

Plant Lists

The plants in these lists are a combination of hardy native, introduced and cultivated plants.

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Deciduous shrubs

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About the plant lists

The plants in these lists are a combination of hardy native, naturalized, introduced and cultivated plants. Planting native species is recommended, however, some non-invasive, non-native plants are very good choices for difficult growing conditions, particularly in urban areas. Some of these non-native trees and shrubs listed are resistant to disease, and tolerant of air pollution, road salt, and dry conditions.

It is important to keep a balanced perspective when choosing plants for your school grounds because whether to plant native or non-native species is something that can quickly become very confusing. Whereas it is essential to plant native species when restoring the integrity of a natural ecosystem, the situation is quite different when transforming a typical schoolyard where the original natural environment has been dramatically altered or has disappeared completely.

No one yet knows how rising global temperatures due to climate change will affect existing native plant communities. One prediction is that trees adapted to, and requiring a cold climate will need to “move” 100 kilometres north for each degree the temperature rises.

As the climate warms, it is also predicted that plants and animals from regions south of the Canadian border will expand their range northwards. Likewise, certain pests and diseases usually killed off by long, cold winters will be able to survive and spread further north, attacking native plants that are currently fairly disease-free. Anticipated disruptions in weather patterns and rainfall are also expected to weaken plant communities and make them more susceptible to disease.

Many introduced plants have escaped into the wild and become naturalized. Some of these escapees have co-existed with native plants for more than 200 years. To add to the confusion, some wildlife-useful native plants such as milkweeds, the preferred food of the Monarch butterfly, have been listed as “noxious weeds” in some provinces.

People are often advised to plant native species due to their usefulness to wildlife; however, it should be borne in mind that a large number of widely-planted, non-native plants that produce flowers, berries and seeds are also highly beneficial to native butterflies, moths, bees, hummingbirds, birds and small mammals. Considering that birds and insects migrating south for the winter feed en route from a wide variety of plants that do not grow in Canada, the insistence upon natives only seems a little too finicky. Having said that, there are a few very aggressive, invasive non-native plants and these should be avoided or they will overrun your plantings and cause a lot of maintenance work. They could also escape into the surrounding area and cause greater problems. (Remember that some native plants can be invasive as well.)

Use discretion when choosing a plant to ensure that it is non-invasive. Some invasive introduced plants, such as Purple Loosestrife and Swallowwort or Dog-strangling Vine, are so aggressive that they cause serious problems when they escape to the wild because they can reduce habitat for wildlife by taking over natural areas and eventually eliminating native species.

The best approach when selecting plants is to first assess the soil and the growing conditions on the site you have in mind. Then choose your plant material accordingly.



DECIDUOUS TREES

COMMON NAME	SCIENTIFIC NAME	URBAN TOLERANCE	SALT TOLERANCE	SOIL	CONDITONS TOLERATED	NATIVE	HEIGHT	SPREAD
Alder, Black	<i>Alnus glutinosa</i>	Sensitive	Sensitive	Most, except very sandy		Native	40' 12 m	30' 9 m
Alder, White, Grey or Speckled	<i>Alnus incana</i>	Sensitive	Sensitive	Most, except very sandy	Wet		50' 15 m	30' 9 m
Apples	<i>Malus spp.</i>	Sensitive	Sensitive					
Ash, Black	<i>Fraxinus nigra</i>	Very Tolerant	Very Tolerant	Moist	Wet	Native	46' 14 m	26' 8 m
Ash, Green	<i>Fraxinus pennsylvanica</i>	Tolerant	Tolerant	Most		Native	60' 18 m	30' 9 m
Ash, White	<i>Fraxinus americana</i>	Tolerant	Tolerant	Most, except very dry		Native	70' 21 m	60' 18 m
Ash, American / Mountain Ash	<i>Sorbus americana</i>	Moderate	Moderate	Moist	Dry	Native	20' 6 m	12' 3.6 m
Rowan	<i>Sorbus aucuparia</i>	Moderate	Moderate	Well-drained			30' 9 m	30' 9 m
Aspen, Bigtooth	<i>Populus grandidentata</i>	Tolerant	Tolerant	Most		Native	60' 18 m	30' 9 m
Aspen, Quaking	<i>Populus tremuloides</i>	Moderate	Moderate	Most		Native	46' 14 m	26' 8 m
Basswood	<i>Tilia americana</i>	Sensitive	Sensitive	Deep, well-drained	Wet	Native	60' 18 m	40' 12 m
Beech, American	<i>Fagus americana</i>	Very Sensitive	Very Sensitive	Neutral to alkaline		Native	60' 18 m	110' 36 m
Beech, Blue / Hornbeam	<i>Carpinus caroliniana</i>	Very Sensitive	Very Sensitive	Drier soil – partial to heavy shade		Native	30' 9m	30' 9 m

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Birch, Grey	<i>Betula populifolia</i>	Tolerant	Tolerant	Poor, sandy, rocky, gravelly, heavier	Wet or dry – does not like competition!	Native	30' 9 m	10-20' 3-6 m
Birch, Weeping	<i>Betula papyrifera pendulum</i>	Tolerant	Tolerant	Well-drained to moist			50' 15 m	35' 10.5 m
Birch, White	<i>Betula alba papyrifera</i>	Tolerant	Tolerant	Slightly acidic, well-drained		Native	60' 18 m	40' 12 m
Birch, Yellow	<i>Betula alleghaniensis</i>	Very Tolerant	Very tolerant	Moist		Native	40' 12 m	40' 12 m
Buckeye, Ohio	<i>Aesculus glabra</i>	Tolerant	Tolerant	Deep, moist, well-drained	Needs space – best in natural setting space	Native	35' 10.5 m	25' 7.5 m
Butternut	<i>Juglans cinerea</i>	Sensitive	Sensitive	Deep, rich, moist, dry, rocky		Native	45' 13.5 m	40' 12 m
Catalpa	<i>Catalpa speciosa</i>	Moderate	Moderate	Moist			50' 15 m	30' 9 m
Cherries	<i>Prunus spp.</i>	Very Tolerant	Very Tolerant					
Cherry, Black	<i>Prunus serotina</i>	Moderate	Moderate	Deep, moist, fertile	Dry, gravelly, sandy	Native	70' 21 m	50' 15 m
Cherry, Manchu or Nanking	<i>Prunus tomentosa</i>	Tolerant	Tolerant				10' 3 m	15' 4.5 m
Cherry, Sargent	<i>Prunus sargentii</i>	Very Tolerant	Very Tolerant	Well-drained			40-50' 12-15 m	40-50' 12-15 m
Birdcherry	<i>Prunus padus</i>	Tolerant	Tolerant	Adaptable	Intolerant of shade		30-40' 9-12 m	Rounded form
Choke-cherry, Amur	<i>Prunus maackii</i>	Tolerant	Tolerant	Well-drained	Dry		40' 12 m	25' 7.5 m
Choke-cherry, Common	<i>Prunus virginiana</i>	Tolerant	Tolerant			Native	25' 7.5 m	20' 6 m
Choke-cherry, 'Shubert'	<i>Prunus virginiana 'Shubert'</i>	Moderate	Moderate		Dry	Native	25' 7.5 m	20' 6 m

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Pincherry	Prunus penn-sylvanica	Tolerant	Tolerant	Most		Native	25-40' 7.5-12 m	18-27' 5.4-8 m
Coffeetree, Kentucky	Gymnocladus dioicus	Moderate	Moderate	Deep, well-drained	Adaptable	Native	60' 18 m	40' 12 m
Cottonwood or Eastern Poplar	Populus deltoides	Tolerant	Tolerant	Moist	Dry	Native	90' 27 m	60' 18 m
Flowering Crabapples	Malus spp.	Sensitive	Sensitive					

All crabapples are best grown in heavy loam, well-drained, moist, and acidic (pH 5.0-6.5) soils. Asiatic forms are much more resistant to disease than the forms native to North America. There are about 700 types of crabapples. The following is a list of the more disease-resistant forms.

