

VII

**ACCEPTABLE
PLANT MATERIALS**



A. LARGE TREES

A/LT LARGE TREES (Over 50 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS						PLANT USES								COMMENTS	
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	STREET TREE	RECOMMENDED PLANTING STRIP WIDTH	PROPERTY PERIMETER	VEHICULAR USE AREA PERIMETER	VEHICULAR USE AREA INTERIOR	SIGHT TRIANGLE	SCREENING	TREE PROTECTION ORDINANCE		OPEN SPACE USE
<u>Abies concolor</u> White Fir	E	30' to 50'	15' to 30'	Pyramidal	X	X			X				X			Can be used as a screen between conflicting land uses; doesn't meet other ordinance requirements because of low branch pattern; best used in large areas where there is room for plant development.
* <u>Acer negundo</u> Box Elder	D	30' to 50'	30' to 50'											X	X	Riparian zone only plantings. Will naturally seed in if no mow zone is established by stream.
* <u>Acer saccharinum</u> Silver Maple	D	50' to 70'	40' to 50'												X	Surface roots, especially in compacted soil. Don't cut into heartwood – decays rapidly – otherwise a tough tree.
* <u>Acer saccharum</u> Sugar Maple	D	60' to 75'	50' to 60'	Rounded	X	X	X	7'+	X	X	X			X	X	One of best larger lawn and shade trees; not for downtown or other crowded areas. Possible use in suburban areas as a street tree. Intolerant of road salt. Subspecies 'Nigrum' is more drought tolerant.
<u>Alnus glutinosa</u> Black Alder	D	40' to 60'	20' to 40'	Pyramidal to Oval	X	X			X	X	X			X	X	Good tree for any wet or clay soils; tolerates most adverse conditions. Nitrogen fixator. Can be invasive in wet areas.
* <u>Aesculus glabra</u> Ohio Buckeye	D	40' to 70'	20' to 40'	Rounded										X	X	All parts poisonous if ingested.
* <u>Aesculus octandra (A. flava)</u> Yellow Buckeye	D	60' to 75'	20' to 40'	Oval										X	X	All parts poisonous if ingested.

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* <u>Betula lenta</u> Sweet Birch		40' to 50'	30' to 40'	Pyramidal To Rounded					X	X	X			X	X	Intolerant of polluted urban areas; best birch for yellow fall color good for large, naturalized areas. Nice bark.
* <u>Betula nigra</u> River Birch	D	40' to 70'	40' to 60'	Oval to Rounded		X			X	X	X			X	X	More adaptable and disease resistant than other birch trees; handsome tree; good for wet areas.
<u>Carpinus betulus</u> European Hornbeam 'Asplenifolia' 'Columnaris' 'Fastigiata'	D	40' to 60'	30' to 50'	Oval		X			X	X	X				X	Must be limbed up to meet <i>Landscape Ordinance</i> requirements; outstanding specimen tree; there are many excellent cultivars that deserve use.
* <u>Carya cordiformis</u> Bitternut Hickory	D	50' to 75'	20' to 30'	Irregular										X	X	Can be planted by streams.
* <u>Carya glabra</u> Pignut Hickory	D	50' to 60'	25' to 35'	Oval										X	X	
* <u>Carya illinoensis</u> Pecan	D	70' to 100'	40' to 75'	Oval										X	X	
* <u>Carya laciniosa</u> Shellbark Hickory	D	60' to 80'	20' to 30'	Spreading										X	X	
* <u>Carya ovata</u> Shagbark Hickory	D	60' to 80'	40' to 60'	Oblong										X	X	Can be planted by streams.
* <u>Catalpa speciosa</u> Northern Catalpa	D	40' to 60'	20' to 40'	Irregular										X	X	Surface roots.
* <u>Celtis laevigata</u> Sugar Hackberry	D	60' to 80'	50' to 60'	Rounded	X	X	X	7'+	X	X	X			X		Wonderful shade tree. Locate where mechanical injury unlikely; tends to rot if injured.

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* <i>Celtis occidentalis</i> Common Hackberry 'Chicagoland' 'Prairie Pride'	D	40' to 60'	40' to 60'	Rounded		X	X	7'+						X	X	Excellent wildlife tree. 'Prairie Pride' is immune to mite that causes witches' broom.
<i>Chamaecyparis obtuse</i> Hinoki Falsecypress	E	50' to 75'	10' to 20'	Pyramidal		X			X				X			Very dense evergreen; needs moist, humid conditions and protection from wind; many cultivars but most are a smaller size.
<i>Chamaecyparis pisifera</i> Sawara Falsecypress	E	50' to 70'	10' to 20'	Pyramidal		X			X	X			X			Requires moist, humid conditions; numerous outstanding cultivars but they are a smaller size, loses beauty with age.
* <i>Diospyros virginiana</i> Common Persimmon	D	35' to 60'	20' to 35'	Oval										X	X	Establishes well on compacted soils.
* <i>Fagus grandifolia</i> (<i>Fagus americana</i>) American Beech	D	50' to 70'	100' to 120'	Rounded		X							X	X	X	Recommended for shade areas only. Surface roots.
<i>Fagus sylvatica</i> European Beech 'Asplenifolia' 'Fastiagata' 'Riversii' 'Rohanii' 'Rotundifolia'	D	50' to 60'	35' to 45'	Oval to Rounded		X							X		X	Doesn't meet most ordinance requirements because of low branching pattern, many excellent cultivars that could be used as a large screen; needs room to develop.
<i>Ginkgo biloba</i> (Male) Ginkgo 'Autumn Gold' 'Fastiagata'	D	50' to 80'	30' to 50'	Pyramidal to Rounded	X	X	X	7'+	X	X	X			X		Tolerates adverse conditions; excellent tree for streets and other urban uses; outstanding ornamental qualities.
* <i>Gleditsia triacanthos</i> var. <i>inermis</i> Thornless Honey Locust 'Moriane' 'Shademaster' 'Skyline'	D	50' to 75'	30' to 50'	Rounded	X		X	7'+	X	X	X			X		Only thornless cultivars are acceptable; Cultivars have less disease and insect problems than straight species; provides a light, filtered shade; widely used. Not generally recommended due to

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'Sunburst'																overplanting and disease problems. Seed pods rather unsightly and create a lot of litter. Surface roots.
* <u>Gymnocladus dioicus</u> Kentucky Coffeetree	D	60' to 75'	40' to 50'	Oval			X	7'+						X	X	Drought tolerant. Male cultivars only as street tree.
* <u>Juglans cinerea</u> Butternut	D	40' to 60'	30' to 50'	Rounded									X	X		
* <u>Juglans nigra</u> Black Walnut	D	50' to 75'	50' to 75'	Oval									X	X		
<u>Larix decidua</u> European Larch	D	70' to 75'	25' to 30'	Pyramidal			X	7'+	X	X			X		X	Nice specimen tree for large areas; intolerant of adverse conditions; messy winter appearance; does well in wet areas. Good, especially for tough sites.
* <u>Liquidambar styraciflua</u> Sweetgum 'Festival' 'Moraine' 'Happidaze' 'Rotundiloba'	D	60' to 70'	40' to 50'	Pyramidal To Oval			X	8'+	X	X	X			X	X	Excellent tree for large areas; extensive root system needs room to develop; avoid polluted areas. Fruit can be considered a nuisance. Needs pH of 6.5 or less. 'Happidaze' and 'Rotundiloba' are almost fruitless.
* <u>Liriodendron tulipifera</u> Tulip Poplar Yellow Poplar	D	70' to 90'	35' to 50'	Oval To Rounded			X	8'+	X	X	X			X	X	Can grow to 150' or taller, not for small Areas. Verticillium develops if salt gets on roots. Never in a monoculture. Honeydew/sooty mold.
* <u>Maclura pomifera</u> Osage-Orange	D	40' to 60'	20' to 40'	Rounded			X	7'+						X	X	Wood is very decay resistant. Male cultivar only for street tree.
* <u>Magnolia acuminata</u> Cucumbertree Magnolia	D	50' to 80'	50' to 80'	Pyramidal To Rounded			X	8'+	X	X	X			X	X	Develops massive spreading branches, not for polluted areas or dry soils. Does not tolerate

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																compaction.
<u>Metasequoia glyptostroboides</u> Dawn Redwood	D	70' to 100'	25'	Pyramidal to Conical	X	X	X	8'+	X	X			X			Can suffer from early freeze damage; should only be used in large areas; very adaptable. Limb up for street tree.
<u>Picea abies</u> Norway Spruce	E	40' to 60'	25' to 30'	Pyramidal	X				X				X	X		Loses form with age; commonly used as a windbreak; can be pruned into a hedge.
<u>Picea glauca</u> White Spruce	E	40' to 60'	10' to 20'	Pyramidal	X				X				X			Very adaptable; tolerates adverse conditions better than other spruce trees.
<u>Picea omorika</u> Serbian Spruce	E	50' to 60'	20' to 25'	Pyramidal	X				X				X			Excellent dark green foliage; tolerates city conditions; does well in almost any urban area.
<u>Picea orientalis</u> Oriental Spruce	E	50' to 60'	20' to 30'	Pyramidal	X				X				X			Outstanding ornamental evergreen; needs protection from winter winds; low branching pattern restricts use.
<u>Picea pungens</u> Colorado Spruce	E	50' to 70'	20' to 30'	Pyramidal					X				X			Tolerates dry conditions better than other spruce; best used in large areas because of over-planting silvery-blue foliage color; not tolerant of salt or clay soils.
* <u>Pinus echinata</u> Short Leaf Pine	E	80' to 100'	25' to 35'	Pyramidal										X	X	
<u>Pinus resinosa</u> Red Pine	E	50' to 80'	20' to 40'	Pyramidal to Oval	X	X			X				X			Tolerates adverse conditions; does best farther north; develops a picturesque, symmetrical form with age.
* <u>Pinus strobus</u> White Pine	E	50' to 80'	20' to 40'	Pyramidal					X				X	X		Soft, feathery appearance because of foliage, extremely intolerant of air pollution; one of most beautiful native pines.

