

Forestry Management: Approved Species List & Planting Conditions



The Town has established two types of species list to address the needs of different planting sites. The species lists are as follows: (1) modified environments (2) natural areas. There are a variety of trees that are suitable for both lists, those trees have an asterisk beside their binomial nomenclature. The species' list planting conditions vary in each list to accommodate information that is more relevant for the purpose of planting.

In each list, the attempt is to prioritize native species. Some native species have not been included in the list due to availability at local nurseries or vulnerability to disease and insect.

MODIFIED ENVIRONMENT SPECIES LIST

MODIFIED ENVIRONMENTS				
Binomial Nomenclature	Common Name	Size	Form	Comments
<i>Acer Campestre</i>	Hedge Maple	Medium	Rounded	Compact form, best on dry alkaline soil
<i>Acer x freemanii</i>	Freeman's Maple	Medium	Oval Rounded	
<i>Acer ginnala</i>	Amur Maple	Small	Rounded	Multi-stem compact form/tends to sucker/specify single stem form
<i>Acer nigrum</i>	Black Maple	Large	Oval	
<i>Acer pseudoplatanus</i>	Sycamore Maple	Large	Oval - Rounded	Very pollution and salt tolerant/cankers cause high maintenance
<i>Acer rubrum</i>	Red Maple	Medium	Oval- Rounded	Tolerates wet soil
<i>Aesculus flava or octandra</i>	Yellow Buckeye	Large		Tree has no leaf scorching in the summer
<i>Carpinus caroliniana</i>	Blue Beech	Medium	Rounded	Likes wet soil,
<i>Catalpa speciosa</i>	Northern Catalpa	Large	Pyramidal - Spreading	
<i>Celtis occidentalis</i>	Hackberry	Large	Vase	Requires pruning for general form/very tolerant

<i>Cladrastis lutea</i>	Yellowwood	Medium	Rounded	Few problems/use local seed sources or stock only/prune early
<i>Ginkgo biloba</i>	Maidenhair	Large	Pyramidal – Spreading	Tolerant for city conditions and pollution/ slow growing but very large a maturity/ virtually pest and disease free/open branch structure
<i>Gleditsia triacanthos</i>	Honeylocust	Medium	Spreading	Provides a filtered shade/susceptible to defoliation by leafhopper
<i>Gymnocladus dioica</i>	Kentucky Coffeetree	Large	Oval	Male variety only/open branch structure
<i>Liriodendron tulipifera</i>	Tulip Tree	Large	Rounded	Moist and well-drained soil/very large tree most appropriate for lawn areas
<i>Ostrya virginiana</i>	Ironwood	Medium	Oval	Mainly and understory tree
<i>Platanus x acerifolia</i>	London Plane-Tree	Large	Spreading	Frost cracks on trunk/attractive peeling bark/fruit can cause problems/very large at maturity
<i>Syringa reiculata</i>	Japanese Tree Lilac	Small	Rounded	Excellent, small specimen
<i>Tilia americana</i>	Basswood	Large		Prefers deep moist fertile soil/will grow on drier heavier soil/needs large space
<i>Tilia cordata</i>	Littleleaf Linden	Medium	Pyramidal	

NATURAL AREAS

The following are species recommended by the Upper Thames River Conservation Authority for the Upper Thames River watershed. The planting conditions for each species has been included. These species are adapted to the local climate and are more resilient than non-native species.

NATIVE TREES

Binomial Nomenclature	Common Name	Light Level	Soil Moisture	Soil Type
<i>Acer rubrum</i>	Red Maple	Part Sun	Wet to Moist	Variety
<i>Acer saccharinum</i>	Silver Maple	Sun	Wet to Moist	Rich

Acer saccharum ssp.nigrum	Black Maple	Shade	Moist	Rich floodplains
Acer saccharum ssp. saccharum	Sugar Maple	Part Sun to Shade	Moist	Rich, well-drained
Amelanchier arborea	Dony Serviceberry	Part Sun	Moist to Dry	Sandy, Rocky
Asiminia trilobal	Pawpaw	Shade	Wet to Moist	Rich
Betula alleghaniensis	Yellow Birch	Part Sun	Wet to Moist	Rich
Betula papyrifera	White Birch	Sun	Variety	Variety
Carpinus caroliniana	Blue Beech	Shade	Moist	Deep, Rich
Cary ovata	Shagbark Hickory	Full to Part Sun	Moist	Rich
Celtis occidentalis	Hackberry	Part Sun	Moist	Variety
Cornus alternifolia	Alternate-leaved Dogwood	Part Sun	Moist	Deep, Well-Drained
Cornus florida	Flowering Dogwood	Part Sun	Moist	Variety
Gymnocladus dioicus	Kentucky Coffee-tree	Part Sun	Moist	Deep, Rich
Juniperus virginiana	Eastern Red Cedar	Sun	Moist to Dry	Rocky, Sandy Soils
Larix laricina	Tamarack	Part Sun	Variety	Variety
Liriodendron tulipifera	Tulip Tree	Sun	Wet to Moist	Sand, sand loam, rich
Nyssa sylvatica	Black Gum	Part Sun	Wet	Rich
Ostryia virginiana	Hop-hornbeam or Ironwood	Shade	Moist	Well-drained
Platanus occidentalis	Sycamore	Part Sun	Wet to Moist	Rich, Poorly Drained
Pinus strobus	White Pine	Sun	Moist to Dry	Variety
Populus balsamifera	Balsam Poplar	Sun	Wet to Moist	Rich
Populus deltoids	Eastern Cottonwood	Sun	Moist	Rich
Populus grandidentata	Large-tooth Aspen Sun	Sun	Moist to Dry	Variety
Populus tremuloides	Trembling Aspen	Sun	Moist to Dry	Variety
Populus Americana	American Plum	Sun	Moist	Variety
Prunis nigra	Canada Plum	Sun	Moist	Variety
Prunus pensylvanica	Pin Cherry	Sun	Moist to Dry	Variety