'Adams'		Sensitive					25' 7.5 m	
'Ames White'		Sensitive					25' 7.5 m	
'Autumn Glory'		Sensitive					12' 3.6 m	
'Baskatong'		Sensitive					30' 9 m	
'Beauty'		Sensitive					25' 7.5 m	
'Coral Cascade'		Sensitive						
'Dolgo'		Very Sensitive					30-40' 9-12 m	
'Evelyn'		Sensitive					20' 6 m	
'Gibbs Golden Gage'		Sensitive					20' 6 m	
'Henningi'		Sensitive					25' 7.5 m	
'Jackii'	Malus baccata jackii						30-40' 9-12 m	

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'Profusion'		Sensitive					20' 6 m	
'Robinson'		Sensitive					25' 7.5 m	
'Rosseau'		Sensitive					40' 12 m	
'Sissipuk'		Sensitive					40' 12 m	
'Sparkler'		Sensitive					15' 4.5 m	
Flowering Crab, Japanese	Malus floribunda	Sensitive					15-25' 4.5-7.5 m	
Flowering Crab, Siberian	Malus baccata	Sensitive					20-50' 6-15 m	
Elm, American, Grey, White, Swamp, Water	Ulmus americana	Sensitive	Tolerant	Rich, moist	Adaptable	Native	60-80' 18-24 m	Spread half to two-thirds the height
Elm, Chinese or Lacebark	Ulmus parvifolia	Very Tolerant	Very Tolerant	Any			50' 15m	36' 11m
Elm, Scots or Wych	Ulmus glabra	Very Tolerant	Very Tolerant				80-100' 24-30 m	50-70' 15-21 m
Elm, Siberian	Ulmus pumila	Tolerant	Tolerant	Any			60' 18 m	40' 12 m
Elm, Slippery	Ulmus rubra	Sensitive	Sensitive	Moist, rich bottomlands	Dry, limestone soils	Native	40-60' 12-18 m	Vase-shaped
Filbert, Turkish	Corylus colurna	Very Tolerant	Very Tolerant	Well-drained, loamy	Adaptable, drought-tolerant		50' 15m	Spread half to two-thirds height
Ginkgo	Ginkgo biloba	Tolerant	Tolerant	Most			80' 24 m	40' 12 m
Hackberry	Celtis occidentalis	Very Tolerant	Tolerant	Most	Dry	Native	40-60' 12-18' m	40-60' 12-18' m
Hawthorn, Cockspur	Crataegus crusgalli	Moderate	Moderate	Well-drained		Native	20' 6 m	27' 7.5 m

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Hawthorn, Toba	<i>Crataegus mordenensis</i>	Moderate	Moderate	Well-drained			20' 6 m	20' 6 m
Hickory, Bitternut	<i>Carya cordiformis</i>	Sensitive	Sensitive	Well-drained to dry, fairly rich		Native	50-75' 15-22 m	25-35' 7.5-9 m
Hickory, Pignut	<i>Carya glabra</i>	Sensitive	Sensitive	Well-drained to dry, fairly rich		Native	50-60' 15-18 m	30' 9 m
Hickory, Shagbark	<i>Carya ovata</i>	Sensitive	Sensitive	Rich, well-drained	Adaptable	Native	80' 24 m	35' 10.5 m
Hophornbeam, American or Ironwood	<i>Ostrya virginiana</i>	Moderate	Moderate	Moist, not wet	Dry	Native	40' 12 m	25' 7.5 m
Hornbeam, Blue Beech	<i>Carpinus caroliniana</i>	Very Sensitive	Very Sensitive	Deep, rich, moist, slightly acidic	Drier soil, partial to heavy shade	Native	30' 9 m	30' 9 m
Horse Chestnut	<i>Aesculus hippocastanum</i>	Tolerant	Tolerant	Moist, well-drained			70' 21 m	40-70' 12-21 m
Horse Chestnut, Red	<i>Aesculus x carnea</i>	Tolerant	Tolerant	Deep, well-drained			40' 12 m	30' 9 m
Ironwood or Hop-hornbeam, American	<i>Ostrya virginiana</i>	Moderate	Moderate	Most, not wet	Dry	Native	40' 12 m	25' 7.5 m
Kentucky Coffeetree	<i>Gymnocladus dioicus</i>	Tolerant	Moderate	Deep, rich, moist	Adaptable	Native	60-70' 18-21 m	40-50' 12-15 m
Lilac, Japanese Tree	<i>Syringa reticulata</i>	Tolerant	Tolerant	Loose, well-drained			20-30' 6-9 m	20' 6 m
Linden, American	<i>Tilia samericana</i>	Sensitive	Sensitive	Deep, well-drained	Wet	Native	70' 21 m	40' 12 m
Linden, Little Leaf	<i>Tilia cordata</i>	Very Tolerant	Moderate	Moist, well-drained, fertile	Adaptable	Native	70' 21 m	40' 12 m
Locust, Black	<i>Robinia pseudoacacia</i>	Very Tolerant	Very Tolerant	Most	Adaptable	Native	30-50' 9-15 m	20-30' 6-9 m

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Locust, Globe	Robinia pseudoacacia umbraculifera	Very Tolerant	Very Tolerant		Dry		20' 6 m	20' 6 m
Locust, Honey	Gleditsia triacanthos	Very Tolerant	Very Tolerant	Rich, moist bottomlands, soils of limestone origin	Tolerates drought conditions	Native	30-70' 9-21 m	30-70' 9-21 m
Maple, Amur	Acer grinnala	Moderate	Moderate	Moist, well-drained	Adaptable		18' 5.4 m	18' 5.4 m
Maple, Ash-leaved	Acer negundo	Moderate	Moderate	Any		Native	30-50' 9-15 m	30-50' 9-15 m
Maple, Norway	Acer platanoides	Tolerant	Tolerant	Most			50' 15 m	Spread 2/3 of, or equal to height
Maple, Red	Acer rubrum	Sensitive	Sensitive	Moist, slightly acidic	Wet or dry, adaptable	Native	60' 18 m	60' 18 m
Maple, Silver	Acer saccharinum	Moderate	Moderate	Most	Wet / Dry	Native	75' 22.5 m	50' 15 m
Maple, Sugar	Acer saccharum	Sensitive	Sensitive	Moist, slightly acidic		Native	65' 19.5 m	45' 13.5 m
Maple, Sycamore	Acer pseudo-platanus	Sensitive	Sensitive	Very adaptable			50' 15 m	Spread 2/3 of, or equal to height
Mountain Ash, American	Sorbus americana	Moderate	Moderate	Moist	Dry	Native	20' 6 m	12' 3.6 m
Mountain Ash, European, or Rowan	Sorbus aucuparia	Moderate	Moderate	Well-drained			30' 9 m	20' 6 m
Mulberries	Morus spp.	Very Tolerant	Very Tolerant					
Mulberry, White or Common	Morus alba	Very Tolerant	Very Tolerant	Adaptable			30-50' 9-15 m	Spread equal to height

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COMMON NAME	SCIENTIFIC NAME	URBAN TOLERANCE	SALT TOLERANCE	SOIL	CONDITONS TOLERATED	NATIVE	HEIGHT	SPREAD
Oak, Bur	<i>Quercus macrocarpa</i>	Tolerant	Tolerant	Most, not compacted		Native	75' 22.5 m	Spread equal to height
Oak, English	<i>Quercus robar</i>	Very Tolerant	Very Tolerant	Good, well-drained			75-100' 22.5-30 m	Spread equal to height
Oak, Pin	<i>Quercus palustris</i>	Moderate	Moderate	Moist, well-drained, rich, acidic	Wet	Native	60' 18 m	30' 9m
Oak, Red	<i>Quercus rubra</i>	Very Tolerant	Very Tolerant	Sandy, acidic		Native	60' 18 m	60' 18 m
Oak, White	<i>Quercus alba</i>	Tolerant	Tolerant	Deep, well-drained			90' 27 m	50-80' 15-24 m
Ohio Buckeye	<i>Aesculus glabra</i>	Tolerant	Tolerant	Deep, well-drained		Native	35' 10.5 m	25' 7.5 m
Olive, Russian	<i>Elaeagnus angustifolia</i>	Tolerant	Very Tolerant	Most, best in light, sandy loams	Dry		20' 6 m	Spread equal to height
Poplar, Balsam	<i>Populus balsamifera</i>	Very Tolerant	Very Tolerant					
Poplar, Eastern or Cottonwood	<i>Populus deltoides</i>	Tolerant	Tolerant	Moist	Tolerates dry	Native	90' 27 m	60' 18 m
Poplar, Lombardy	<i>Populus nigra italica</i>	Sensitive	Sensitive				70-90' 21-27 m	10-15' 3-5 m
Poplar, White	<i>Populus alba</i>	Very Tolerant	Very Tolerant	Moist, deep loam			40-70' 12-21 m	40-70' 12-21 m
Russian Olive	<i>Elaeagnus angustifolia</i>	Tolerant	Very Tolerant	Most, best in light, sandy loams	Dry		20' 6 m	Spread equal to height
Service-berry, Allegheny	<i>Amelanchier slaevis</i>	Moderate	Moderate			Native	3-18' 1-6 m	Variable
Service-berry, Downy	<i>Amelanchier arborea</i>	Sensitive	Sensitive	Moist, well-drained, acidic	Adaptable	Native	20' 6 m	Variable spread