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<u>Pinus thunbergii</u> Japanese Black Pine	E	20' to 50'	Var.	Pyramidal to Irregular	X				X				X			Variable in size and spread; tolerates salt spray and poor soils.
* <u>Platanus occidentalis</u> American Sycamore	D	75' to 100'	75' to 100'	Irregular			X	8'+						X	X	Excellent floodplain tree; disease and insect problems can be serious; surface roots; good tough street trees.
<u>Platanus x acerifolia</u> London Planetree 'Bloodgood'	D	70' to 100'	60' to 80'	Pyramidal to Rounded	X		X	8'+	X	X						Tolerates adverse conditions; best used in large areas because of size; disease and insect problems can be serious; surface roots; good, tough street trees.
* <u>Prunus serotina</u> Black Cherry	D	50' to 60'	25' to 30'	Oval										X	X	
* <u>Quercus alba</u> White Oak	D	60' to 100'	50' to 80'	Rounded	X	X	X	7'+	X	X	X			X	X	Drought_tolerant.
* <u>Quercus bicolor</u> Swamp White Oak	D	50' to 60'	50' to 50'	Rounded	X		X	7'+	X	X	X			X	X	Excellent floodplain tree. Good anywhere; drought tolerant.
* <u>Quercus coccinea</u> Scarlet Oak	D	70' to 75'	40' to 50'	Pyramidal to Rounded	X	X	X	7'+	X	X	X			X		Difficult to locate commercially; outstanding ornamental tree; somewhat difficult to transplant.
* <u>Quercus falcata</u> Southern Red Oak	D	70' to 80'	50' to 70'	Rounded	X	X	X	7'+						X	X	
* <u>Quercus imbricaria</u> Shingle Oak	D	50' to 60'	40' to 60'	Oval to Rounded	X	X	X	7'+	X	X	X			X	X	Nice tree when allowed room to develop; easier to transplant than most oaks; tolerates most adverse conditions.
* <u>Quercus macrocarpa</u> Bur Oak	D	70' to 80'	70' to 80'	Irregular	X				X					X	X	Tolerates dry soils; needs large site.

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* <u>Quercus muehlenbergii</u> Chinkapin Oak	D	70' to 80'	80' to 100'	Rounded	X	X	X	7'+	X	X	X			X	X	
* <u>Quercus nigra</u> Water Oak	D	50' to 80'	40' to 60'	Oval to Rounded	X	X	X	7'+	X	X	X			X	X	Used extensively in the South; adaptable to moist, wet sites; leaves persist into winter.
* <u>Quercus palustris</u> Pin Oak 'Crown Rite' 'Sovereign'	D	60' to 70'	25' to 40'	Pyramidal	X				X					X	X	Limited use to floodplain areas.
* <u>Quercus phellos</u> Willow Oak	D	40' to 60'	50' to 40'	Pyramidal to Oval	X	X	X	7'+	X	X	X			X	X	Very handsome tree; widely used in South; finer textured than other oaks.
<u>Quercus robur</u> English Oak 'Fastigata'	D	60' to 80'	50' to 60'	Pyramidal to Rounded	X				X	X	X					Widely used in Europe; too large for most settings; tolerates high pH soils. Powdery mildew is a cosmetic issue.
* <u>Quercus rubra</u> Northern Red Oak	D	60' to 75'	40' to 50'	Rounded	X	X	X	7'+	X	X	X			X	X	Widely used; fast growing oak; transplants easily; valuable for a variety of landscape uses.
* <u>Quercus shumardii</u> Shumard Oak	D	40' to 60'	40' to 50'	Rounded	X	X	X	7'+	X	X	X			X	X	Not widely known and difficult to find commercially. Excellent street tree.
* <u>Robinia pseudoacacia</u> Black Locust 'Chicago Blues'	D	30' to 80'	20' to 35'	Narrow Oblong										X	X	Excellent invasive for early successional forest stage, thorny. Plant in a cornell mix; can pave right up to trunk (so can't sprout); good plaza tree. 'Chicago Blues' - thornless, no leaf miner; blue/green leaves.
* <u>Sassafras albidum</u> Sassafras	D	30' to 60'	25' to 40'	Rounded	X	X			X	X	X			X	X	May need to be limbed up for some uses. Tends to sucker.

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* <i>Taxodium distichum</i> Bald Cypress 'Shawnee Brave'	D	50' to 70'	20' to 30'	Pyramidal	X	X	X	7'+	X	X	X			X	X	Often must be limbed up to meet ordinance requirements; handsome specimen tree.
* <i>Thuja occidentalis</i> American Arborvitae	E	40' to 60'	10' to 15'	Pyramidal	X	X			X				X	X		Very dense evergreen; requires considerable atmospheric moisture; numerous cultivars but most are much smaller.
* <i>Tilia americana</i> American Basswood	D	60' to 80'	30' to 60'	Rounded			X	7'+	X					X	X	Inferior to <i>T. cordata</i> (see below)
<i>Tilia cordata</i> Littleleaf Linden 'Chancellor' 'Greenspire' 'June Bride'	D	60' to 70'	30' to 50'	Oval	X		X	7'+	X	X	X	X		X		Smaller leaves (less messy) and less prone to breakage than <i>T. americana</i> (see above).
<i>Tilia x euchlora</i> Crimean Linden 'Redmond'	D	40' to 60'	20' to 30'	Oval	X	X	X	7'+	X	X	X	X				
<i>Tilia tomentosa</i> Silver Linden 'Sterling'	D	50' to 70'	30' to 50'	Oval to Rounded	X		X	5'+	X	X	X	X		X	X	More drought tolerant and tolerant of alkaline soils; Japanese beetle less of a problem.
* <i>Tsuga canadensis</i> Eastern Hemlock	E	40' to 70'	25' to 35'	Pyramidal					X				X	X	X	Very dense, low-branched evergreen; responds well to pruning; sensitive to drought and polluted environments.
<i>Tsuga caroliniana</i> Carolina Hemlock	E	45' to 60'	20' to 25'	Pyramidal	X				X				X			Tolerates city conditions better than <i>T. canadensis</i> ; intolerant of drought conditions; not well known.
* <i>Ulmus americana</i> American Elm Must be hybrid resistant to Dutch Elm Disease	D	60' to 80'	40' to 55'				X	7'+	X	X	X			X	X	Use only hybrids resistant to Dutch Elm Disease.

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* <u>Ulmus rubra</u> Slippery Elm	D	40' to 60'	25' to 40'	Vase										X	X	Excellent streamside tree. Gets Dutch Elm disease.
<u>Zelkova serrata</u> Japanese Zelkova 'Village Green'	D	50' to 80'	40' to 70'	Vase-shaped	X		X	7'+	X	X	X	X				Outstanding ornamental tree; has been used as a replacement for American Elm; tolerates wind and drought; excellent street tree; needs timely pruning.

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B. MEDIUM TREES

B/MT MEDIUM TREES (25 to 50 Feet in Height)

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<i>Acer buergeranum</i> Trident Maple	D	30' to 35'	25'	Oval-Rounded to Round	X	X	X	5'+	X							Fall color; can be trained to single trunk and limbed up; popular street tree.
<i>Acer campestre</i> Hedge Maple	D	25' to 35'	25' to 35'	Rounded	X	X	X	5'+	X	X	X			X		Excellent medium-size tree; useful in areas where space is limited; attractive dark green foliage.
* <i>Acer rubrum</i> Red Maple 'Armstrong' 'Autumn Flame' 'Columnar' 'October Glory' 'Red Sunset' 'Scarlet Sentinel'	D	40' to 60'	40' to 50'	Oval			X	7'+	X	X	X	X		X	X	Numerous cultivars are superior to the straight species and should be considered for use. Requires room to develop; won't tolerate heavily polluted urban streets; preferred food of Asian Longhorn Beetle. Surface roots. For species diversity, too many already.
<i>Aesculus x</i> Carnea 'Red Horse Chestnut'	D	30' to 40'	30' to 40'	Rounded	X		X	7'+	X							Foliage tends to scorch in dry conditions
* <i>Amelanchier arborea</i> Downy Serviceberry	D	25' to 30'	10' to 15'	Rounded			X	5'+	X	X			X	X		Does best in a naturalistic planting. Only single trunks allowed for street trees.
* <i>Amelanchier laevis</i> Allegheny serviceberry	D	25' to 30'	15' to 25'	Rounded		X	X	7'+	X	X	X			X	X	Attractive multi-stemmed tree; often must be limbed up to meet ordinance requirements; possible use in sight triangle if single-stemmed forms are selected. Prefers some shade.
* <i>Carpinus caroliniana</i> American Hornbeam	D	20' to 30'	20' to 30'	Rounded		X	X	5'+	X	X	X			X	X	Full sun to partial shade; often must be limbed up to meet ordinance requirements; tolerates moist, well drained soils; interesting native tree. Can be low branched; limb up in nursery; surface roots.
<i>Cercidiphyllum japonicum</i> Katsura Tree	D	40' to	30' to	Oval to Columnar	X	X	X	7'+	X	X	X	X		X		Male forms are narrow and upright while female forms are round and

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		50'	50'													spreading; handsome tree; had to be limbed up to meet ordinance requirements. Shallow roots. Drought intolerant; must be watered in a drought.	
* <i>Cladratis kentukea</i> Yellowwood	D	30' to 50'	40' to 50'	Vase-Shaped			X	7+	X	X	X			X	X	Excellent flowers and foliage; tolerates moist soil conditions; poor branching angles often require corrective pruning; surface roots.	
<i>Corylus columa</i> Turkish Filbert	D	40' to 50'	20' to 30'	Pyramidal	X		X	5+	X	X	X					Excellent street tree.	
<i>Eucommia ulmoides</i> Hardy Rubber Tree	D	40' to 50'	40' to 50'	Rounded	X	X	X	7+	X	X	X	X		X		Virtually problem free, outstanding dark green foliage; lacking in other ornamental qualities; excellent street tree. Very drought tolerant; must cut water sprouts.	
* <i>Halesia tetraptera</i> (formerly <i>carolina</i>) Carolina Silverbell	D	30' to 40'	20' to 35'	Oval to Rounded		X	X	5+	X	X	X			X		Prefers rich, well drained, acid soils; intolerant of adverse conditions; often must be limbed up to meet ordinance.	
* <i>Ilex opaca</i> American Holly	E	40' to 50'	18' to 40'	Pyramidal to Irregular					X					X	X	X	Needs sheltered location; some leaf minor problems; need male and female for fruit. Normally 20' to 30' in height; can be used as a large screen; must be limbed up to meet most ordinance requirements.
<i>Ilex pedunculosa</i> Longstalk Holly	E	20' to 30'	10' to 15'	Dense, Rounded	X	X			X	X				X	X	One of the hardiest red fruiting holly.	
* <i>Juniperus virginiana</i> Eastern Redcedar	E	40' to 50'	10' to 20'	Pyramidal	X	X			X					X	X	Can be used as a screen between conflicting land uses; cultivars are superior to straight species, but most are smaller in size; best used in large areas; doesn't meet other ordinance requirements because of low branching pattern.	

