CITY OF HAMILTON APPROVED TREE SPECIES LIST FOR THE RIGHT-OF-WAY

Last updated: November 11, 2024

		Deterri	al Name																	
	0	Botanio	cal Name		Accepted	Hojaht	Spread	Growth	Size			Hydro	Small		Hamilton			Internally /	Municipally Supported Concerns from Pests Spotted Naternfly Of National Supported Concerns from Pests Spotted Naternfly Of National Supported Concerns from Pests Naternal National Supported Concerns from Pests Naternal National Support Suppor	Native
Context	Size	Genus	Species	Common Name	Cultivars	Height (m)	(m)	Rate	(Sm/M/L)	Salt Tol.	Soil Tol.	Hydro Friendly	Blvd. Friendly	Native	Survival Rate	Special Features	Rationale for Planting	Municipally Supported	Concerns from	Descriptor
nvironments		Acer	Acer x freemanii	Freeman Maple	Autumn Blaze 'Jeffersred'	15-17m	12-14m	Fast	Large			Х		Х		Upright, densely branched, broad, oval crown. Upright branching habit. Bright fall foliage.	Sensitive to desiccation from winter winds. Use in sheltered locations from prevailing winds. Tolerates wet feet.	INTERNAL		Native to Ontario
		Aesculus	Aesculus glabra	Ohio Buckeye		10-12m	9-12m	Medium	Medium			х	Х	Х		Showy flowers followed by seed husks covered in soft spines.	Municipally-supported. Somewhat cost effective. Salt tolerant. Tolerant to adverse soil conditions / volumes.	вотн		Native to Ontario
	ee		Aesculus hippocastanum	Horsechestnut	Baumannii	15-21m	16m	Medium	Large				X			Showy white flowers, oblong leaflets Full sun/ light shade.	Municipally-supported. Somewhat cost effective. Tolerant of urban pollution.	вотн		Non-native
	anopy Tre	Gingko	Gingko biloba	Ginkgo		15-25m	12m	Slow-Med	Large				Х			Upright, broad, spreading growth habit. Unique two-lobed fan-shaped leaves. Slower-growing.	Pest-free. Tolerant to wind, full sun or shade, adverse soil conditions / volumes, pollution.	MUNICIPAL		Non-native
	Full Form Ca		Gleditsia triacanthos var. inermis	Thornless Honeylocust	Skyline, Shademaster, Streetkeeper	13m	10m	Fast	Medium			X	Х	Х		Rounded to narrow-upright oval, usually developing a flat-topped crown. Open branching, small leaves provide filtered shade. Fruitless.	Municipally-supported. Cost-effective. Tolerant to wind, full sun or shade, adverse soil conditions / volumes, pollution.	вотн		Native to Ontario
Urban E		Gymnocladus	Gymnocladus dioicus	Kentucky Coffeetree	Espresso	21m	11m	Slow-Med	Medium				X	Х		Open branching habit with stubby twigs and large double-compound leaves with small leaflets. Dioecious tree with male and females. Male preferred.	Municipally-supported. Tolerant to wind, full sun or shade, adverse soil conditions / volumes.	вотн		Native to Ontario
Intensity		Ulmus	Ulmus davidiana var. japonica	Accolade Elm	Accolade, Commendation, Homestead	21m	12m	Fast	Large				X			Vase-shaped, with an oval to rounded crown. Notable yellow fall colour. Resistant to Dutch Elm Disease.	Municipally-supported. Tolerant to wind, full sun or shade, adverse soil conditions / volumes.	вотн	Dutch Elm Disease, elm bark beetle and elm leaf	Non-native
High		Platanus	Platanus acerifolia	London Planetree	Bloodgood	30m	13m	Medium	Large				Х		91%	Fast growing, maple-like leaves. Exfoliating bark, burr-like fruit	Tolerant to wind, full sun or shade, adverse soil conditions / volumes.	вотн		Non-native
	Tree	Carpinus	Carpinus caroliniana	Blue Beech / Musclewood		8-10m	8-10m	Medium	Small			Х	Х	Х		Rounded to oval crown with wide spreading branches. Smooth gray bark with distinct musle-like fluting.	Tolerant to wind, full sun or shade, adverse soil conditions / volumes.	INTERNAL		Native to Ontario