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Service-berry, Saskatoon	Amelanchier alnifolia	Very Tolerant	Very Tolerant	Alkaline	Tolerates harsh climate	Native	3-18' 1-6 m	Variable
Service-berry, Shadblow	Amelanchier canadensis	Tolerant	Tolerant				6-20' 2-6 m	Variable
Tuliptree	Liriodendron tulipifera	Moderate	Very Tolerant			Native	70-90' 21-27 m	40' 12 m
Walnut, Black	Juglans nigra	Sensitive	Sensitive	Deep, rich, moist	Tolerates drier soil, but then grows more slowly	Native	75' 21 m	Spread equal to height
Wayfaring Tree	Viburnum lantana	Very Tolerant	Very Tolerant	Moist, well-drained, slightly acidic			15' 4.5 m	10-15' 3-4.5 m
Willow, Black Pussy	Salix melano-stachys	Moderate	Tolerant	Moist	Wet		6-10' 2-3 m	
Willow, Goat	Salix caprea	Moderate	Moderate	Moist	Wet		15-25' 4.5-7.5 m	12-15' 3.5-4.5 m
Willow, Golden	Salix alba vitelina	Tolerant	Tolerant	Moist, not chalky			75-100' 22.5-30m	50-100' 15-30 m
Willow, Laurel	Salix pentandra	Moderate	Moderate	Moist	Wet		60' 18 m	40' 12 m
Willow, Purple Osier	Salix purpurea	Moderate	Moderate	Moist	Wet		10-18' 3-5.4 m	6-10' 2-3 m
Willow, Weeping Golden	Salix babylonica L.	Moderate	Moderate	Moist	Wet		75-100' 22.5-30 m	50-100' 15-30 m
Willow, White	Salix alba	Tolerant	Moderate	Moist, not chalky	Wet		75-100' 22.5-30 m	50-100' 15-30 m

CONIFEROUS TREES AND SHRUBS

COMMON NAME	SCIENTIFIC NAME	URBAN TOLERANCE	SALT TOLERANCE	SOIL	CONDITIONS TOLERATED	NATIVE	HEIGHT	SPREAD
Cedar, Eastern Red	<i>Juniperus virginiana</i>	Moderate	Moderate	Deep, moist loam on well-drained subsoil	Poor, gravelly, acid, high pH soils – prefers a sunny, airy location	Native	45' 13.5 m	8-20' 2.5-6 m
Cedar, Pyramid	<i>Thuja occidentalis</i> 'fastigiata'	Moderate	Fertile, moist, well-drained	Partial shade			20' 6 m	
Cedar, White	<i>Thuja occidentalis</i>	Moderate	Moderate	Fertile, moist, well-drained	Partial shade, limestone soils, thrives in marshy loam	Native	40-60' 12-18 m	10-15' 3-4.5 m
False Cypress, Nootka or Alaska Cedar	<i>Chamaecyparis nootkatensis</i>	Tolerant	Tolerant	Rich, moist, well-drained	Wet	Native	30-45' 9-13.5 m	12' 3 m
Fir, Balsam	<i>Abies balsamea</i>	Very Sensitive	Very Sensitive		Wet	Native	45-60' 13.5-18 m	20-25' 6-7.5 m
Hemlock	<i>Tsuga canadensis</i>	Very Sensitive	Very Sensitive	Moist, well-drained, acid, rocky or sandy	Moist, well-drained, acid, rocky or sandy	Native	45-60' 13.5-18 m	20-25' 6-7.5 m
Junipers	<i>Juniperus</i> spp.	Tolerant	Moderate	Light, sandy, low or high pH moderately moist	Dry, clay soils – some types will grow in sand			
Juniper, 'Andorra'	<i>Juniperus horizontalis</i> 'Plumosa'	Tolerant	Moderate	Sandy, rocky – exposed locations				
Juniper, 'Bar Harbour'	<i>Juniperus horizontalis</i> 'Bar Harbour'	Tolerant	Moderate	Native to sandy, rocky, exposed locations	Adaptable – withstands hot, dry situations and slightly alkaline soils	Native	1' 0.3 m	6 - 8' 1.8-2.4 m

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COMMON NAME	SCIENTIFIC NAME	URBAN TOLERANCE	SALT TOLERANCE	SOIL	CONDITONS TOLERATED	NATIVE	HEIGHT	SPREAD
Juniper, 'Blue Chip'	Juniperus horizontalis 'Blue chip'	Tolerant	Moderate	Sandy, rocky	Adaptable		10" .25 m	6-8' 1.8-2.4 m
Juniper, 'Blue Rug'	Juniperus horizontalis 'Blue Rug'	Tolerant	Moderate	Sandy, rocky – exposed locations				
Juniper, Creeping	Juniperus horizontalis	Tolerant	Moderate	Sandy, rocky		Native	1-2' 0.3-0.6 m	4-8' 1.2-2.4 m
Juniper, 'Hetz Blue'	Juniperus chinensis 'Hetzii'	Tolerant	Moderate	Moist, well-drained, pH adaptable – full sun	Calcareous soils		15' 4.5 m	15' 4.5 m
Juniper, 'Mint Julep'	Juniperus chinensis 'Mint Julep'	Tolerant	Moderate	Moist, well-drained, pH adaptable – full sun	Calcareous soils		50-60' 15-18 m	15-20' 4.5-6 m
Juniper, 'Savin'	Juniperus sabina	Tolerant	Moderate	Limestone soil, well-drained, dry – sunny location			4-6' 1.2-1.8 m	5-12' 1.5-3.6 m
Juniper, Savin, 'Calgary Carpet'	Juniperus sabina 'Calgary carpet'	Tolerant	Moderate	Limestone, well-drained, dry – sunny location			18" .45 m	10-15' 3-4.5 m
Juniper, Tamarix	Juniperus sabina 'Tamariscifolia'	Tolerant	Moderate	Limestone, well-drained, dry – sunny location			18" .45 m	10-15' 3-4.5 m
Larch or Tamarack	Larix laricina	Sensitive	Sensitive	Well-drained, acid, moist – sunny location	Wet – does not tolerate shade	Native	40-80' 12-24 m	15-30' 4.5-9 m
Larch, European	Larix decidua	Sensitive	Sensitive	Moist, well-drained – sunny location	Wet – does not tolerate shade or shallow, dry, chalky soils		70-75' 21-22.5 m	25-30' 7.5-9 m
Pine, Austrian	Pinus nigra 'Arnold'	Tolerant	Tolerant	Moist	Succeeds in fairly heavy clay and alkaline soils, and resists heat and drought		50-60' 15-18 m	20-40' 6-12 m
Pine, Jack	Pinus banksiana Lamb	Very Tolerant	Very Tolerant	Dry, sandy, acid – full sun	Grows in soils too poor for most plants	Native	35-50' 10.5-15 m	Spread less than height

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COMMON NAME	SCIENTIFIC NAME	URBAN TOLERANCE	SALT TOLERANCE	SOIL	CONDITONS TOLERATED	NATIVE	HEIGHT	SPREAD
Pine, Mugho	<i>Pinus mugo</i>	Very Tolerant	Very Tolerant	Moist loam in sun or partial shade	Very tolerant to calcareous soil		15-20' 4.5-6 m	25-30' 7.5-9 m
Pine, Red	<i>Pinus resinosa</i>	Very Sensitive	Very Sensitive	Dry, acid, sandy or gravelly – full sun	Dry – susceptible to strong winds – extremely cold-tolerant	Native	50-80' 15-24 m	Variable spread
Pine, Scots	<i>Pinus sylvestris</i>	Sensitive	Sensitive	Well-drained, acid – full sun	Poor, dry but well-drained		30-60' 9-18 m	30-40' 9-12 m
Pine, Swiss Stone	<i>Pinus cembra</i>	Sensitive	Sensitive	Well-drained, slightly acid, loamy soil – full sun			30-40' 9-12 m	15-25' 4.5-7.5 m
Pine, White	<i>Pinus strobus</i>	Sensitive	Sensitive	Fertile, moist, well-drained	Rocky, wet	Native	50-80' 15-24 m	20-40' 6-12 m
Spruce, Bird's Nest	<i>Picea abies nidiformis</i>	Tolerant	Tolerant	Moderately moist, sandy, acid			3-6' 0.9-1.8 m	Spreading equal to height
Spruce, Colorado	<i>Picea pungens</i>	Tolerant	Tolerant	Rich, moist – full sun	Adaptable – more drought-tolerant than other Picea		90-135' 27-41 m	20-30' 6-9 m
Spruce, Colorado Blue	<i>Picea pungens glauca</i>	Tolerant	Tolerant	Rich, moist – full sun	Adaptable – more drought-tolerant than other Picea		90-135' 27-41 m	20-30' 6-9 m
Spruce, Norway	<i>Picea abies</i>	Sensitive	Sensitive	Moderately moist, sandy, acid	Adaptable as long as the soil is sufficiently moist		40-60' 12-18 m	25-30' 7.5-9 m
Spruce, Serbian	<i>Picea omorika</i>	Moderate	Moderate	Deep, rich, moist, well-drained, grows on limestone and heavy peats	Adaptable – likes a dry atmosphere and partial shade		50-60' 15-18 m	20-25' 6-7.5 m
Spruce, White	<i>Picea glauca</i>	Sensitive	Sensitive	Moist loam – best in full sun but tolerant of some shade	Withstands wind, heat, cold, drought and crowding	Native	40-60' 12-18 m	10-20' 3-6 m
Yew	<i>Taxus canadensis</i>	Tolerant	Very Sensitive	Moist, sandy loam - must be well-drained, shade or sun		Native	10-40' 3-12 m	Equal or greater spread