* = Native Species



B. MEDIUM TREES

B/MT MEDIUM TREES (25 to 50 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS						PLANT USES								COMMENTS	
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	STREET TREE	RECOMMENDED PLANTING STRIP WIDTH	PROPERTY PERIMETER	VEHICULAR USE AREA PERIMETER	VEHICULAR USE AREA INTERIOR	SIGHT TRIANGLE	SCREENING	TREE PROTECTION ORDINANCE		OPEN SPACE USE
<u>Maackia amurensis</u> (aka Amur maackia)	D	20' to 30'	25'	Rounded	X	X	X	5+								Narrow diameter trunk, prune early on to remove low branches,
* <u>Nyssa sylvatica</u> Black Gum, Tupelo	D	30' to 50'	20' to 30'	Oval to Rounded	X	X	X	5+	X	X	X	X		X	X	One of the most beautiful native trees; intolerant of high pH soils difficult to transplant.
* <u>Ostrya virginiana</u> Hophornbeam	D	25' to 40'	20' to 30'	Rounded	X	X	X	5+	X	X	X	X		X	X	Good tree where space is limited; somewhat slow to establish; occasionally must be limbed up. Lovely bark and foliage; nice downtown street tree.
* <u>Oxydendrum arboreum</u> Sourwood	D	25' to 30'	20' to 25'	Pyramidal										X		Not recommended for Bluegrass soil.
<u>Parrotia persica</u> Persian Parrotia	D	20' to 40'	15' to 30'	Oval	X	X	X	5+	X	X	X					Outstanding bark and foilage color; excellent for a variety of uses although not very well known. Needs shade, good soil, uniform moisture.
<u>Phellodendron amurense</u> Cork Tree	D	30' to 45'	30' to 40'	Rounded	X	X	X	5+	X	X	X			X		Very adaptable, withstands most adverse conditions; useful in largest settings; picturesque appearance. Male only for street trees, female is invasive.
<u>Pinus cembra</u> Swiss Stone Pine	E	30' to 40'	15' to 25'	Pyramidal	X				X	X	X					Handsome evergreen; slow growth rate limits use; requires an open area with good air movement; transplants easier than most pines.
<u>Pinus parviflora</u> Japanese White Pine	D	25' to 50'	25' to 50'	Rounded	X				X				X			Develops a low-branched, wide-spreading form; tolerates most soils; good tree for small areas, slow growth rate.
* <u>Pinus virginiana</u> Virginia or Scrub Pine	E	15' to 40'	10' to 30'	Irregular Pyramidal										X	X	
<u>Prunus sargentii</u> Sargent Cherry	D	40' to	30' to	Rounded	X	X	X	5+	X	X	X			X		Tolerant of adverse conditions; one of the best large cherries for ornamental use;

* = Native Species



B. MEDIUM TREES

B/MT MEDIUM TREES (25 to 50 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS						PLANT USES								COMMENTS	
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	STREET TREE	RECOMMENDED PLANTING STRIP WIDTH	PROPERTY PERIMETER	VEHICULAR USE AREA PERIMETER	VEHICULAR USE AREA INTERIOR	SIGHT TRIANGLE	SCREENING	TREE PROTECTION ORDINANCE		OPEN SPACE USE
'Columnaris'		50'	50'													fruit can be messy.
<u>Prunus subhirtella</u> Higan Cherry 'Autumnalis' var. pendula	D	20' to 40'	15' to 30'	Rounded	X	X	X	5+	X	X	X					Variable in form and flower colors; striking when in flower; numerous cultivars.
<u>Prunus yedoensis</u> Yoshino Cherry	D	20' to 40'	20' to 40'	Rounded	X	X	X	5+	X	X	X			X		Outstanding pinkish-white flowers; not common and could be hard to find commercially.
<u>Quercus acutissima</u> Sawtooth Oak	D	35' to 45'	30' to 40'	Rounded	X	X	X	7+	X	X	X			X	X	Slow growth rate limits use; lustrous dark green foliage; not widely known but deserves more use. Doesn't produce much fruit; remove lower branches as street tree.
* <u>Quercus stellata</u> Post Oak	D	40' to 50'	25' to 35'	Rounded										X	X	Shrubby
<u>Stephanolobium japonicum</u> (formerly Sophora japonica) Japanese Pagoda 'Princeton Upright'	D	30' to 40'	40' to 60'	Rounded	X		X	7+	X	X	X					Excellent flowers; adaptable to moist conditions; good tree for a variety of uses; should be used more extensively. Beans are messy and discolor concrete.
<u>Stewartia pseudo-camellia</u> Japanese Stewartia	D	20' to 35'	20' to 30'	Oval		X			X	X	X					Superb specimen tree; requires rich, moist soils; difficult to transplant; hardiest of the stewartias; hard to find commercially.
<u>Styrax japonicus</u> Japanese Snowbell	D	20' to 30'	20' to 30'	Rounded	X		X	7+	X							Likes good soil, uniform moisture and a bit of shade. Low branched.
<u>Syringa reticulata</u> Japanese Tree Lilac	D	20' to 30'	15' to 25'	Oval	X	X	X	5+	X	X	X			X		Most trouble-free lilac; more adaptable than other lilacs; spectacular white flower display.
* <u>Ulmus alata</u> Winged Elm	D	30' to 40'	20' to 30'	Rounded			X	5+						X	X	Often infected with powdery mildew. Tough trees; limb up for street trees.

* = Native Species



B. MEDIUM TREES

B/MT MEDIUM TREES (25 to 50 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS					PLANT USES									COMMENTS	
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	STREET TREE	RECOMMENDED PLANTING STRIP WIDTH	PROPERTY PERIMETER	VEHICULAR USE AREA PERIMETER	VEHICULAR USE AREA INTERIOR	SIGHT TRIANGLE	SCREENING	TREE PROTECTION ORDINANCE		OPEN SPACE USE
<u>Ulmus parvifolia</u> Lacebark Elm	D	40' to 50'	40' to 50'	Rounded	X	X	X	7+	X	X	X			X		Resistant to Dutch Elm disease; often confused with <u>U. pumila</u> , but is a much superior ornamental tree. Produces lots of seedlings, but doesn't seem to move to the woods. Aggressive root system, absorbs water, nutrients and space.

* = Native Species



C. LARGE SHRUB OR SMALL TREE

C/LST LARGE SHRUB OR SMALL TREE (10 TO 25 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS						PLANT USES								COMMENTS	
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	STREET TREE	RECOMMENDED PLANTING STRIP WIDTH	PROPERTY PERIMETER	VEHICULAR USE AREA PERIMETER	VEHICULAR USE AREA INTERIOR	SIGHT TRIANGLE	SCREENING	TREE PROTECTION ORDINANCE		OPEN SPACE USE
<u>Acer tataricum var. ginnala</u> Amur Maple	D	15' to 18'	15' to 20'	Rounded	X	X	X	7'+	X	X	X			X	X	Handsome multi-stemmed shrub tree; withstands heavy pruning inconsistent fall color; very adaptable; tough.
<u>Acer palmatum</u> Japanese Maple 'Atropurpureum' 'Bloodgood' 'Burgundy Lace' 'Crispum'	D	15' to 25'	15' to 25'	Rounded					X	X	X					Outstanding ornamental tree; frequently used because of slow growth and need for winter protection; recommended for private use.
* <u>Acer pensylvanicum</u> Striped Maple	D	15' to 20'	12' to 20'	Rounded		X			X	X	X			X		Shrub or tree form prefers partial shade; intolerant of adverse conditions; lovely white striped bark.
<u>Aesculus parviflora</u> Bottlebrush Buckeye	D	8' to 12'	8' to 15'	Rounded		X							X	X	X	Excellent multi-stemmed shrub for shady areas; dense, compact forms are superb screens, but they require adequate room; can be kept much smaller.
* <u>Aesculus pavia</u> Red Buckeye	D	10' to 20'	10' to 20'	Rounded	X	X			X	X			X	X	X	
* <u>Alnus serrulata</u> Tag Alder	D	15' to 25'	10' to 20'	Rounded	X	X			X	X			X	X	X	Excellent for use along stream banks and in poor soil areas.
<u>Amelanchier canadensis</u> Shadblow Serviceberry	D	10' to 20'	10' to 20'	Rounded		X							X	X	X	Dense, upright shrub with erect stems tolerates wet soil better than other serviceberries; use as screen if planted close together.
* <u>Asimina triloba</u> Pawpaw	D	15' to 20'	15' to 20'	Rounded	X	X			X	X			X	X	X	Aggressive competitor. Excellent for use in stream areas.