	rnamental	Ostrya	Ostrya virginiana	Ironwood / American Hophornbeam		10m	8m	Slow	Small			X		Х	87%	Upright, rounded to to oval crown. Unique drooping clusters of drooping seed-bearing pods. Slow to establish.	Fairly pest and disease resistant. Tolerant to adverse soil conditions / volumes.	INTERNAL		Native to Ontario
	I Form O		Syringa reticulata	Japanese Tree Lilac	Ivory Silk China Snow	6-7m	6m	Medium	Small			х	Х		85%	Upright, vase-shaped form with an arching habit. Showy lilac blooms. Tolerant of full sun.	Municipally-supported. Fairly pest and disease resistant. Municipally-supported.	вотн		Non-native
	Smal	Viburnum	Viburnum lentago	Nannyberry		5-6m	2m	Medium	Small			Х		Х	90%	Upright when young, becoming wider with age. Flat-topped clusters of creamy white flowers.	Tolerant to wind, full sun or shade, adverse soil conditions / volumes. Suitable for narrow planting strips.	MUNICIPAL		Native to Ontario

		Botanio	cal Name										Small		Hamilton			Internally /	Future	
Context	Size	Genus	Species	Common Name	Accepted Cultivars	Height (m)	Spread (m)	Growth Rate	Size (Sm/M/L)	Salt Tol.	Soil Tol.	Hydro Friendly	Blvd. Friendly	Native	Survival Rate	Special Features	Rationale for Planting	Municipally Supported	Maintenance Concerns from Pests	Native n Descriptor
			Acer rubrum	Red Maple	Armstrong	14-16m	5-7m	Fast	Medium					Х	86%	Columnar, narrow crown, with branches growing vertical.	Suitable for narrow planting strips, vertical accents.	INTERNAL	Spotted Lanternfly	Native to Ontario
		Acer			Autumn Blaze											Upright, densely branched, broad, oval crown. Upright branching habit.	Sensitive to desiccation from winter winds. Use in sheltered locations from prevailing		Spotted	Native to
			Acer x freemanii	Freeman Maple	'Jeffersred'	15-17m	12-14m	Fast	Large			Χ		Х	94%	Bright fall foliage.	winds.	BOTH	Lanternfly	Ontario
		Betula	Betula nigra	River Birch		12-18m	10-13m	Fast	Medium						94%	Upright, oval to rounded growth habit. Exfoliating reddish-brown bark reveals lighter bark.	One of the most disease-free birches. Tolerant of urban pollution.	INTERNAL	Spotted Lanternfly	Native to North America
																Upright, arching branches with a rounded, spreading crown.	Municipally-supported.			
			Celtis	Common												Light green leaves, corky bark.	Cost-effective.			Native to
		Celtis	occidentalis	Hackberry		15-18m	14-16m	Fast	Medium				Х	Х	97%	Sensitive to de-icing salts. Use away from roadways.	Municipally supported	BOTH		Ontario
	ω			Prairie Sentinel												Narrow, columnar form with vertical upswept branches.	Municipally-supported. Cost-effective.			Native to
	Tre			Hackberry	Prairie Sentinel	15-18m	3-4m	Fast	Medium				Χ	Х	97%	Light green leaves, corky bark.	Suitable for narrow planting strips.	BOTH		Ontario
ıts	Sanopy		Liquidambar	Moraine												Densely branched pyramidal crown becoming oval with maturity.	Fruit causes mess-needs room for roots.			Native to
ner	Ę.	Liquidambar	styraciflua	Sweetgum	Moraine	18-22m	12m	Med-Fast	Large				Х		88%	Lobed glossy green leaves.	Tolerant to adverse soil conditions, drought.	INTERNAL		North America
Environ	Full Fo	Liriodendron	Liriodendron	Tuliptree		36m	12m	Med-Fast	Large					×		Pyramidal to broad, conical growth form. Yellow-green tuilp-like flowers. Bright green leaves turn golden yellow in fall.	Cost-effective. Prefers moist, well-drained soil with minimal salt spray.	INTERNAL	Spotted Lanternfly, aphids	Native to Ontario
ın Er		Quercus	шриста	Типрисс		30111	12111	WCG-I ast	Large					X	0470	Pyramidal when young, maturing toa broad, spreading, rounded crown.	Sait Spray.	INTERNAL	LDD Moth, Oak	