DECIDUOUS SHRUBS

COMMON NAME	SCIENTIFIC NAME	URBAN TOLERANCE	SALT TOLERANCE	SOIL	CONDITIONS TOLERATED	NATIVE	HEIGHT	SPREAD
Alder, Speckled	<i>Alnus rugosa</i>	Sensitive	Sensitive	Moist or wet – full sun or partial shade	Dry		15-20' 4.5-6 m	10-15' 3-4.5 m
Arrowwood	<i>Viburnum dentatum</i>	Tolerant	Moderate	Well-drained – sun or partial shade	Wet		6-8' 1.8-2.4 m	6-15' 1.8-4.5 m
Barberry, Common	<i>Berberis vulgaris</i>	Tolerant	Moderate	Adaptable – best in full sun	Withstands dry conditions		3-6' 0.9-1.8 m	4-7' 1.2-2.1 m
Barberry, Japanese	<i>Berberis thunbergii</i>	Moderate			Dry		3-6' 0.9-1.8 m	3-8' 0.9-2.4 m
Beauty Bush	<i>Kolkwitzia amabilis</i>	Sensitive	Sensitive	Well-drained, pH adaptable – full sun			6-10' 1.8-3 m	Usually slightly smaller in spread
Bog Rosemary	<i>Andromeda polifolia nana</i>	Tolerant	Moderate	Peaty, sandy, which is constantly moist and cool – full sun or light shade	Wet	Native	1-2' 0.3-0.6 m	2-3' 0.6-0.9 m
Bridal-wreath, Spirea	<i>Spiraea prunifolia</i> 'bridalwreath'	Sensitive	Moderate	Most, except wet – full sun, open areas			4-9' 1.2-2.7 m	6-8' 1.8-2.4 m
Buckthorn, Common Sea-Buckthorn	<i>Hippophae rhamnoides</i>	Very Tolerant	Very Tolerant	Relatively infertile, sand with a moist subsoil			9-12' 2.7-3.6 m	10-40' 3-12 m
Buffalo-berry	<i>Shepherdia canadensis</i>	Tolerant	Tolerant	Tolerates very poor soil – sunny, open location	Dry – fixes nitrogen	Native	6-8' 1.8-2.4 m	Spread equal to height
Buffalo-berry, Silver	<i>Shepherdia argentea</i>	Tolerant	Tolerant	Tolerates very poor soils – likes open, sunny location	Extremely cold and drought tolerant	Native	6-10' 1.8-3 m	6-10' 1.8-3 m

PLANT LISTS

COMMON NAME	SCIENTIFIC NAME	URBAN TOLERANCE	SALT TOLERANCE	SOIL	CONDITONS TOLERATED	NATIVE	HEIGHT	SPREAD
Bunchberry	<i>Cornus canadensis</i>	Sensitive	Sensitive	Moist, acid, rich in organic matter – partial or full shade – water until well-established		Native	3-9' .9-2.7 m	10' 3 m
Choke-cherry, Common	<i>Prunus virginiana</i>	Tolerant	Tolerant	Moist, well-drained		Native	25' 7.5 m	20' 6 m
Cotoneaster, Bearberry	<i>Cotoneaster dammari</i>	Tolerant	Tolerant	Well-drained, adaptable	Occurs wild on heaths (peaty) and rocky ground		1-1.5' .3-0.45 m	6' 1.8 m
Cotoneaster, Cranberry	<i>Cotoneaster apiculatus</i>	Tolerant	Medium to high tolerance	Moist, well-drained, acid or alkaline, high pH	Light sandy, heavy clay – withstands drought		3' .9 m	3-6' .9-1.8 m
Cranberry, American	<i>Viburnum trilobum</i>	Moderate	Very Sensitive	Good, well-drained, moist – sun or partial shade	Wet	Native	8-12' 2.4-3.6 m	8-12' 2.4-3.6 m
Currant, Alpine	<i>Ribes alpinum</i>	Very Tolerant	Very Tolerant	Any good soil – full sun or partial shade	Does well in calcareous soils		3-6' 0.9-1.8 m	Spread as wide or wider than height
Currant, Flowering	<i>Ribes aureum</i>	Very Tolerant	Very Tolerant	Any good soil – full sun or partial shade			3-6' 0.9-1.8 m	Spread as wide or wider than height
Dogwood, Bailey, Red-twigged	<i>Cornus baileyi</i> (closely allied to <i>C. sericea</i>)	Sensitive	Sensitive	Sandy		Native	7-9' 2.1-2.7 m	10' 3 m
Dogwood, Flowering	<i>Cornus florida</i>	Very Sensitive	Very Sensitive	Acid, well-drained soil, keep soil cool and moist – partial shade	Full sun – keep soil cool and moist	Native	20' 6 m	Spread equal to or greater than height
Dogwood, Green-twig	<i>Cornus stolonifera</i> 'nitida'	Sensitive	Sensitive	Extremely adaptable to wide range of soil and climatic conditions	Wet, swampy conditions	Native	7-9' 2.1-2.7 m	10' 3 m

PLANT LISTS

COMMON NAME	SCIENTIFIC NAME	URBAN TOLERANCE	SALT TOLERANCE	SOIL	CONDITONS TOLERATED	NATIVE	HEIGHT	SPREAD
Dogwood, Grey	<i>Cornus racemosa</i>	Very Sensitive	Very Sensitive	Moist, well-drained, very adaptable – full shade or sun		Native	10-15' 3-4.5 m	10-15' 3-4.5 m
Dogwood, Pagoda	<i>Cornus alternifolia</i>	Sensitive	Sensitive	Best in colder climates – keep root zone cool, moist and acid	Full sun – best in partial shade	Native	15-20' 4.5-6 m	Spread one and a half times the height
Dogwood, Red-osier or Red-stemmed	<i>Cornus sericea</i> (formerly <i>C. stolonifera</i>)	Sensitive	Sensitive	Moist, extremely adaptable	Wet, swampy conditions	Native	7-9' 2.1-2.7 m	10' 3 m
Dogwood, Yellow-twig, Golden-twig	<i>Cornus sericea</i> (formerly <i>stolonifera</i>) 'flaviramea'	Sensitive	Sensitive	Moist, adaptable		Native	7-9' 2.1-2.7 m	10' 3 m
Elder, American	<i>Sambucus canadensis</i>	Tolerant	Tolerant	Moist	Wet	Native	5-12' 1.5-3.6 m	
Elder, European	<i>Sambucus nigra</i>	Sensitive	Sensitive	Moist	Does not like hot weather		20-30' 6-9m	20' 6m
Elder, Red	<i>Sambucus racemosa</i>	Sensitive	Sensitive	Moist, rich		Native	8-12' 2.4-3.6m	8-12' 2.4-3.6m
Elder, Scarlet	<i>Sambucus pubens</i>	Sensitive	Sensitive	Moist, rocky		Native	12-25' 3.6-7.5m	12-25' 3.6-7.5m
Euonymus americanus, Strawberry Bush	<i>Euonymus americanus</i>	Sensitive	Sensitive	Moist			4-6' 1.2-1.8 m	4-6' 1.2-1.8 m
Euonymus, Colorata	<i>Euonymus fortunei coloratus</i>	Moderate	Sensitive	Most, pH adaptable	Tolerates full sun and heavy shade		4' 1.2 m	6-10' 1.8-3 m
Euonymus, European	<i>Euonymus europaeus</i>	Moderate	Moderate	Moist, well-drained, pH adaptable – full sun, partial shade	A very tough and tolerant plant		12-30' 3.6-9 m	10-25' 3-7.5 m