* = Native Species



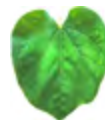
C. LARGE SHRUB OR SMALL TREE

C/LST LARGE SHRUB OR SMALL TREE (10 TO 25 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS						PLANT USES								COMMENTS	
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	STREET TREE	RECOMMENDED PLANTING STRIP WIDTH	PROPERTY PERIMETER	VEHICULAR USE AREA PERIMETER	VEHICULAR USE AREA INTERIOR	SIGHT TRIANGLE	SCREENING	TREE PROTECTION ORDINANCE		OPEN SPACE USE
* <u>Cercis canadensis</u> Eastern Redbud 'Flame' 'Forest Pansy' 'Oklahoma' 'Royal'	D	20' to 25'	20' to 30'	Rounded	X	X			X	X	X			X	X	Excellent native tree; graceful ascending branches, normally must be limbed up to meet ordinance requirements; showy pink-purple flowers. Best not used as street trees due to low disease resistance and short life. 'Oklahoma' has nicer foliage.
* <u>Chionanthus virginicus</u> White Fringetree	D	15' to 30'	15' to 30'	Broadly Rounded	X	X	X	7'+	X	X	X		X	X		Probably best with some afternoon shade.
* <u>Cornus alternifolia</u> Pagoda Dogwood	D	15' to 25'	20' to 30'	Rounded	X	X			X	X	X			X	X	Low branched tree or shrub; interesting horizontal branching; must be limbed up to meet ordinance requirements.
* <u>Cornus florida</u> Flowering Dogwood 'Cherokee Chief' 'Cherokee Princess' var. rubra 'White Cloud'	D	20' to 25'	20' to 30'	Rounded		X	X	7'+	X	X	X			X	X	Excellent low branched ornamental tree; must be limbed up to meet ordinance requirements; spectacular when flowering; recommended for private use.
<u>Cornus Kousa</u> Kousa Dogwood 'Milky Way'	D	15' to 20'	15' to 20'	Rounded		X	X	7'+	X	X	X		X	X	X	Possibly use if limbed up, but naturally develops a low branching structure; recommended for private use.
<u>Cornus mas</u> Corneliancherry-Dogwood	D	20' to 25'	15' to 20'	Oval to Rounded	X	X			X	X	X		X	X		Usually branches to ground; possible if limbed up; attractive yellow flower display; recommended for private use.
* <u>Crataegus crusgalli</u> Cockspur Hawthorn	D	20' to 25'	20' to 30'	Rounded	X				X				X	X		Dense, low-branched tree; numerous long, sharp thorns; excellent screen and barrier plant.
<u>Crataegus phaenopyrum</u> Washington Hawthorn	D	20' to	20' to	Oval to Rounded	X					X			X	X	X	Dense, thorny tree; thorns can limit use; often must be limbed up.

* = Native Species



C. LARGE SHRUB OR SMALL TREE

C/LST LARGE SHRUB OR SMALL TREE (10 TO 25 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS						PLANT USES									COMMENTS
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	STREET TREE	RECOMMENDED PLANTING STRIP WIDTH	PROPERTY PERIMETER	VEHICULAR USE AREA PERIMETER	VEHICULAR USE AREA INTERIOR	SIGHT TRIANGLE	SCREENING	TREE PROTECTION ORDINANCE	OPEN SPACE USE	
<u>Crataegus viridis</u> Green Hawthorn 'Winter King'	D	30' to 20' to 30'	25' to 20' to 30'	Rounded	X				X	X	X		X	X		Dense, thorny tree; occasionally must be limbed up; excellent small specimen tree; thorns might limit its use.
<u>Crataegus x lavalleyi</u> Lavalley Hawthorn	D	15' to 25'	10' to 20'	Oval	X		X	7+	X	X	X	X	X	X		Small dense tree, essentially thornless; normally must be limbed up to meet ordinance regulations; possible use in sight triangle if limbed up.
* <u>Euonymus atropurpureus</u> Eastern Wahoo	D	12' to 24'	10' to 20'	Irregular	X				X	X			X	X	X	Susceptible to scale.
<u>Forsythia x intermedia</u> Border Forsythia	D	8' to 10'	10' to 12'	Rounded	X	X			X				X			Benefits from selective pruning of larger branches; can be kept smaller with pruning.
* <u>Hamamelis virginiana</u> Common Witchhazel	D	20' to 30'	20' to 25'	Rounded	X	X							X	X	X	Early spring blooming.
* <u>Hamamelis vernalis</u>	D	20' to 30'	20' to 25'	Rounded	X	X							X	X	X	Fall blooming.
<u>Hydrangea paniculata</u> Panicled Hydrangea	D	15' to 25'	10' to 20'	Irregular	X								X	X	X	Should probably be reserved for large out of the way areas.
<u>Ilex x attenuata</u> 'Fosteri' Foster Holly	E	10' to 20'	5' to 10'	Pyramidal	X	X			X				X	X		Dense, handsome evergreen; excellent year-round screen; possible winter damage.

* = Native Species



C. LARGE SHRUB OR SMALL TREE

C/LST LARGE SHRUB OR SMALL TREE (10 TO 25 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS				PLANT USES										COMMENTS	
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	STREET TREE	RECOMMENDED PLANTING STRIP WIDTH	PROPERTY PERIMETER	VEHICULAR USE AREA PERIMETER	VEHICULAR USE AREA INTERIOR	SIGHT TRIANGLE	SCREENING	TREE PROTECTION ORDINANCE		OPEN SPACE USE
<u>Juniperus chinensis</u> (Cult.) Chinese Juniper (Cult.) 'Hetzii' 'Keteleeri' 'Mint Julep' 'Mount Batten' 'Pfitzeriana' 'Robusta Green'	E	12' to 25'	Var.	Varied	X				X	X			X	X		Only cultivars are acceptable; uses depend on the size, shape, and growth habit of each cultivar; dense evergreen forms.
<u>Magnolia stellata</u> Star Magnolia	D	15' to 20'	10' to 15'	Rounded		X			X				X	X		Dense shrub-like form; good screen but needs ample room; needs winter protection; avoid southern exposure.
<u>Magnolia virginiana</u> Sweetbay Magnolia	D	10' to 20'	10' to 20'	Oval		X			X		X		X	X		Large multi-stemmed shrub; better in wet soils than other magnolias, possible use if central leader forms are used.
<u>Magnolia x soulangiana</u> Saucer Magnolia	D	20' to 20'	20' to 30'	Rounded		X			X	X	X		X	X		Low-branched and normally must be limbed up to meet ordinance requirements although this destroys form; seldom used to meet landscaping requirements; but recommended highly for private use.
<u>Malus</u> (varieties) Crabapple 'Bob White' 'Coral Cascade' 'Dolgo' 'Harvest Gold' 'Red Jade' 'Red Swan' 'Snowdrift' 'Vanguard' 'White Angel'	D	10' to 25'	10' to 30'	Varied	X	X	X	7'+	X	X	X	X		X		Only disease and insect resistant cultivars are acceptable; possible use depends on branching height; often must be limbed up; valued for foliage; fruit, flowers, and variations in size and form; numerous cultivars and landscape numerous cultivars and landscape uses.
<u>Philadelphus x virginialis</u> Mockorange	D	10' to 15'	10' to 15'	Rounded	X	X								X		

* = Native Species



C. LARGE SHRUB OR SMALL TREE

C/LST LARGE SHRUB OR SMALL TREE (10 TO 25 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS					PLANT USES										COMMENTS
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	STREET TREE	RECOMMENDED PLANTING STRIP WIDTH	PROPERTY PERIMETER	VEHICULAR USE AREA PERIMETER	VEHICULAR USE AREA INTERIOR	SIGHT TRIANGLE	SCREENING	TREE PROTECTION ORDINANCE	OPEN SPACE USE	
<u>Pinus densiflora</u> Japanese Red Pine 'Oculus – draconis' 'Umbraculifera'	E	10' to 15'	10' to 15'	Rounded	X				X				X			Only cultivars are acceptable in this size group; dense evergreen form; slow growing; interesting small specimen trees.
<u>Pinus mugo</u> Mugho Pine	E	15' to 20'	20' to 30'	Varied	X								X			Variable in form, although normally low, and broad-spreading; can be pruned yearly to keep dwarf.
<u>Platycladus orientalis</u> Oriental Arborvitae	E	15' to 25'	10' to 12'	Pyramidal to Oval	X	X			X	X			X			Dense evergreen form; tolerates heat and adverse soils; needs wind protection.
* <u>Prunus americana</u> American Plum	D	15' to 25'	12' to 18'	Rounded									X	X	X	
<u>Prunus angustifolia</u> Chickasaw Plum	D	12' to 20'	15' to 20'	Rounded									X	X	X	
<u>Prunus 'Hally Jolivette'</u> Hally Jolivette Cherry	D	10' to 15'	10' to 15'	Rounded									X	X		Densely branched large shrub; attractive pinkish-white flowers; wide-spreading and requires ample room; seldom used as a landscape requirement but one of the nicest cherries.
<u>Prunus serrulata (Cult.)</u> Oriental Cherry (Cult.) 'Kwanzan' 'Shirofugen'	D	15' to 20'	15' to 20'	Vase- Shaped	X				X	X	X			X		Straight species is inferior and seldom used, but there are numerous outstanding cultivars; excellent flower display. Low branched.
* <u>Prunus virginiana</u> Common Chokecherry	D	20' to 30'	18' to 25'	Rounded										X	X	
* <u>Ptelea trifoliata</u> Hoptree	D	15' to 20'	15' to 20'	Rounded	X	X			X	X			X	X		Does well in shade or sun.