Urba			Quercus macrocarpa	Bur Oak		24m	18m	Slow	Large				Y	Х	86%	Unusual branching and corky twigs. Sensitive to de-icing salts. Use away from roadways.	Municipally-supported.	вотн	Wilt, Spotted	Native to Ontario
1			Пастосагра	Dui Oak		24111	10111	Olow	Large						0070	Pyramidal, upright, dense crown, with nearly vertical	іминограну-зарротюч.	БОПТ	LDD Moth, Oak	
tensi			Quercus robur 'Fastigiata'	Pyramidal English Oak		15-18m	5-6m	Slow	Medium						91%	branches. Suitable for screening or where space is limited.	Tolerant to adverse soil conditions, drought. Suitable for narrow planting strips.	вотн	Wilt, Spotted lanternfly	Non-native
w In			Quercus rubra	Red Oak		16-22m	15-20m	Slow	Large					Х	87%	Rounded, broad spreading, often irregular crown. Foliage turns red-brown in fall.	Tolerant to adverse soil conditions, drought.	INTERNAL	Wilt, Spotted lanternfly	Native to Ontario
Ľ																Densely branched pyramidal to oval crown. Green leaves turn pale yellow in fall.	Municpally-supported. Tolerant to wind, full sun or shade, adverse			
		Tilia	Tilia cordata	Littleleaf Linden	Greenspire,	16-20m	8-12m	Fast	Med-Large				Χ		87%	Suitable as a shade tree with its dense form.	soil conditions / volumes.	вотн	Aphids	Non-native
	ree	Carpinus	Carpinus caroliniana	Blue Beech / Musclewood		8-10m	8-10m	Medium	Small			x		Х		Rounded to oval crown with wide spreading branches. Smooth gray bark with distinct musle-like fluting.	Tolerant to wind, full sun or shade, adverse soil conditions / volumes.	INTERNAL		Native to Ontario
	a I	Garpinas	Garonnana	MaddidWada		0 10111	0 10111	Wicalam	Oman			X		- /	0070	Upright, rounded to to oval crown.	con contantono y volumbo.	IIII EI GOLE		Omano
	ient			Ironwood /												Unique drooping clusters of drooping seed-bearing	Fairly wast and disease resistant			Nativa ta
	nam	Ostrya	Ostrya virginiana	American Hophornbeam		10m	8m	Slow	Small			Х		Χ	87%	pods. Slow to establish.	Fairly pest and disease resistant. Tolerant to adverse soil conditions / volumes.	INTERNAL		Native to Ontario
	orm Or															Upright form. Green leaves emerge reddish with exfoliating bark.		O U ID) (1) () ()		
	= F	Parrotia	Parrotia persica	Persian Ironwood		6-12m	10m	Medium	Small-Med			×			90%	Tolerant of full sun to light shade. Tolerant of pollution.	Tolerant to adverse soil conditions, drought.	SURVIVAL STUDY		Non-native
	Sma			Japanese Tree	Ivory Silk,	JIEIII	10111	ouidiii	Smail Wou							Upright, vase-shaped form with an arching habit. Showy lilac blooms.		21021		
		Syringa	reticulata	Lilac	China Snow	6-7m	6m	Medium	Small			Х	Х			Tolerant of full sun.	Fairly pest and disease resistant.	вотн		Non-native

		Botanic	cal Name										Small		Hamilton			Internally /	Future	
Context	Size	Genus	Species	Common Name	Accepted Cultivars	Height (m)	Spread (m)	Growth Rate	Size (Sm/M/L)	Salt Tol.	Soil Tol.	Hydro Friendly	Blvd. Friendly	Native	Survival Rate	Special Features	Rationale for Planting	Municipally Supported	Maintenance Concerns from Pests	Native Descriptor
		Acer	Acer saccharinum	Silver Maple		18-20m	15-18m	Fast	Large					Х	74%	Tall, with a rounded, open, spreading crown. Light green leaves with silvery underside. Tolerant of wet areas. Susceptible to bark- / branch-splitting.	Municipally-supported. Cost-effective. Tolerant of wet, often poorly drained soils.	MUNICIPAL SCAN	Lanternfly	Native to Ontario
	_		Acer saccharum	Sugar Maple		25-30m	15-18m	Slow-Med	Large					Х	71%	Upright growing with a dense, rounded crown. Leaves turn yellow to bright orange / red in fall.		INTERNAL	Spotted Lanternfly	Native to Ontario