PLANT LISTS

COMMON NAME	SCIENTIFIC NAME	URBAN TOLERANCE	SALT TOLERANCE	SOIL	CONDITONS TOLERATED	NATIVE	HEIGHT	SPREAD
Euonymus, Winter-creeper, 'Sarcoxie'	Euonymus fortunei 'Sarcoxie'	Tolerant	Moderate	Moist, not swampy or wet, pH adaptable	Full sun to heavy shade		4-6' 1.2-1.8 m	6-10' 1.8-3 m
Euonymus, Winged	Euonymus alatus	Very Sensitive	Very Sensitive	Moist, well-drained, pH adaptable – not drought-tolerant	Very adaptable		15-20' 4.5-6 m	Similar spread
Falsespirea, Ural	Sorbaria sorbifolia	Tolerant	Moderate	Moist, well-drained organic, pH adaptable – full sun, light shade			5-10' 1.5-3 m	Spread equal to height
Forsythia	Forsythia ovata	Tolerant	Tolerant	Good and loose, pH adaptable – full sun	Very adaptable		4-6' 1.2-1.8 m	8-10' 2.4-3 m
Forsythia, 'Early Ottawa'	Forsythia ovata 'Early Ottawa'	Tolerant	Tolerant	Good and loose, pH adaptable – full sun	Very adaptable	Native	4-6' 1.2-1.8 m	8-10' 2.4-3 m
Honey-suckle, Blueleaf	Lonicera korolkowii	Moderate	Sensitive	ALL honey-suckles: Good, loamy, moist, well-drained, not wet – full sun to partial shade	Adaptable to many soils and pH levels – tolerates dry conditions		6-12' 1.8-3.6 m	Spread about equal to height
Honey-suckle, 'Clavey's Dwarf'	Lonicera xylosteum 'Claveyi'	Moderate	Sensitive	See above	See above		3-6' 0.9-1.8 m	4' 1.2 m
Honey-suckle, Northern Dwarf Bush	Lonicera Diervilla L	Moderate	Moderate	See above		Native	3-6' 0.9-1.8 m	4' 1.2 m
Honey-suckle, European Fly	Lonicera xylosteum	Tolerant	Tolerant	See above		Native	8-10' 2.4-3 m	10-12' 3-3.6 m

PLANT LISTS

COMMON NAME	SCIENTIFIC NAME	URBAN TOLERANCE	SALT TOLERANCE	SOIL	CONDITONS TOLERATED	NATIVE	HEIGHT	SPREAD
Honey-suckle, Japanese (this is a twining vine)	Lonicera japonica	Sensitive	Sensitive	ALL honey-suckles: Good, loamy, moist, well-drained, not wet – full sun to partial shade	Adaptable to many soils and pH levels – tolerates dry conditions		20-30' 6-9 m	
Honey-suckle, 'Morrow'	Lonicera morrowii	Moderate	Moderate	See above			6-8' 1.8-2.4 m	8-10' 2.4-3 m
Honey-suckle, Tartarian	Lonicera tartarica	Tolerant	Tolerant	See above			10-12' 3-3.6 m	10' 3 m
Lilac, Common	Syringa vulgaris	Moderate	Moderate	ALL Lilacs Loose, well-drained and slightly acid – full sun, with good air movement	There are 400-900 different clones of Syringa vulgaris! pH- adaptable – prefers cooler summers.		8-15' 2.4-4.5 m	6-12' 1.8-3.6 m
Mock Oranges	Philadelphus spp.	Tolerant	Moderate	Most, but prefers moist, well-drained soil – full sun or light shade			10-12' 3-3.6 m	10-12' 3-3.6 m
Nannyberry or Sheepberry	Viburnum lentago	Moderate	Moderate	Moist or dry – sun or shade	Highly adaptable and very durable	Native	15-18' 4.5-5.4 m	6-10' 1.8-3 m
Ninebark, Common	Physocarpus opulifolius	Very Tolerant	Tolerant	Adapts well to difficult situations – full sun or partial shade	Withstands acid and alkaline soils and dry situations	Native	5-10' 1.5-3 m	6-10' 1.8-3 m
Pea Shrub, Siberian	Caragana arborescens	Very Tolerant	Very Tolerant	Tolerates poor soils, drought, alkalinity – nitrogen-fixing plant	Dry, sweeping winds		15-20' 4.5-6 m	12-18' 3.6-5.4 m

PLANT LISTS

COMMON NAME	SCIENTIFIC NAME	URBAN TOLERANCE	SALT TOLERANCE	SOIL	CONDITONS TOLERATED	NATIVE	HEIGHT	SPREAD
Potentilla or Bush Cinquefoil	Potentilla fruticosa varieties	Very Tolerant	Very Tolerant	Fertile, moist, well-drained – partial shade, full sun for best flowering	Wet or dry, open ground especially that of calcareous origin	Native to northern hemisphere	1-6' 0.3-1.8 m depending on variety	2-8' 0.6-2.4 m depending on variety
Privet, Amur	Ligustrum amurense	Sensitive	Sensitive	Any except very wet, pH adaptable – full sun and up to 50% shade	Dry		12-15' 3.6-5.4 m	Spread 2/3 of height
Quince, Flowering	Chaenomeles speciosa	Sensitive	Sensitive	Wide range – full sun or partial shade	Dry – does not tolerate soils with a high pH		6-10' 1.8-3 m	6-10' 1.8-3 m
Roses	Rosa spp.	Very Sensitive	Very Sensitive					
Rose, Rugosa	Rosa rugosa	Moderate	Moderate	Well-drained, slightly acidic – sunny and open	Dry, pH adaptable	Native	4-6' 1.2-1.8 m	4-6' 1.2-1.8 m
Sand Cherry, Western Sand Cherry	Prunus besseyi	Tolerant	Moderate	Well-drained	Tolerates rather inhospitable, hot, dry conditions	Native	4-6' 1.2-1.8 m	4-6' 1.2-1.8 m
Service-berry, Saskatoon	Amelanchier alnifolia	Very Tolerant	Very Tolerant	Alkaline	Harsh climate	Native	3-18' 0.9-5.4 m	Variable
Snowberry, Common	Symphoricarpos albus	Very Tolerant	Sensitive	Very tolerant of any soil, native on limestone and clay – full sun to medium shade	Very adaptable	Native	3-6' 0.9-1.8 m	3-6' 0.9-1.8 m
Spirea, 'Anthony Waterer'	Spiraea x bumalda 'Anthony Waterer'	Sensitive	Moderate	Tolerant of many soils except extremely wet – full sun, open areas			2-4' 0.6-1.2 m	Spread is one and a half times to twice the height
Spirea, Bridal-wreath	Spiraea prunifolia 'bridalwreath'	Sensitive	Moderate	Most, except wet – full sun, open areas			4-9' 1.2-2.7 m	6-8' 1.8-2.4 m

PLANT LISTS

COMMON NAME	SCIENTIFIC NAME	URBAN TOLERANCE	SALT TOLERANCE	SOIL	CONDITONS TOLERATED	NATIVE	HEIGHT	SPREAD
Falsespirea, Ural	<i>Sorbaria sorbifolia</i>	Tolerant	Moderate	Moist, well-drained, organic, pH adaptable – full sun or light shade			5-10' 1.5-3 m	Spread equal to height
Spirea, Vanhoutte	<i>Spiraea x vanhouttei</i>	Very Tolerant	Very Tolerant	Most, except wet – full sun, open areas			6-8' 1.8-2.4 m	10-12' 3-3.6 m
Sumac, Fragrant	<i>Rhus aromatica</i>	Moderate	Sensitive	Prefers acidic – full sun or partial shade	Adaptable		3-6' 0.9-1.8 m	6-10' 1.8-3 m
Sumac, Staghorn	<i>Rhus typhina</i>	Very Tolerant	Tolerant	Well-drained – not a plant for poorly-drained soil	Adaptable, tolerates very dry, sterile soil		15-25' 4.5-7.5 m	Spread equal to or greater than height
Viburnum, Black Haw	<i>Viburnum prunifolium</i>	Moderate	Moderate	Adaptable to many soil types – sun or shade	Dry		12-15' 3.6-4.5 m	9-12' 2.7-3.6 m
Wayfaring Tree	<i>Viburnum lentana</i>	Very Tolerant	Very Tolerant	Well-drained, loamy – sun or 50% shade	Withstands calcareous and dry soils		10-15' 3-4.5 m	10-15' 3-4.5 m
Weigela, Old Fashioned	<i>Weigela florida</i>	Moderate	Sensitive	Well-drained – full sun	Very adaptable		6-9' 1.8-2.7 m	9-12' 2.7-3.6 m
Winter-berry, Common	<i>Ilex verticillata</i>	Very Sensitive	Very Sensitive	Light and heavy – prefers moist, acid soil (pH 4.5-5.5) – full sun or partial shade	Adaptable to wet conditions	Native	6-10' 1.8-3 m	Spread equal to height
Witch Hazel, Common	<i>Hamamelis virginiana</i>	Moderate	Moderate	Moist – avoid extremely dry situations – full sun or partial shade		Native	20-30' 6-9 m	20-25' 6-7.5 m