* = Native Species



C. LARGE SHRUB OR SMALL TREE

C/LST LARGE SHRUB OR SMALL TREE (10 TO 25 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS						PLANT USES									COMMENTS
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	STREET TREE	RECOMMENDED PLANTING STRIP WIDTH	PROPERTY PERIMETER	VEHICULAR USE AREA PERIMETER	VEHICULAR USE AREA INTERIOR	SIGHT TRIANGLE	SCREENING	TREE PROTECTION ORDINANCE	OPEN SPACE USE	
* <u>Rhamnus caroliniana</u> Carolina Buckthorn	D	10' to 25'	10' to 25'	Oval	X	X			X	X			X	X		
* <u>Rhus typhina</u> Staghorn Sumac	D	15' to 25'	15' to 25'	Spreading	X	X			X	X			X	X		
* <u>Robinia hispida</u> Bristly Locust	D	6' to 20'	6' to 20'	Spreading										X	X	
* <u>Staphylea trifolia</u> American Bladdernut	D	10' to 15'	5' to 10'	Upright	X	X								X	X	Prefers damp, moist, well-drained soils.
<u>Taxus cuspidata</u> (Cult.) Japanese Yew (Cult.) 'Capitata' 'Intermedia' 'Nana' 'Thayen'	E	10' to 20'	10' to 30'	Varied	X	X			X				X			Only cultivars are acceptable for this group; responds well to pruning and can be kept much smaller than size listed; excellent dense hedges.
<u>Viburnum lentago</u> Nannyberry	D	15' to 18'	6' to 10'	Rounded	X	X			X	X			X	X		
<u>Viburnum opulus</u> Cranberrybush Viburnum	D	8' to 10'	10' to 15'	Oval to Rounded	X				X	X			X	X	X	Attractive fruit and flower display; very common viburnum and one of the most popular; good screen for large areas.
* <u>Viburnum prunifolium</u> Blackhaw Viburnum	D	12' to 15'	8' to 12'	Rounded	X	X			X	X			X	X	X	
<u>Viburnum rhytidophyllum</u> Leatherleaf Viburnum	E	10' to 15'	10' to 15'	Rounded	X	X							X	X	X	Blends well with other evergreens; tolerates heavy shade; best used in large areas.

* = Native Species



C. LARGE SHRUB OR SMALL TREE

C/LST LARGE SHRUB OR SMALL TREE (10 TO 25 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS						PLANT USES									COMMENTS
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	STREET TREE	RECOMMENDED PLANTING STRIP WIDTH	PROPERTY PERIMETER	VEHICULAR USE AREA PERIMETER	VEHICULAR USE AREA INTERIOR	SIGHT TRIANGLE	SCREENING	TREE PROTECTION ORDINANCE	OPEN SPACE USE	
* <u>Viburnum rufidulum</u> Southern or Rusty Blackhaw	D	12' to 15'	8' to 12'	Rounded	X	X			X	X			X	X	X	
<u>Viburnum sieboldii</u> Siebold Viburnum	D	15' to 20'	10' to 15'	Rounded	X	X			X				X	X	X	Large, coarse shrub; requires ample moisture; best used in large areas.
<u>Viburnum trilobum</u> American Cranberrybush	D	8' to 12'	8' to 12'	Rounded	X	X			X	X			X	X	X	Multi-stemmed shrub; transplants easily; needs well drained moist soil, good screen for large areas.

* = Native Species



D. MEDIUM SHRUBS

D/MS MEDIUM SHRUBS (6 TO 10 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS							PLANT USES							COMMENTS
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	DENSITY	PERIMETER PROPERTY SCREENING	VEHICULAR USE PERIMETER SCREENING	SERVICE AREA SCREENING	SIGHT TRIANGLE	GROUND COVER	TREE PROTECTION ORDINANCE	OPEN SPACE USE	
<u>Acanthopanax sieboldian</u> Fiveleaf Aralia	D	8' to 10'	8' to 10'	Rounded	X	X	Dense	X	X	X					Erect shrub with arching branching; extremely adaptable; numerous sharp-pointed thorns that are effective for stopping circulation.
* <u>Aronia arbutifolia</u> Red Chokeberry	D	6' to 10'	3' to 5'	Oval to Columnar	X	X	Inter-Mediate	X	X	X				X	Somewhat leggy, develops a rounded crown; requires a low facer plant to be effective for screening; must be planted closely together to achieve required density.
* <u>Aronia melanocarpa</u> Black Chokeberry	D	3' to 5'	3' to 5'	Rounded	X	X	Open	X	X	X			X	X	Tends to sucker profusely and forms large colonies.
<u>Berberis julianae</u> Wintergreen Barberry	D	6' to 10'	6' to 10'	Columnar to Rounded	X	X	Dense	X	X	X				X	Semi-evergreen; numerous small thorns; excellent screen or barrier plant; hardiness is sometimes a problem.
* <u>Calycanthus floridus</u> Carolina Allspice	D	6' to 9'	6' to 12'	Rounded	X	X	Dense	X	X	X			X	X	Very fragrant flowers with a sweet strawberry scent; adaptable; does well in shade.
* <u>Cephalanthus occidentalis</u> Buttonbush	D	3' to 6'	3' to 6'	Rounded		X	Open						X	X	Best reserved for moist areas in a naturalized situation.
<u>Chaenomeles speciosa</u> Flowering Quince	D	6' to 10'	6' to 10'	Rounded	X		Dense	X	X	X					Dense, twiggy form with spiny branches; used mainly because of flower display; good barrier plant.

* = Native Species



D. MEDIUM SHRUBS

D/MS MEDIUM SHRUBS (6 TO 10 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS							PLANT USES							COMMENTS
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	DENSITY	PERIMETER PROPERTY SCREENING	VEHICULAR USE PERIMETER SCREENING	SERVICE AREA SCREENING	SIGHT TRIANGLE	GROUND COVER	TREE PROTECTION ORDINANCE	OPEN SPACE USE	
<u>Chamecyparis pisifera</u> Sawara falseyuparis 'Cyano-virdis' 'Filifera' 'Filifera Aurea' 'Plumosa' 'Plumosa Aurea' 'Squarrosa'	F	6' to 8'	6' to 7'	Varied		X	Very Dense	X	X	X					Only cultivars are acceptable for this size group; numerous outstanding cultivars; all prefer moist, humid conditions; large variety of forms, colors, and textures.
* <u>Cornus amomum</u> Silky Dogwood	D	6' to 10'	6' to 10'	Rounded		X	Open						X	X	Best used for naturalizing in moist and net soils; prefers partially shaded areas.
<u>Cornus serica</u> Redosier Dogwood	D	7' to 9'	10'+	Rounded	X		Open	X	X	X			X	X	Very adaptable; twig blight can be a problem.
<u>Cotoneaster lucidus</u> Hedge Cotoneaster	D	5' to 10'	6' to 10'	Rounded	X	X	Dense	X	X	X					Frequently used as a hedge; handsome dark green foliage; vigorous, durable shrub.
<u>Cotoneaster multiflora</u> Many flowered Cotoneaster	D	8' to 12'	12' to 15'	Rounded	X	X	Dense	X	X	X					Develops a fountain-like appearance; somewhat difficult to transplant; attractive white flowers; requires room to develop.
<u>Euonymus alatus (Cultivar)</u> Winged Euonymus 'Compacta'	D	6' to 8'	6' to 8'	Rounded	X	X	Dense	X	X	X					Develops to a larger size than most people expect, but much more compact than straight species; excellent hedge.
<u>Forsythia suspensa</u> Weeping Forsythia	D	8' to 10'	10' to 15'	Fountain-like	X	X	Dense	X		X					Branches can be trained along a wall, fence or other structure.
<u>Fothergilla major</u> Larger Fothergilla	D	6' to 10'	5' to 8'	Pyramidal to Rounded		X	Dense	X	X	X					Requires acid soil and good drainage; attractive dark green foliage.
<u>Hamamelis vernalis</u> Vernal Witchhazel	D	6' to 10'	6' to 10'	Rounded	X	X	Dense	X	X	X				X	Neat, multi-stemmed form, smallest witchhazel; durable, adaptable plant; flowers early.

* = Native Species



D. MEDIUM SHRUBS

D/MS MEDIUM SHRUBS (6 TO 10 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS							PLANT USES							COMMENTS
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	DENSITY	PERIMETER PROPERTY SCREENING	VEHICULAR USE PERIMETER SCREENING	SERVICE AREA SCREENING	SIGHT TRIANGLE	GROUND COVER	TREE PROTECTION ORDINANCE	OPEN SPACE USE	
<u>Ilex crenata</u> Japanese Holly 'Convexa' 'Microphylla' 'Rotundifolia'	F	5' to 8'	5' to 8'	Rounded	X	X	Dense		X						Slow growth rate limits use as a large screen; possible winter damage depending on cultivar; best used as a low shrub or hedge.
<u>Ilex glabra</u> Inkberry	D	6' to 8'	8' to 10'	Oval to Rounded	X	X	Dense		X						Becomes somewhat open with age, but responds well to heavy pruning; slow growth rate; many uses.
<u>*Ilex verticillata</u> Winterberry	D	6' to 9'	6' to 9'	Oval to Rounded	X	X	Dense	X	X	X	X		X	X	Excellent for wet areas; requires both male and female plant for fruit; prefers rich acid soils; slow growing.
<u>Ilex x meserve</u> Meserve Holly 'Blue Angel' 'Blue Prince' 'Blue Princess'	E	6' to 10'	6' to 10'	Varied	X	X	Dense	X	X	X					Shrubby evergreen form; seldom any winter damage; one of the hardiest and most ornamental holly; can be kept smaller by pruning.
<u>*Juniperus communis</u> Common Juniper	E	5' to 10'	8' to 12'	Varied	X		Dense	X						X	Attractive to wildlife, excellent for songbirds, cover and screen.
<u>*Kalmia latifolia</u> Mountain-laurel	E	7' to 10'	7' to 10'	Rounded			Dense		X				X		Can grow to 30' in farther south; handsome broadleaf evergreen; requires rich, moist, acid soil, somewhat difficult to grow.
<u>*Lindera benzoin</u> Spicebush	D	6' to 12'	6' to 12'	Rounded	X	X	Dense	X	X	X			X	X	Forage for wildlife, excellent open space selection.
<u>Lonicera fragrantissima</u> Fragrant Honeysuckle	D	6' to 10'	6' to 10'	Rounded	X		Dense	X	X	X					Tangled mass of branches; good hedge; very adaptable; fragrant white flowers.
<u>Myrica pensylvanica</u> Northern Bayberry	D	5' to 12'	5' to 12'	Rounded	X	X	Dense	X	X	X					Semi-evergreen; extremely adaptable; combines well with broadleaf evergreens; many uses.