		Celtis	Celtis occidentalis	Common Hackberry		15-18m	14-16m	Fast	Medium				X	X	97%	Light green leaves, corky bark. Sensitive to de-icing salts. Use away from roadways.	Municipally-supported. Cost-effective.	вотн		Native to Ontario
	oy Tree	Liriodendron	Liriodendron tulipifera	Tuliptree		36m	12m	Med-Fast	Large					Х		Pyramidal to broad, conical growth form. Yellow-green tuilp-like flowers. Bright green leaves turn golden yellow in fall.	Cost-effective. Prefers moist, well-drained soil with minimal salt spray.	INTERNAL	Spotted Lanternfly, aphids	Native to Ontario
	orm Canop			Kentucky Coffeetree	Espresso	21m	11m	Slow-Med	Medium				Х	Х	91%	Dioecious tree with male and females. Male preferred.	Municipally-supported. Tolerant to wind, full sun or shade, adverse soil conditions / volumes.	вотн		Native to Ontario
	Full F	Juglans	Juglans nigra	Black Walnut		18-25m	16-18m	Fast	Large					Х		Tall, oval to rounded growth habit. Large pinnate compound leaves. Litter from fruit (nuts) can be messy. Use in larger open areas.	Fruit (nuts) causes mess - needs room for roots. Tolerant to adverse soil conditions, drought.	INTERNAL		Native to Ontario
Environments		Liquidambar	Liquidambar styraciflua	Moraine Sweetgum	Moraine	18-22m	12m	Med-Fast	Large				Х			Densely branched pyramidal crown becoming oval with maturity. Lobed glossy green leaves.	Fruit causes mess - needs room for roots. Tolerant to adverse soil conditions, drought.	INTERNAL		Native to North America
iror		Acer	Acer rubrum	Red Maple	Armstrona	14-16m	5-7m	Fast	Medium					x		Columnar, narrow crown, with branches growing vertical.	Suitable for narrow planting strips, vertical accents.	INTERNAL	Spotted Lanternfly	Native to Ontario
Rural Env			Quercus	Bur Oak	- inneriong	24m	18m		Large				Х	х	86%	Pyramidal when young, maturing toa broad, spreading, rounded crown. Unusual branching and corky twigs. Sensitive to de-icing salts. Use away from roadways.	Municipally-supported.	вотн	LDD Moth, Oak Wilt, Spotted lanternfly	Native to Ontario
	amental	Cladastris	Cladastris kentukea / lutea	Amercian Yellowood		10-12m	10m	Medium	Small-Med			Х				Vase-shaped crown with broad, horizontal spreading branches. Long pendulous drooping clusters of white flowers.	Tolerant of urban conditions and high pH levels in soil.	INTERNAL		Native to North America
	Form Orna Tree	Carpinus	- 1	Blue Beech / Musclewood		8-10m	8-10m	Medium	Small			х		Х	90%	Rounded to oval crown with wide spreading branches. Smooth gray bark with distinct musle-like fluting. Upright, rounded to to oval crown.	Tolerant to wind, full sun or shade, adverse soil conditions / volumes.	INTERNAL		Native to Ontario
	Small	Ostrya	Ostrya virginiana	Ironwood / American Hophornbeam		10m	8m	Slow	Small			Х		Х		Unique drooping clusters of drooping seed-bearing pods. Slow to establish.	Fairly pest and disease resistant. Tolerant to adverse soil conditions / volumes.	INTERNAL		Native to Ontario
	s Tree s Only)	Picea	Picea abies	Norway Spruce		20-25m	8-10m	Fast	Large						75%	Pyramidal with upright, arching branches. Large cones.	For use as a screening / windbreak along highways to supplement deciduous plantings.	INTERNAL		Non-native
	oniferou ighways		Picea glauca	White Spruce		25m	6-8m	Medium	Large					Х		Dense, uniformly pyramidal. Stiff, spirally-arranged needles that are blue-green.	For use as a screening / windbreak along highways to supplement deciduous plantings.	INTERNAL		Native to Ontario