VINES

COMMON NAME	SCIENTIFIC NAME	URBAN TOLERANCE	SALT TOLERANCE	SOIL	CONDITIONS TOLERATED	NATIVE	NOTES	HEIGHT (LENGTH)
Bittersweet, American	<i>Celastrus scandens</i>	Tolerant	Moderate	Most	Semi-shade	Native	Both male and female plants are needed for berries	20-30' 6-9 m
Boston Ivy	<i>Parthenocissus tricuspidata</i>	Tolerant	Moderate	Most		Native	Tidier growth habit than Virginia Creeper	20' 6 m
Dutchman's Pipe	<i>Aristolochia durior</i> or <i>Aristolochia macrophylla</i>	Tolerant	Tolerant	Rich, moist, well-drained	Does not tolerate dry soil	Native	Soil should not be allowed to dry out	20' 6 m
Grape, Wild	<i>Vitis riparia</i>	Tolerant	Tolerant	Rich, well-drained		Native	Good for an edible garden	20' 6 m
Honey-suckle, 'Dropmore Scarlet'	<i>Lonicera 'Dropmore Scarlet'</i>	Tolerant	Moderate	Most, not wet	Prefers sunny location	Developed in Winnipeg, Canada	Attracts hummingbirds	8' 2.4 m
Russian Vine or Silver Lace Vine	<i>Polygonum baldschuanicum</i> or <i>Fallopia baldschuanicum</i>	Tolerant	Moderate	Most, well-drained	Tolerates shade, but flowers better in full sun		This plant is heavy – needs a strong structure	50' 15 m
Traveller's Joy	<i>Clematis vitalba</i>	Moderate	Moderate		Does not tolerate very dry sites		Seedheads decorative – plant needs good support	33-40' 10-12 m
Virginia Creeper	<i>Parthenocissus quinquefolia</i>	Very Tolerant	Very Tolerant	Most		Native	Rampant grower – covers fences quickly	20' 6 m

Ground Covers

COMMON NAME	SCIENTIFIC NAME	HEIGHT
Ajuga has spikes of deep blue flowers which appear in late spring over shiny rosettes of dark purplish-green leaves. Multi-coloured cultivars are available. 'Braunherz' is particularly resistant to insect attacks.	Ajuga reptans	4" 10 cms
Blue Fescue has very fine-textured, blue-green, dense foliage. It can be used as a ground cover to replace lawn in little-used areas.	Festuca ovina v. glauca	16" 40 cms
Creeping Juniper grows slowly, but it is excellent for covering slopes of well-drained rocky soil. It needs full sun, dry soil and good air circulation.	Juniperus horizontalis	8-24" 20-60 cms
Creeping Phlox forms dense mats of spreading stems and has many small blue, pink or white flowers in the spring. It needs full sun, well-drained soil, and some weeding. The centre of large plants tends to die off.	Phlox stolonifera	6" 15 cms
Crown Vetch will thrive in sunny places that are too dry for grass. Plants form an intertwined mass which flowers all summer.	Coronilla varia	12" 30 cms
Drooping Sedge is a tall, arching plant. It needs plenty of space and is very handsome year-round. Great quantities of delicate drooping stems of green flowers are produced in the spring and remain throughout the season. This sedge is perfect if you have a large shady area where moisture is assured.	Carex pendula	2-4 feet 60-120 cms
Foam Flower grows in medium to heavy shade and rich moist soil. Spikes of white flowers appear in the spring.	Tiarella cordifolia	10" 25 cms
Goutweed spreads rapidly by underground roots and grows in full sun to medium shade. It has cream-coloured leaves. Control growth by mowing around the edge of the path two or three times a year.	Aegopodium podagraria	6" 15 cms
Japanese Spurge grows best in light to dark shade and well-drained soil. Some have variegated leaves. Control spread by mowing around the edge of the planting as required.	Pachysandra terminalis	6" 15 cms
Lily-of-the-Valley spreads fairly quickly. Its thickly-growing upright leaves suppress almost all other plants when grown in moist soil and in medium to deep shade. The highly fragrant flowers appear in the spring.	Covallaria majalis	8" 20 cms
Periwinkle prefers medium to deep shade. It has shiny evergreen leaves, blue flowers in the spring and, once established, withstands dry conditions. Young plants must be watered until they become established. Some weeding may be required.	Vinca minor	6" 15 cms
Sweet Woodruff likes moist, shady spots and is useful for places where grass will not grow. It has whorled green foliage. Tiny white flowers appear in the spring.	Galium odoratum	18" 45 cms
Three-toothed Cinquefoil is a good creeper for rocky sites and dry sunny slopes. It has small white flowers in early summer with leaves turning reddish in fall.	Potentilla tridentata	10" 25 cms
Thyme is a low-growing ground cover for full sun and dry sandy soil. It is especially useful between paving stones. The leaves are scented and the flowers appear in late spring.	Thymus montanus or T. serpyllum	1-4" 2-10 cms

Plants for Butterflies

COMMON NAME	SCIENTIFIC NAME	
Alfalfa or Lucerne	<i>Medicago sativa</i>	Cultivated
Alyssum	<i>Alyssum maritimum</i>	Cultivated
Alyssum, Hoary	<i>Berteroa incana</i>	Introduced
Ashes	<i>Fraxinus</i> spp.	Native
Aster, Panicked	<i>Aster lanceolatus</i>	Native
Aster, New England	<i>Aster novae-angliae</i>	Native
Aster, Purple-stemmed	<i>Aster puniceus</i>	Native
Aster, Ciliolate	<i>Aster ciliolatus</i>	Native
Aster, Large-leafed	<i>Aster macrophyllus</i>	Native
Aster, Heart-leafed	<i>Aster cordifolius</i>	Native
Bachelor's Buttons or Cornflower	<i>Centaurea cyanus</i>	Cultivated
Basswood or American Linden	<i>Tilia americana</i>	Native
Bee-balm	<i>Monarda didyma</i>	Native
Bergamots, Wild	<i>Monarda</i> spp.	Native
Bindweed, Field	<i>Convolvulus arvensis</i>	Introduced
Bindweed, Hedge	<i>Convolvulus sepium</i>	Native
Black-eyed Susan	<i>Rudbeckia hirta</i>	Native
Blazing-star	<i>Liatris ligulistylis</i>	Native
Buckeye, Ohio	<i>Aesculus glabra</i>	Native
Butterfly Bush	<i>Buddleia davidii</i>	Cultivated
Butterflyweed	<i>Asclepias tuberosa</i>	Native
Catnip	<i>Nepeta cataria</i>	Introduced
Chicory	<i>Cichorium intybus</i>	Introduced
Chokecherry	<i>Prunus maackii</i>	Native
Cinquefoil, Shrubby	<i>Potentilla paradoxa</i>	Introduced
Clover, Red	<i>Trifolium pratense</i>	Introduced
Clover, White Sweet	<i>Melilotus alba</i>	Introduced
Clover, White	<i>Trifolium repens</i>	Introduced
Coneflower, Purple	<i>Echinacea purpurea</i>	Native
Coreopsis, Lance-leaved	<i>Coreopsis lanceolata</i>	Native
Cosmos	<i>Cosmos bipinnatus</i>	Cultivated

PLANT LISTS

COMMON NAME	SCIENTIFIC NAME	
Daylily	<i>Heemerocallis fulva</i>	Cultivated
Dill	<i>Anethum graveolans</i>	Cultivated
Dogbane, Spreading	<i>Apocynum androsaemifolium</i>	Native
Dogwoods	<i>Cornus</i> spp.	Native
Elderberries	<i>Sambucus</i> spp.	Native / Cultivated
Fireweed	<i>Epilobium angustifolium</i>	Native
Fleabane	<i>Erigeron</i> spp.	Native
Forget-me-not	<i>Myosotis scorpioides</i>	Cultivated
Garlic Chives	<i>Allium tuberosum</i>	Introduced
Gayfeathers	<i>Latris</i> spp.	Native
Geranium, Wild	<i>Geranium</i> spp.	Native
Giant Hyssops	<i>Agastache</i> spp.	Native / Cultivated
Goldenrods	<i>Solidago</i> spp.	Native
Hawkweeds	<i>Hieracium</i> spp.	Native
Heal-all	<i>Prunella vulgaris</i>	Introduced
Hollyhock	<i>Althaea rosea</i>	Introduced
Honeysuckles	<i>Lonicera</i> spp.	Native / Cultivated
Indian Blanket	<i>Gailardia pulchella</i>	Native
Knapweed	<i>Centaurea</i> spp.	Introduced
Knapweed, American	<i>Centaurea americana</i>	Native
Knotweeds	<i>Polygonum</i> spp.	Native
Lavender, English	<i>Lavendula vera</i> (<i>L. angustifolia</i>)	Cultivated
Lead Plant	<i>Amorpha canescens</i>	Native
Lilac, Common	<i>Syringa vulgaris</i>	Cultivated
Lupine	<i>Lupinus perennis</i>	Cultivated
Marigold, French	<i>Tagetes patula</i>	Cultivated
Meadowsweet	<i>Spiraea latifolia</i>	Native
Milk-vetch	<i>Astragalus canadensis</i>	Native
Milkweed, Common	<i>Asclepias syriaca</i>	Native
Mints	<i>Mentha</i> spp.	Native / Cultivated
Mockoranges	<i>Philadelphus</i> spp.	Cultivated
Morning Glory, Common	<i>Ipomoea purpurea</i>	Introduced
Nannyberry	<i>Viburnum lentago</i>	Native
Nasturtium	<i>Tropaeolum majus</i>	Cultivated