* = Native Species



D. MEDIUM SHRUBS

D/MS MEDIUM SHRUBS (6 TO 10 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS							PLANT USES							COMMENTS
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	DENSITY	PERIMETER PROPERTY SCREENING	VEHICULAR USE PERIMETER SCREENING	SERVICE AREA SCREENING	SIGHT TRIANGLE	GROUND COVER	TREE PROTECTION ORDINANCE	OPEN SPACE USE	
<u>Pieris japonica</u> Japanese Pieris	F	9' to 12'	6' to 8'	Oval			Dense	X	X	X					Broadleaf evergreen; requires rich, moist, acid soil; difficult to grow; requires winter protection; highly recommended for use with other broadleaf evergreens; should only be used in protected areas.
<u>Rhododendron (Varieties)</u> Rhododendron (Var.)	E	Var.	Var.	Varied			Dense	X	X	X					Requires shade and protection from winter and wind damage; excellent plant where it will grow; blends well with other broadleaf evergreens.
<u>*Sambucus canadensis</u> American Elder	D	Var.	Var.	Spreading	X	X	Open						X	X	Best used in naturalized areas.
<u>Taxus x media</u> Anglojap Yew 'Brownii' 'Chadwickii' 'Densiformis' 'Hatfieldii' 'Hicksii' 'Wardii'	E	5' to 12'	Var.	Varied		X	Very Dense	X	X	X					Can eventually grow to 10' tall if not pruned; responds extremely well to pruning and can be kept as low as 2' to 3' tall indefinitely; makes an excellent hedge.
<u>*Viburnum dentatum</u> Arrowwood Viburnum	D	6' to 8'	6' to 12'	Rounded	X	X	Dense	X	X	X					Most durable viburnum; not as attractive as most viburnums; good for a hedge; suckers freely and can become unkempt.
<u>*Viburnum molle</u> Kentucky Viburnum	D	8' to 12'	8' to 12'	Rounded	X	X	Dense	X	X	X					
<u>Viburnum plicatum var. tomentosum</u> Cranberrybush Viburnum	D	8' to 12'	9' to 12'	Rounded	X	X	Dense	X	X	X			X		Interesting horizontal branchings, adaptable; outstanding flower display; excellent screen for large areas.

* = Native Species



D. MEDIUM SHRUBS

D/MS MEDIUM SHRUBS (6 TO 10 Feet in Height)

ACCEPTABLE PLANT MATERIALS

<u>SCIENTIFIC NAME</u> Common Name 'Cultivar'	PLANT CHARACTERISTICS							PLANT USES							COMMENTS
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	DENSITY	PERIMETER PROPERTY SCREENING	VEHICULAR USE PERIMETER SCREENING	SERVICE AREA SCREENING	SIGHT TRIANGLE	GROUND COVER	TREE PROTECTION ORDINANCE	OPEN SPACE USE	
<u>Viburnum x burkwoodii</u> Burkwood Viburnum	D	8' to 10'	6' to 8'	Oval to Rounded	X	X	Inter-mediate	X	X	X					Blends well with broadleaf evergreens; somewhat unkempt in appearance and usually requires pruning; very fragrant flowers.

* = Native Species



E. SMALL SHRUBS

E/SS SMALL SHRUBS (4 to 6 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS							PLANT USES							COMMENTS
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	DENSITY	PERIMETER PROPERTY SCREENING	VEHICULAR USE PERIMETER SCREENING	SERVICE AREA SCREENING	SIGHT TRIANGLE	GROUND COVER	TREE PROTECTION ORDINANCE	OPEN SPACE USE	
<u>Chamaecyparis obtusa</u> (cultivar) Hinoki Falsecypress 'Compacta' 'Grachs' 'Nana Gracillis'	E	5' to 7'	5' to 7'	Rounded		X	Very Dense		X						Straight species can grow to 60' or more in height; only cultivars are acceptable; thick, dark green foliage.
<u>Clethra alnifolia</u> Summersweet Clethra	D	5' to 7'	5' to 7'	Oval to Rounded	X	X	Dense		X						Good shrub for wet areas; attractive, fragrant flowers appears late in summer; very clean.
* <u>Leucothoe fontanesiana</u> Drooping Leucothoe	E	5' to 7'	5' to 7'	Weeping		X	Inter-mediate		X						Fountain-like appearance; intolerant of drought or winds; good undergrowth plant; broadleaf evergreen.
<u>Pinus mugho</u> (Cultivar) Mugho Pine (Cult.) 'Compacta' var. mugho 'Slavinii'	E	5' to 7'	5' to 7'	Varied	X		Very Dense		X						Slow-growing; cultivars seldom become large enough to meet some landscape screening requirements; excellent low evergreen screens.
* <u>Rhus aromatica</u> Fragrant Sumac	D	3' to 6'	6' to 10'	Spreading	X	X	Dense		X						Size can vary; develops into a low, spreading mound; good plant for difficult sites.
<u>Ribes alpinum</u> Alpine Currant	D	3' to 6'	6' to 9'	Rounded	X		Dense		X						Responds well to pruning and makes an excellent hedge; tolerant to adverse conditions.

* = Native Species



F. LOW SHRUBS

F/LS LOW SHRUBS (1-1/2 to 4 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS							PLANT USES							COMMENTS
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	DENSITY	PERIMETER PROPERTY SCREENING	VEHICULAR USE PERIMETER SCREENING	SERVICE AREA SCREENING	SIGHT TRIANGLE	GROUND COVER	TREE PROTECTION ORDINANCE	OPEN SPACE USE	
<u>Abelia x grandiflora</u> Glossy Abelia	D	3' to 5'	3' to 5'	Rounded to Wide- Spreading	X	X	Dense		X						Often killed back in severe winters unless protected; handsome pink flower display; blends well with broadleaf evergreens; limited hardiness.
<u>Abeliophyllum distichum</u> Korean Abelialeaf	D	3' to 5'	3' to 4'	Rounded to Wide- Spreading	X	X	Inter- mediate		X						Excellent early spring flower display; requires winter protection.
<u>Berberis thunbergii</u> Japanese Barberry 'Crimson Pgymy'	D	3' to 5'	4' to 7'	Rounded	X	X	Very Dense		X						Good hedge or barrier; numerous sharp, spiny thorns; 'Crimson Pygmy' seldom gets above 2-1/2' in height; very adaptable.
<u>Berberis verruculosa</u> Warty Barberry	D	3' to 5'	3' to 6'	Rounded to Wide- Spreading	X	X	Dense		X					X	Excellent low barrier or screen; lustrous, dark green foliage; possible winter damage if not protected.
<u>Buxus microphylla</u> Littleleaf Boxwood 'Compacta' var. koreana 'Tide Hill' 'Wintergreen'	E	3' to 4'	3' to 4'	Rounded	X		Very Dense		X						Handsome, compact evergreen; protect from drying winds and very low temperatures; excellent hedge or screening.
* <u>Ceanothus americanus</u> New Jersey Tea	D	3' to 4'	3' to 5'	Rounded										X	
<u>Cotoneaster horizontalis</u> Rock Cotoneaster	D	2' to 3'	5' to 8'	Wide- Spreading	X	X	Dense					X			Flat and wide-spreading; excellent ground cover for a large area.
<u>Deutzia gracilis</u> Slender Deutzia	D	2' to 4'	3' to 4'	Rounded	X	X	Inter- mediate		X						Very adaptable; best of the Deutzias; good flower display; use as a low hedge or screen.

* = Native Species



F. LOW SHRUBS

F/LS LOW SHRUBS (1-1/2 to 4 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS							PLANT USES							COMMENTS
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	DENSITY	PERIMETER PROPERTY SCREENING	VEHICULAR USE PERIMETER SCREENING	SERVICE AREA SCREENING	SIGHT TRIANGLE	GROUND COVER	TREE PROTECTION ORDINANCE	OPEN SPACE USE	
<u>Fothergilla gardenii</u> Dwarf Fothergilla	D	2' to 4'	3' to 4'	Rounded		X	Inter-Mediate		X						Requires moist, acid soils; handsome flowers and foliage; possible for a variety of uses.
* <u>Hypericum frondosum</u> Golden St. Johnswort	D	3' to 4'	3' to 4'	Upright		X	Inter-mediate		X				X	X	Excellent for filter strip along stream.
* <u>Hypericum prolificum</u> Shrubby St. Johnswort	D	2' to 4'	2' to 4'	Rounded	X	X	Dense		X					X	Tolerates a variety of adverse conditions; attractive bright yellow flowers add color in summer.
<u>Ilex crenata</u> Japanese Holly 'Glory' 'Green Luster' 'Helleri' 'Hetzi'	E	2' to 4'	2' to 4'	Rounded to Spreading		X	Dense		X			X			Straight species is too large for this size group, numerous outstanding evergreen cultivars; possible need for winter protection depending on cultivar; excellent for a variety of uses.
<u>Juniperus chinensis</u> var. <u>sargentii</u> Sargents Chinese-Juniper	E	1-1/2' to 2-1/2'	7' to 9'	Wide-Spreading	X	X	Very Dense					X			One of the most adaptable junipers; salt-tolerant and blight resistant; excellent evergreen ground cover.
<u>Juniperus horizontalis</u> Creeping Juniper 'Plumosa' 'Plumosa Compacta' 'Youngstown'	E	2' to 2-1/2'	6' to 10'	Wide-Spreading	X	X	Very Dense					X			Compact evergreen form; one of most popular junipers.
<u>Picea abies</u> Norway Spruce 'Nidiformis'	E	3' to 5'	4' to 5'	Rounded to Wide-Spreading			Very Dense		X						Straight species is too large for this size group; handsome birds nest shaped evergreen.
<u>Potentilla fruticosa</u> Bush Cinquefoil 'Farreri' 'Moonlight'	D	1' to 4'	2' to 4'	Rounded	X	X	Inter-mediate		X						Graceful, refined appearance; requires pruning every 2 to 3 years to keep from becoming straggly; handsome low shrub.

