m	Y	Y	Y
	<i>Ulmus 'Morton Glossy'</i>	Triumph Elm	10m	Y	Y	Y
	<i>Populus deltoides</i>	Eastern Cottonwood	10 m	N	Y	Y
	<i>Populus tremuloides</i>	Trembling Aspen	10m	N	Y	Y
	<i>Populus XACW151</i>	Sundance Poplar	10 m	N	Y	Y

	Species	Common Name	Spacing	BLVD	PARK	NAT AREA
Medium Sized Trees  Soil Volume 22m <sup>3</sup>	<i>Aesculus A. glabra</i>	Ohio Buckeye	8m	N	Y	N
	<i>Celtis occidentalis</i>	Delta Hackberry	8m	Y	N	N
	<i>Betula platyphylla</i>	Dakota Pinnacle Birch	6m	Y	Y	N
	<i>Ostrya virginiana</i>	Ironwood	8m	Trial		
	<i>Juglans cinerea</i>	Butternut	8m	N	Y	Y
	<i>Juglans nigra</i>	Black Walnut	8m	N	Y	Y
	<i>Ulmus davidiana</i> var. Japonica	Discovery Elm	8m	Y	Y	N
	<i>Alnus hirsuta 'Harbin'</i>	Prairie Horizon Alder	8m	Y	Y	Y

	Species	Common Name	Spacing	BLVD	PARK	NAT AREA
Small Sized Tree  Soil Volume 11m <sup>3</sup>	<i>Cornus alternifolia</i>	Pagoda Dogwood	6m	N	Y	Y
	<i>Syringa reticulata</i>	Japanese Tree Lilac	6m	Y	N	N
	<i>Acer ginnala</i>	Amur Maple	6m	Y	Y	N
	<i>Acer tatarica</i>	Tatarian Maple	6m	Y	Y	N
	<i>Malus adstringens</i>	Gladiator Crab Apple	6m	Y	Y	N
	<i>Elaeagnus angustifolia</i>	Russian Olive	6m	N	Y	N
	<i>Malus spring snow</i>	Spring Snow Crab Apple	6m	Y	Y	N
	<i>Sorbus aucuparia</i>	Russian Mountain Ash	6m	N	Y	N

## **Tree Diversity Guidelines**

Having tree genera diversity within our Urban Forest will help to mitigate impacts from tree mortality, insect and disease epidemics and abiotic events (wind, ice storms, etc). The City of Morden, Urban Forest Management Plan (UFMP) states; *“There is a generally accepted practical method of procedure for managing species diversity. This method holds that municipalities should maintain densities under 30% for a single family, 20% for a single genus, and 10% for a single species (Lilly & Currid, 2010).”* The UFMP was adopted by council on January 22<sup>nd</sup>, 2018. Ash tree material is not permitted.

Parks and Urban Forestry tree inventory indicates that genus such as *Fraxinus* or Ash, comprise approximately 37% of the city owned tree population. This high percentage of Emerald Ash Borer susceptible trees poses the risk of having large impacts on the Urban Forest canopy and the associated benefits. Parks and Urban Forestry are now planning for both genus and species diversity planted now and into the future. Therefore, any trees planted on city property are required to follow these guidelines.

For all planting on City Property genus and species diversity shall consist of no more than 20% of a single genus within a planting project. A single genus shall not be planted adjacent and at a minimum of 1 out every 5 trees planted.

For example: Linden, Elm, Maple, Hackberry, Oak are acceptable and could be planted in the order as listed.

## **Tree Setbacks**

Where possible, trees shall be setback a minimum distance, measured from the tree trunk to inside curb along streets and boulevards and to the closest point of utilities or infrastructure.

Minimum linear distances from planting of trees/shrubs to selected above ground structures:

- Fire hydrants: 3 meters
- Hydro poles and above ground lines: 6 meters
- Manholes: 3 meters
- Stop Signs: 3 meters
- Light Standard: 4 meters
- Street intersections: 10 meters from edge of intersecting curb (see illustration)
- Alley/driveways/walkways: 4.5 meters from edge of curb and access point (see illustration)
- Walkways: 1 meter
- Road or Street Curb within a boulevard strip: 1.5m