PLANT LISTS

COMMON NAME	SCIENTIFIC NAME	
Nasturtium, Trailing	Tropaeolum lobbianum	Cultivated
New Jersey Tea	Ceanothus americanus	Native
Ninebark	Physocarpus opulifolius	Native
Ox-eye Daisy	Chrysanthemum leucanthemum	Introduced
Parsley	Petroselinum crispum	Cultivated
Pea, Everlasting	Lathyrus latifolius	Cultivated
Pea, Sweet	Lathyrus odoratus	Cultivated
Pearly Everlasting	Anaphalis margaritacea	Native
Phlox	Phlox spp.	Native / Cultivated
Pinks	Dianthus spp.	Native / Cultivated
Poplars	Populus spp.	Native
Puccoon, Hoary	Lithospermum canescens	Native
Pussytoes, Field	Antennaria neglecta	Native
Queen Anne's Lace	Daucus carota	Introduced
Ragworts	Senecio spp.	Native
Sages	Salvia spp.	Native / Cultivated
Strawberry, Common	Fragaria virginiana	Native
Sumac, Fragrant	Rhus aromatica	Native
Sumac, Smooth	Rhus glabra	Native
Sumac, Staghorn	Rhus typhina	Native
Sunflowers	Helianthus spp.	Native / Cultivated
Sweet William	Dianthus barbatus	Cultivated
Touch-me-not	Impatiens capensis	Native
Vervain, Blue	Verbena hastata	Native
Vetch, Crown	Coronilla varia	Cultivated
Vetch, Purple	Vicia americana	Native / Cultivated
Vetchling	Lathyrus palustris	Native
Violets	Viola spp.	Native / Cultivated
White Snakeroot	Eupatorium rugosum	Native
Willow, Pussy (male plants)	Salix discolor	Native
Wolfberry	Symphoricarpos occidentalis	Native
Yarrow, Common	Achillea millefolium	Native
Zinnias	Zinnia spp.	Native

Plants for Caterpillars

Grow plants for caterpillars as well as for butterflies!

PLANTS		COMMON BUTTERFLIES
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PLANT FOOD FOR CATERPILLARS		COMMON BUTTERFLIES WHOSE LARVAE FEED ON THESE PLANTS
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COMMON NAME	SCIENTIFIC NAME		COMMON NAME	SCIENTIFIC NAME
Ashes	Fraxinus spp.	Native	Canadian Tiger Swallowtail	Papilio canadensis
Aspens	Populus spp.	Native, Introduced	White Admiral	Limenitis arthemis
Asters	Aster spp.	Native	Northern Crescent	Phyciodes cocyta
Birches	Betula spp.	Native	White Admiral	Limenitis arthemis
Broccoli, Cabbage, Cauliflower	Brassicaceae spp.	Cultivated	Cabbage White	Pieris rapae
Chokecherry Cherries	Prunus Maackii Prunus spp.	Native	Spring Azure Canadian Tiger Swallowtail	Celastrina ladon Papilio canadensis
Composites: Thistles Knapweed Burdocks Sunflowers Wormwood	Asteraceae: Cirsium spp. and Carduus spp. Centauria spp. Arctium spp. Helianthus spp. Artemisia spp.	Native, Introduced	Painted Lady	Vanessa cardui
Currants and Gooseberries	Ribes spp.	Native, Introduced	Grey Comma	Polygonia progne
Dill	Anethum graveolans	Cultivated	Black Swallowtail	Papilio polyxenes
Dogwoods	Cornus spp.	Native	Spring Azure	Celastrina ladon
Elms	Ulmus spp.	Native	Mourning Cloak	Nymphalis antiopa
Grasses: Wild Oats Purpletop Grass Bluestems	Avena fatua Tridens flavus Andropogon spp.	Native	Common Wood Nymph	Cercyonis pegala

PLANT LISTS

COMMON NAME	SCIENTIFIC NAME		COMMON NAME	SCIENTIFIC NAME
Hackberries	Celtis spp.	Native	Mourning Cloak	Nymphalis antiopa
Legumes (Clovers and Alfalfas)	Fabaceae spp.	Cultivated	Clouded Sulphur Orange Sulphur Silvery Blue	Colias philodice Colias eurytheme Glaucopsyche lygdamus
Milkweeds	Asclepias spp.	Native	Monarch	Danaus plexippus
Nettles – includes Stinging Nettle (Urtica dioica)	Urtica spp. Urtica dioica	Native, Introduced	Red Admiral Milbert's Tortoiseshell	Vanessa atalanta Nymphalis milberti
Oaks (also Butternut and Walnuts)	Quercus spp.	Native	Banded Hairstreak	Satyrium calanus
Parsley	Petroselinum crispum	Cultivated	Black Swallowtail	Papilio polyxenes
Queen Anne's Lace	Daucus carota	Introduced	Black Swallowtail	Papilio polyxenes
Rock Cress	Arabis spp.	Cultivated	Mustard White	Pieris oleracea
Viburnums	Virburnum spp.	Native	Spring Azure	Celastrina ladon
Violets	Viola spp.	Native	Silver-bordered Fritillary Great Spangled Fritillary	Boloria selene Speyeria cybele
Poplars and Cottonwoods	Populus spp.	Native, Introduced	White Admiral Viceroy Mourning Cloak	Limenitis arthemis Limenitis archippus Nymphalis antiopa
Willows	Salix spp.	Native, Introduced	White Admiral Viceroy Mourning Cloak	Limenitis arthemis Limenitis archippus Nymphalis antiopa

Native Plants for Hummingbirds

COMMON NAME	SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME
Beard-tongues	Penstemon	Lady's Slipper, Yellow	Cyripedium calceolus
Bee-balm	Monarda didyma	Peas, Sweet	Lathyrus odoratus
Cardinal Flower	Lobelia cardinalis	Phloxes	Phlox spp.
Columbine, Wild	Aquilegia canadensis	Sage, Lyre-leafed	Salvia lyrata
Honeysuckles	Lonicera spp.	Touch-me-not, Spotted	Impatiens capensis
Jewelweed	Impatiens capensis	Trumpet Creeper	Campsis radicans

Plants for Rock Gardens

Dwarf shrubs and low-growing forms of evergreens

COMMON NAME	SCIENTIFIC NAME	
Barberries, Creeping	Berberis spp.	Native
Boxwoods	Buxus spp.	Native
Cotoneasters	Cotoneaster spp.	Introduced / Cultivated
Euonymus	Euonymus spp.	Introduced / Cultivated
False Cypresses	Chamaecyparis spp.	Native / Introduced
Junipers	Juniperus spp.	Native / Introduced
Hemlocks	Tsuga spp.	Native
Pines	Pinus spp.	Native / Introduced
Spruces	Picea spp.	Native / Introduced
Tamarack or Larch	Larix spp.	Native / Introduced

Perennials with evergreen foliage to add winter interest

Pines	Pinus spp.	Native / Introduced
Spruces	Picea spp.	Native / Introduced
Tamarack or Larch	Larix spp.	Native / Introduced

Plants for shaded rock gardens

Fern, Christmas	Polystichum acrostichoides	Native
Fern, Cinnamon	Osmunda cinnamomea	Native
Fern, Deer	Blechnum spicant	Native
Fern, Evergreen Wood	Dryopteris intermedia	Native
Fern, Hay-scented	Dennstaedtia punctilobula	Native
Fern, Maidenhair	Adiantum pedatum	Native
Fern, Marginal Shield	Dryopteris marginalis	Native
Fern, Ostrich	Matteuccia struthiopteris	Native
Fern, Sensitive	Onoclea sensibilis	Native
Lilies, Plantain	Hosta spp.	Introduced / Cultivated
Shade-loving wildflowers and bulbs		Native / Introduced