* = Native Species



F. LOW SHRUBS

F/LS LOW SHRUBS (1-1/2 to 4 Feet in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS							PLANT USES							COMMENTS
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	DENSITY	PERIMETER PROPERTY SCREENING	VEHICULAR USE PERIMETER SCREENING	SERVICE AREA SCREENING	SIGHT TRIANGLE	GROUND COVER	TREE PROTECTION ORDINANCE	OPEN SPACE USE	
<u>Prunus laurocerasus</u> Common Laurelcherry 'Otto Luyken' 'Rotundifolia' 'Zabeliana'	E	3' to 6'	3' to 6'	Rounded to Wide- Spreading			Dense		X						Broadleaf evergreen shrub; possible winter damage; handsome when used as a hedge; withstands pruning well.
<u>Spiraea x bumalda</u> Bumalda Spirea 'Anthony Watereri'	D	2' to 3'	3' to 5'	Rounded to Wide- Spreading	X		Dense		X						Often used as a facer plant for tall, leggy screens; tolerates all but wet soils.
<u>Taxus baccata</u> English Yew 'Repandens'	E	2' to 4'	3' to 5'	Rounded to Wide- Spreading	X	X	Very Dense		X						Straight species exhibits frequent winter damage; 'Repandens' is a dwarf cultivar and is hardy.

* = Native Species



G. GROUND COVER

G/GC-GROUND COVER (Below 1-1/2 Fee in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS							PLANT USES					COMMENTS	
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	DENSITY	PERIMETER PROPERTY SCREENING	VEHICULAR USE PERIMETER SCREENING	SERVICE AREA SCREENING	SIGHT TRIANGLE	GROUND COVER		GRENSPACE USE
<u>Ajuga genevensis</u> Geneva Bugle	E	4" to 12"	Variable	Wide-Spreading	X	X	Dense				X	X		Tolerates sun or shade; evergreen; easily crushed if walked on.
<u>Ajuga reptans</u> Carpet Bugle	E	4" to 12"	Variable	Wide-Spreading	X	X	Dense				X	X		Very adaptable; numerous outstanding cultivars; excellent evergreen ground cover.
<u>Arctostaphylos uva-ursi</u> Bearberry	D	6" to 12"	2' to 4'	Wide-Spreading	X	X	Dense				X	X		Thick, broad, evergreen mat; does best in poor sandy soils; excellent ground cover for adverse situations.
* <u>Bignonia (Anisostichus) capreolata</u> Crossvine	E	Var.	Var.	Climbing Vine	X	X	Intermediate				X	X		
<u>Calluna vulgaris</u> Scotch Heather	D	4" to 24"	2' to 3'	Wide-Spreading		X	Dense				X	X		Requires rich, acid soil; very exacting cultural requirements; only lower growing cultivars are acceptable for use in sight triangle; one of most beautiful ground covers.
* <u>Campsis radicans</u> Trumpet creeper	D	Var.	Var.	Climbing Vine	X	X	Dense						X	Has a tendency to take over an area.
* <u>Celastrus scandens</u> American Bittersweet	D	Var.	Var.	Twining Vine	X	X	Intermediate						X	
* <u>Clematis virginiana</u> Virginsbower	D	Var.	Var.	Climbing Vine	X	X	Intermediate				X	X		
<u>Cotoneaster adpressa</u> Creeping Cotoneaster 'Praecox'	D	12" to 18"	4' to 6'	Wide-Spreading	X	X	Intermediate				X	X		Handsome horizontal branching; roots where branches touch the soil.
<u>Cotoneaster dammeri</u> Bearberry cotoneaster 'Skogholm'	D	12" to 18"	6' to 8'	Wide-Spreading	X		Intermediate				X	X		Branches creep along the ground; vigorous and fast growing; excellent ground cover.
<u>Erica carnea</u> Spring Heath	D	6" to 18"	2' to 3'	Wide-Spreading	X		Dense				X	X		Seldom grows over 12" tall; fine textured evergreen ground cover; similar to C. vulgaris.

* = Native Species



G. GROUND COVER

G/GC-GROUND COVER (Below 1-1/2 Fee in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS							PLANT USES					COMMENTS	
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	DENSITY	PERIMETER PROPERTY SCREENING	VEHICULAR USE PERIMETER SCREENING	SERVICE AREA SCREENING	SIGHT TRIANGLE	GROUND COVER		GRENSPACE USE
<u>Forsythia viridissima</u> Bronze Forsythia 'Bronxensis'	D	12" to 18"	2' to 3'	Rounded to Wide-Spreading	X	X	Inter-mediate				X	X		Straight species is too large for use; 'Bronxensis' is a dwarf cultivar; excellent foliage and early spring flowers.
* <u>Gaylussacia brachycera</u> Box Huckleberry	E	6" to 18"	Indef.	Dwarf Wide-Spreading	X	X	Dense				X	X		Requires acid, well-drained soil; full sun to partial shade.
<u>Hedera Helix</u> English Ivy	E	6" to 8"	Var.	Wide-Spreading Vine	X	X	Inter-mediate				X	X		Can be an evergreen vine or ground cover; tolerates heavy shade; excellent plant for a variety of uses.
<u>Hypericum calycinum</u> St. Johnswort	D	12" to 18"	18" to 24"	Rounded to Wide-Spreading	X	X	Inter-mediate				X	X	X	Experiences frequent winter damage; semi-evergreen depending on the weather.
<u>Juniperus conferta</u> Shore Juniper 'Blue Pacific' 'Emerald Sea'	E	12" to 18"	6' to 9'	Wide-Spreading	X	X	Very Dense				X	X		Possible winter damage; very adaptable; one of the most handsome juniper ground covers.
<u>Juniperus horizontalis</u> Creeping Juniper 'Bar Harbor' 'Blue Chip' 'Blue Mat' 'Douglasi' 'Procumbens' 'Wiltoni'	E	12" to 24"	4' to 8'	Wide-Spreading	X	X	Very Dense				X	X		Only lowest cultivars are acceptable for use in sight triangle; very adaptable; excellent for any dry, sunny area; numerous outstanding cultivars.
<u>Juniperus sabina</u> Savin Juniper 'Arcadia' 'Broadmoor' var. tamariscifolia	E	12" to 18"	3' to 5'	Wide-Spreading	X	X	Very Dense				X	X		Straight species is of little value, but numerous outstanding cultivars; withstands adverse conditions.
<u>Liriope muscari</u> Liriope	E	12" to 18"	Var.	Wide-Spreading	X	X	Inter-mediate				X	X		Tolerates almost any type of adverse condition; attractive, fine-textured grass-like appearance.

* = Native Species



G. GROUND COVER

G/GC-GROUND COVER (Below 1-1/2 Fee in Height)

ACCEPTABLE PLANT MATERIALS

SCIENTIFIC NAME Common Name 'Cultivar'	PLANT CHARACTERISTICS							PLANT USES						COMMENTS
	PLANT TYPE	HEIGHT	SPREAD	FORM	URBAN TOLERANT	DISEASE AND INSECT TOLERANT	DENSITY	PERIMETER PROPERTY SCREENING	VEHICULAR USE PERIMETER SCREENING	SERVICE AREA SCREENING	SIGHT TRIANGLE	GROUND COVER	GRENSPACE USE	
* <u>Lonicera sempervirens</u> Trumpet Honeysuckle	D	Var.	Var.	Twining Vine	X	X	Inter-mediate				X	X		
* <u>Pachistima canbyi</u> Pachistima (Mountain Lover)	E	4" to 12"	Var.	Wide-Spreading	X	X	Inter-mediate				X	X	X	
<u>Pachysandra terminalis</u> Japanese Spurge	E	0" to 10"	Var.	Wide-Spreading	X	X	Inter-mediate				X	X		
<u>Parthenocissus tricuspidata</u> Boston Ivy	E	4" to 6"	2.5' to 3.5'	Wide-Spreading Vine	X	X	Inter-mediate				X	X		Fast growing evergreen vine; likes partial shade and will cling to wall and fences.
<u>Rosa wichuriana</u> Memorial Rose	D	12" to	Var. to	Wide-Spreading	X	X	Inter-mediate				X	X		Semi-evergreen ground cover or vine; excellent for preventing soil erosion.
<u>Spiraea japonica var. alpine</u>	D	8" to 12"	2' to 3'	Rounded to Wide-Spreading	X		Inter-mediate				X	X		Very fast growing delicate, fine-textured plant; handsome pink flowers.
<u>Thymus serpyllus</u> Mother-of-thyme	D	1" to 3"	Var.	Wide-Spreading	X	X	Inter-mediate				X	X		Often dies back in winter and is used as a perennial.
<u>Vinca minor</u> Periwinkle	D	3" to 6"	Var.	Wide-Spreading	X		Inter-mediate				X	X		Excellent evergreen ground cover; handsome lilac blue flowers.
<u>Wisteria floribunda</u> Japanese Wisteria	D	Var.	Var.		X	X	Inter-mediate				X	X		Needs ample support.
* <u>Wisteria frutescens</u> American Wisteria	D	Var.	Var.		X	X	Inter-mediate				X	X		
* <u>Xanthorhiza simplicissima</u> Yellowroot	D	12" to 24"	Var.	Wide-Spreading		X	Inter-mediate					X		Suckers freely from roots; good ground cover for moist areas.