	SE	Pinus		Eastern White Pine		20-24m	7-10m	Fast	Large					Х		Broadly pyramidal evergreen. Whispy, long soft needles. Open branching with smooth bark.	For use as a screening / windbreak along highways to supplement deciduous plantings.	INTERNAL		Native to Ontario

DEFINITIONS AND TERMINOLOGY

Right-of-Way Contexts for Tree Pl	acement							
High Intensity Urban Environments	For use along highways (expressways), arterial streets, bus routes, commercial shopping streets, hardscapes/soil cells. Trees planted in these contexts must withstand adverse soil conditions with minimal soil volume, plus salt, salt spray and winter winds.							
Low Intensity Urban Environments	For use along non-bus routes, residential / local streets that are less susceptible to excessive amounts of salt and salt spray.							
Rural Environments	For use along secondary highways, rural roads, and open areas with more exspansive space to grow.							
Other Terms								
Municipally-supported	Species is listed on York Region's plant list as a <i>Proven Species</i> and City of Mississauga's plant list as a streetscape (hardscape) planting.							
Cost-effective	A tree is identified as cost-effective if it is deemed as a fast-growing species. These were cited by tree nurseries as the least expensive to grow.							
Hamilton Survival Rate	The degree (percentage) to which a species has historically survived. This metric accounts for all species planted by the City of Hamilton on <i>all</i> rights-ofway, historically.							
Internally- / Municipally- / Both-	Internal = Survival rates are good and internal staff approved. Environmental tolerance to urban / roadside conditions; Municipal = Supported by 1 or more municipalities, other than Hamilton. Both = Both internally- and municipally-supported. Environmental tolerance to urban / roadside conditions.							
Supported; Survival Study	Survival Study = Only survival rates are sufficient, and therefore worth trialing.							
Hydro	The ability for a tree to grow beneath or near hydro and its ability to be pruned or trimmed near hydro lines.							
Consult Deviley and Eviley alley	The ability of a tree to grow within a boulevard that is minmum 1.8m wide. Trees planted in these contexts must also withstand adverse soil conditions with minimal soil volume, plus solt, solt array and winter winds.							
Small Boulevard Friendly	with minimal soil volume, plus salt, salt spray and winter winds. Native to Ontario, Native to North America and Non-native							
Native Descriptors	native to Officiallo, native to north Afficia and non-fidure							

EVALUATION CRITERIA

Criteria Factor	Degree of Capability									
Ciliteria Factor	High	Medium / Moderate	Low							
The degree of tolerance to adverse soil conditions and soil volume		Can tolerate some degree of poor soil								
soil volume.	poor soil conditions.	· · · · · · · · · · · · · · · · · · ·	Low degree and tree needs richer soil to survive.							
The degree of tolerance to salt and salt spray.	High degree of tolerance to withstand	Tree can tolerate some degree of salt								
The degree of tolerance to sait and sait spray.	salt and salt spray.	and salt spray.	Tree cannot tolerate salt and salt spray.							
The degree / pace of growth (i.e. growth rate).		Medium growing / medium-slow								
The degree / pace or growth (i.e. growth rate).	Fast-growing.	growing.	Slow-growing.							
Cost effectiveness.			Less cost-effective because it is slow-							
Cost effectiveriess.	Cost effective because it is fast-growing.	Somewhat cost effective.	growing.							