<i>Prunus serotina</i>	Black Cherry	Sun	Moist to Dry	Variety
<i>Sassafras albidum</i>	Sassafras	Part Sun	Moist	Variety
<i>Thuja occidentalis</i>	Eastern White Cedar	Part Sun	Wet to Dry	Variety over limestone
<i>Tilia Americana</i>	American Basswood	Part Shade	Moist	Rich
<i>Tsuga canadensis</i>	Eastern Hemlock	Shade	Moist (and cool)	Variety
<i>Ulmus Americana</i>	American Elm or White Elm	Part Sun	Wet to Dry	Variety
<i>Ulmus rubra</i>	Slippery Elm or Red Elm	Sun	Moist	Rich

SHRUBS

Binomial Nomenclature	Common Name	Light Level	Soil Moisture	Soil Type
<i>Amelanchier canadensis</i>	Canada Serviceberry	Part Sun	Moist	All
<i>Amelanchier laevis</i>	Smooth Serviceberry	Part Sun	Moist	Well-drained
<i>Aronia melanocarpa</i>	Black Chokeberry	Sun	Wet to Moist	All
<i>Cephalanthus occidentalis</i>	Buttonbush	Part Sun	Wet	Loam
<i>Cornus alternifolia</i>	Alternate-leaved Dogwood	Part Sun	Moist	All
<i>Cornus amomum ssp. obliqua</i>	Silky Dogwood	Sun	Wet	All
<i>Cornus foemina ssp. racemose</i>	Grey Dogwood	Sun	Moist	Sand
<i>Cornus rugosa</i>	Rould-leaved Dogwood	Part Sun	Moist to Dry	Sand
<i>Cornus stolonifera</i>	Red-osier Dogwood	Sun	Wet to Moist	All
<i>Corylus Americana</i>	American Hazelnut	Part Sun	Dry	Sand
<i>Corylus cornuta</i>	Beaked Hazel	Part Sun	Moist	All
<i>Hamaelis virginiana</i>	Witch-hazel	Part Sun	Moist to Dry	All
<i>Ilex verticillata</i>	Winterberry	Part Sun	Wet	Clay, Loam
<i>Juniperus Communis</i>	Common Juniper	Sun	Dry	All
<i>Lindera benzoin</i>	Spicebush	Shade	Wet to Moist	Loam

Physocarpus opulifolius	Ninebark	Part Sun	Most	Loam
Prunus virginiana	Choke Cherry	Part Sun to Shade	Moist	All
Rhus aromatica	Fragrant Sumac	Sun	Moist to Dry	Sand
Rhus glabra	Smooth Sumac	Sun	Moist to Dry	Sandy, Rocky
Rhus typhina	Staghorn Sumac	Sun	Moist to Dry	All
Ribes americanum	Wild Black Currant	Shade	Wet to Moist	All
Ribes cynosbati	Prickly Gooseberry	Part Sun	Moist	All
Rosa blanda	Smooth Rose	Sun	Moist to Dry	Sand
Rosa Carolina	Carolina Rose or Pasture Rose	Sun	Mosit to Dry	Sand
Rosa palustris	Swamp Rose	Sun	Wet	Loam
Salix amygdaloides	Peach-leaved Willow	Full Sun	Wet to Moist	Variety
Salix bebbiana	Beaked Willow	Sun	Wet to Moist	All
Salix discolor	Pussy Willow	Part Sun	Wet to Moist	All
Salix eriocephala	Willow	Sun	West to Moist	All
Salix exigua	Sandbar Willow	Sun	Wet to Moist	All
Salix lucida	Shining Willow	Sun	Wet to Moist	All
Sambucus canadensis	Common Elderberry	Part Sun	Wet to Moist	All
Sambucus racemosa ssp pubens	Red-berried Elder	Shade	Moist	All
Spiraea alba	Narrow-leaved Meadow-sweet	Sun	Wet to Moist	All
Viburnum lentago	Nannyberry	Part Sun	Moist	All
Viburnum trilobum	Highbush Cranberry	Part Sun	Most	All

Information Sources:

Recommended Native Trees, Shrubs & Vines for Naturalization Projects in the Upper Thames River Watershed. Information sheet by the Upper Thames River Conservation Authority.
Thamesriver.on.ca/wp-content/uploads/NativeSpecies/Native-trees-shrubs.pdf