PLANT LISTS

Some spring- and summer-blooming perennials for rock gardens

COMMON NAME	SCIENTIFIC NAME	
Ajuga	Ajuga reptans	Introduced / Cultivated
Basket-of-gold	Aurinia saxatilis	Introduced / Cultivated
Bellflowers, Dwarf	Campanula spp.	Introduced / Cultivated
Catmints	Nepeta spp.	
Columbines	Aquilegia spp.	Native
Coral Bells	Heuchera sanguinea	Introduced / Cultivated
Creeping Jenny	Lysimachia nummularia	Cultivated
Flag, Sweet	Acorus calamus	Native
Flag, Yellow	Iris pseudacorus	Introduced / Cultivated
Harebell, Carpathian	Campanula carpatica	Introduced / Cultivated
Iris, Crested Dwarf	Iris cristata	Native
Iris, Dwarf	Iris pumila	Native
Iris, Siberian	Iris siberica	Introduced / Cultivated
Phlox, Creeping	Phlox subulata	Introduced / Cultivated
Pinks	Dianthus spp.	Introduced / Cultivated
Primroses	Primula spp.	Native / Introduced
Saxifrages	Saxifraga spp.	Native / Introduced
Saxifrage, Early	Saxifraga virginensis	Native / Introduced
Thymes	Thymus spp.	Introduced / Cultivated
Windflowers	Anemone spp.	Native

Low-growing grasses for rock gardens

COMMON NAME	SCIENTIFIC NAME		HEIGHT	SPREAD
Alpine Bluegrass	Poa alpina	Introduced	20 cm	8"
Blue Fescue	Festuca ovina v. glauca	Introduced	15-30 cm	6-12"
Blue Hair Grass	Koeleria glauca	Native	35 cm	14"
Bottlebrush, Squirrel-tail	Sitanon hystrix	Native	15-30 cm	6-12"
Large Blue Fescue	Festuca pulchella	Introduced	40 cm	16"
Little Bluestem	Schizachyrium scoparium	Native	30-90 cm	12-36"
Sweet Grass	Hierochloe odorata	Native	40 cm	16"

PLANT LISTS

Tall grasses to create a backdrop for rock gardens

COMMON NAME	SCIENTIFIC NAME		HEIGHT	HEIGHT
Big Bluestem	<i>Andropogon gerardii</i>	Native	150-180 cm	60-72"
Blue-Bunch Wheatgrass	<i>Elymus spicatus</i>	Native	60-90 cm	24-36"
Brome Grass or Fringed Prairie Grass	<i>Bromus kalmii</i>	Native	100 cm	40"
Canada Wild Rye	<i>Elymus canadensis</i>	Native	180 cm	72"
Fountain Grass	<i>Pennisetum alopecuroides</i>	Native	60-120 cm	24-48"
Great Basin Wild Rye	<i>Elymus cinereus</i>	Native	90-150 cm	36-60"
Indian Grass	<i>Sorghastrum nutans</i>	Native	180 cm	72"
Indian Rice Grass	<i>Oryzopsis hymenoides</i>	Native	40-90 cm	16-36"
Little Bluestem	<i>Schizachyrium scoparium</i>	Native	30-90 cm	12-36"
Moor Grass	<i>Molinia caerulea</i>	Native	90 cm	36"
Mountain Brome Grass	<i>Bromus marginatus</i>	Native	60-100 cm	24-40"
Prairie Cord Grass	<i>Spartina pectinata</i>	Native	150 cm	60"
Prairie Drop Seed	<i>Sporobolus heterolepis</i>	Native	100 cm	40"
Quaking Grass	<i>Briza media</i>	Native	75 cm	30"
Sweet Grass	<i>Hierochloe odorata</i>	Native	40 cm	16"
Switch Grass	<i>Panicum virgatum</i>	Native	120-240 cm	48-96"
Tufted Hair Grass	<i>Deschampsia caespitosa</i>	Native	60-90 cm	24-36"

Water plants for moist rock gardens

Fern, Marsh	<i>Thelypteris palustris</i>	Introduced
Flag, Sweet	<i>Acorus calamus</i>	Native
Flag, Yellow	<i>Iris pseudacorus</i>	Introduced / Cultivated
Lily, Small Pond	<i>Nuphar microphyllum</i>	Introduced / Cultivated
Lotus	<i>Nelumbo nucifera</i> or <i>Nelumbo lutea</i>	Introduced / Cultivated
Marigold, Marsh	<i>Caltha palustris</i>	Native
Pickerel Weed	<i>Pontederia cordata</i>	Native
Primrose, Japanese	<i>Primula japonica</i>	Introduced / Cultivated
Rice, Wild	<i>Zizania aquatica</i>	Native
Sedge, Gray's or Morning Star Sedge	<i>Carex grayii</i>	Native
Sedge, Palm-Branched	<i>Carex muskingumensis</i>	Native
Turtlehead, Red	<i>Chelone lyonii</i>	Introduced / Cultivated

Herbaceous Plants for Moist Soil

COMMON NAME	SCIENTIFIC NAME	
Anemone, Canada	<i>Anemone canadensis</i>	Native
Arum or Arrow or Tuckahoe	<i>Peltandra virginica</i>	Native
Arum, Water or Wild Calla	<i>Calla palustris</i>	Native
Aster, Flat-topped	<i>Aster umbellatus</i>	Native
Beggar-ticks	<i>Bidens tripartita</i>	Native
Boneset	<i>Eupatorium perfoliatum</i>	Native
Bedstraw, Northern	<i>Galium boreale</i>	Native
Cardinal Flower, White	<i>Lobelia siphilitia</i>	Native
Cardinal Flower	<i>Lobelia cardinalis</i>	Native
False Dragon Head or Obedient Plant	<i>Physostegia virginiana</i>	Native
Fern, Cinnamon	<i>Osmunda cinnamomea</i>	Native
Fern, Marsh	<i>Dryopteris thelypteris</i>	Introduced
Fern, Ostrich	<i>Matteuccia strathiopteris</i>	Native
Fern, Royal	<i>Osmunda regalis</i>	Introduced
Gentian, Bottled or Closed	<i>Gentiana andrewsii</i>	Native
Gentian, Fringed	<i>Gentiana crinita</i>	Native
Grass of Parnassus	<i>Parnassia glauca</i>	Native
Grasses, Yellow-eyed	<i>Xyris</i> spp.	Native
Green Dragon	<i>Arisaema dracontium</i>	Native
Jack-in-the-Pulpit	<i>Arisaema triphyllum</i>	Native
Joe Pyeweed	<i>Eupatorium maculatum</i>	Native
Lily, Canada	<i>Lilium canadensis</i>	Native
Loosestrife, Yellow	<i>Lysimachia terrestris</i>	Introduced / Cultivated
Mallow, Swamp Rose	<i>Hibiscus palustris</i>	Native
Marigold, Bur	<i>Bidens laevis</i>	Native
Marigold, Marsh or Cowslip	<i>Caltha palustris</i>	Native
Meadow-rue, Tall	<i>Thalictrum pubescens</i>	Native
Meadow-rue, Purple	<i>Thalictrum dasycarpum</i>	Native

Herbaceous Plants for Moist Soil (continued)

COMMON NAME	SCIENTIFIC NAME	
Meadowsweet, Narrow-leaved	<i>Spiraea alba</i>	Native
Milkweed, Swamp	<i>Asclepias incarnata</i>	Native
Monkey Flower, Squared-stemmed	<i>Mimulus ringens</i> or <i>Mimulus alatus</i>	Native
Panicgrass	<i>Panicum lanuginosum</i>	Native
Primrose	<i>Primula mistassinica</i>	Introduced / Cultivated
Sedges	Cyperaceae family	Native
Skunk Cabbage	<i>Symplocarpus foetidus</i>	Native
Smartweed	<i>Polygonum lapathifolium</i> L.	Native
Speedwell, American	<i>Veronica scutellata</i> or <i>Veronica anagallis-aquatica</i> or <i>Veronica americana</i>	Native / Cultivated
Stargrass, Yellow	<i>Hypoxis hirsuta</i>	Native
St. John's Wort	<i>Hypericum virginicum</i> or <i>Hypericum mutilum</i>	Native
Turtlehead	<i>Chelone glabra</i>	Native
Violet, Lance-leaved	<i>Viola lanceolata</i>	Native
Water Stargrass	<i>Heteranthera dubia</i>	Native
Winterberry or Canada Holly	<i>Ilex verticillata</i>	Native

Non-Native Aggressively Invasive Plants

COMMON NAME	SCIENTIFIC NAME	
Buckthorn, Common	<i>Rhamnus cathartica</i>	<p>All of these plants, with the exception of the Norway Maple, should be removed as soon as you notice them because they are highly invasive.</p> <p>Norway Maples are planted extensively in urban areas because they are tolerant of air pollution and road salt, and will do well in most soils. However, they should not be planted in rural areas or anywhere near urban natural areas because their many thousands of seeds will sprout and soon crowd out other plants.</p>
Buckthorn, Glossy	<i>Frangula alnus</i>	
Dog-strangling Vine, Swallowwort	<i>Cynanchum nigrum</i>	
Frog-bit, European	<i>Hydrocharis morus-ranae</i>	
Loosestrife, Purple	<i>Lythrum salicaria</i>	
Mustard, Garlic	<i>Alliaria petiolata</i>	
Maple, Norway	<i>Acer platanoides</i>	
Rush, Flowering	<i>Butomus umbellatus</i> Core	