* = Native Species



H. WILDFLOWERS

HERBACEOUS COVER

RED – PINK FLOWERING SPECIES

<u>SCIENTIFIC NAME</u> Common Name	HEIGHT	BLOOM TIME	SUN	COLOR
<u>Aquilegia canadensis</u> Wild Columbine	1'-3'	May	Full or Partial	Red - Yellow
<u>Cosmos bipinnata</u> Pink Cosmos	2'-3'	June – October	Full	
<u>Echinacea purpurea</u> Purple Coneflower	3'-4'	July	Full	Pinkish-Purple, Rust Center
<u>Eupatorium fistulosum</u> Joe-Pye Weed	5'-10'	August – September	Full	Purple - Pink
<u>Geranium maculatum</u> Crane's Bill Geranium	2'	April – May	Full	Rose – Purple
<u>Lavatera trimestris</u> Rose Mallow	3'	June – July	Full	Pink
<u>Liatris pycnostachya</u> Prairie Blazing Star	2'-3'	July	Full	Deep Pink
<u>Liatris squarrosa</u> Blazing Star	1'-2'	July – August	Full	Purple - Pink
<u>Lobelia cardinalis</u> Cardinal Flower	3'	August	Partial	Brilliant Red
<u>Lupinus perennis</u> Lupine	2'			*
<u>Paeonia</u> Peony	2'	May	Full or Partial	Pink – White - Rose
<u>Penstemon brevisepalu</u> Short Sepal Beard – Tongue	15"-30"	May – June	Partial	Pale Pink-Purple
<u>Phlox maculata</u> Meadow Phlox	20"-30"	July	Full or Partial	Reddish - Purple
<u>Phlox Paniculata</u> Fall Phlox	3'-4'	July	Full or Partial	Bright Pink
<u>Phlox pilosa</u> Prairie Phlox	1'-2'	April – May	Full	Pink – Purple
<u>Phlox subulata</u> Creeping Phlox	6"-8"	April – May	Full or Partial	Pink – White - Mauve
<u>Physostegia virginiana</u> Obedient Plant	1'-3'	August – September	Full or Partial	Pink-Violet



H. WILDFLOWERS

HERBACEOUS COVER

RED – PINK FLOWERING SPECIES

<u>SCIENTIFIC NAME</u> Common Name	HEIGHT	BLOOM TIME	SUN	COLOR
<u>Rosa carolina</u> Pasture Rose	1'-3'	June	Full or Partial	Pink, Yellow Eye
<u>Sabatia angularis</u> Rose Gentian	2'	June – July	Partial	Rose – Pink
<u>Saponaria officinalis</u> Bounding Bet	1' - 2'	June – September	Full	Pink, White
<u>Silene caroliniana</u> Wild Pink	10" – 12"	May	Full or Partial	Bright Pink
<u>Veronia altissima</u> Ironweed	4' – 7'	August – September	Full	Deep Purple Red



H. WILDFLOWERS

HERBACEOUS COVER

BLUE-PURPLE SPECIES

<u>SCIENTIFIC NAME</u> Common Name	HEIGHT	BLOOM TIME	SUN	COLOR
<u>Aster novae-angliae</u> New England Aster	2'-6'	October	Full	Purple
<u>Aster shortii</u> Short's Aster	2'-4'	September	Partial	Violet-Blue
<u>Camassia scilloides</u> Wild Hyacinth	1'-2'	May	Partial	Pale Blue
<u>Campanula americana</u> Tall Bellflower	2'-6'	July	Partial	Blue
<u>Campanula latifolia</u> Giant Bellflower	3'	July	Partial	Blue
<u>Centaurea cyanus</u> Cornflower	2'-3'	June – July	Sun	Blue
<u>Cichorium intybus</u> Chicory	1'-3'	June – September	Sun	Bright Blue
<u>Eupatorium coelestinum</u> Mistflower	1'-3'	August – October	Partial	Blue-Violet
<u>Hesperis matronalis</u> Sweet Pocket	1'-3'	May	Full or Partial	Purple, Lilac, Pink, White
<u>Liatris spicata</u> Spiked Gayfeather	3'-6'	August – September	Full or Partial	Lavender
<u>Lobelia siphilitica</u> Great Blue Lobelia	2'-3'	August – September	Partial	Blue
<u>Mertensia virginica</u> Virginia Bluebells	2'	April	Partial	Blue
<u>Monarda fistulosa</u> Bee-Balm	2'	July – August	Full	Lilac
<u>Phacelia bipinnatifida</u> Purple Phacelia	1'-2'	April – May	Partial	Purple, Blue-Violet
<u>Phlox divaricata</u> Blue Phlox	1'-2'	April – May		Blue
<u>Polemonium reptans</u> Jacob's Ladder	10"-15"	April	Partial	Blue, Blue-Violet
<u>Salvia azurea</u> Blue Sage	1'	July – September	Full	Blue
<u>Tradescantia subaspera</u> Zigzag Spiderwort	2'-4'	June	Partial	Purple
<u>Tradescantia virginiana</u> Early Spiderwort	6"-12'	June	Partial	Purple to Rose



VIII

**UNACCEPTABLE
PLANT MATERIALS**





A. LARGE TREES

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A/LT LARGE TREES (Over 50 Feet in Height)

UNACCEPTABLE PLANT MATERIALS

PLANT GROUP/SIZE	ACCEPTABLE PLANT	SCIENTIFIC NAME	COMMON NAME 'CULTIVAR'	COMMENTS
A/LT	No	Acer platanoides	Norway Maple	Due to verticillium issues, especially 'Crimson King'
A/LT	No	Acer saccharinum	Silver Maple	The use of this tree should be tempered because of its extensive shallow root system that will cause drain tiles to clog and sidewalks to buckle. The tree is also weak wooded which causes it to become a liability with age, often becomes too large for a street tree.
A/LT	No	Aesculus hippocastanum	Horse Chestnut	These trees are all very messy, which is caused by the large fruit and low rate of leaf drop. None of these trees are hardy in a restricted area and therefore they should not be used in an urban area.
A/LT	No	Betula papyrifera	Paper Birch	Susceptible to Bronze Birch Borer. Life expectancy in a site with some stress (i.e. street tree) is short in an urban area.
A/LT	No	Betula pendula	European White Birch	This tree is very popular, unfortunately the leaf miner and bronze Birch Borer are serious pests. Since most property owners will not take the necessary precautions it is advisable not to use this plant to meet any landscaping requirements. This tree is also intolerant of urban stress, short lived with low branching pattern.
A/LT	No	Castanea dentata Castanea mollissima	American Chestnut Chinese Chestnut	These trees are not useful for urban use because of their fruit that is a prickly involucre approximately 2-3" in diameter. The American Chestnut is also very susceptible to diseases. Flowers have an unpleasant odor. The tree is also intolerant of compacted soil.
A/LT	No	*Fraxinus americana Fraxinus excelsior *Fraxinus pennsylvanica	White Ash 'Autumn Purple' Common or European Ash 'Hessei' Green Ash	The Emerald Ash Borer kills these trees.



A. LARGE TREES

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A/LT LARGE TREES (Over 50 Feet in Height)

UNACCEPTABLE PLANT MATERIALS

PLANT GROUP/SIZE	ACCEPTABLE PLANT	SCIENTIFIC NAME	COMMON NAME 'CULTIVAR'	COMMENTS
		*Fraxinus quadrangulata	'Marshall's Seedless' 'Summit' Blue Ash 'True Blue'	
A/LT	No	Ginkgo biloba (female)	Ginkgo	The female of this species is unacceptable anywhere because of its fruit. The fleshy seed is extremely messy and malodorous.
A/LT	No	Gleditsia triacanthos	Common Honey Locust	This tree is too thorny for use in the urban environment and especially to meet the ordinance requirements.
A/LT	No	Kalopanax pictus	Castor Aralia	A good shade tree but excessive thorns make this tree unacceptable.
A/LT	No	Morus alba	White Mulberry	The mulberries are unsuitable because of the fruit that they produce, which is flesh and extremely messy.
A/LT	No	Morus rubra	Red Mulberry	
A/LT	No	Pinus nigra	Austrian Pine	Highly susceptible to Diplodia tip blight.
A/LT	No	Pinus sylvestris	Scotch Pine	Not suitable for underplanting or shelter belts. Variable hardiness, habit and adaptability.
A/LT	No	Populus (all)	Poplars (all) 'White Poplar' 'Easton Lombards' 'Quaking Aspen'	All poplars are unacceptable because they are disease prone, weak wooded and their roots will clog drain tiles, and storm and sanitary sewer lines.
A/LT	No	Pseudotsuga menziesii	Douglas Fir	Many disease problems. Not suitable for dry, windy areas or underplanting or windbreaks.
A/LT	No	Quercus palustris	Pin Oak	Highly susceptible to Bacterial leaf scorch.
A/LT	No	Ulmus americana	American Elm	The elms in general are disease prone, weak-wooded and messy requiring too much maintenance to warrant



A. LARGE TREES

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A/LT LARGE TREES (Over 50 Feet in Height)

UNACCEPTABLE PLANT MATERIALS

PLANT GROUP/SIZE	ACCEPTABLE PLANT	SCIENTIFIC NAME	COMMON NAME 'CULTIVAR'	COMMENTS
		Ulmus carpiniflora	Smoothleaf Elm	their use. Disease resistant cultivars of <u>Ulmus americana</u> will be acceptable.
		Ulmus fulva	Red Elm	
		Ulmus pumila	Siberian Elm	



B. MEDIUM TREES

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B/MT MEDIUM TREES (10 to 50 Feet in Height)

UNACCEPTABLE PLANT MATERIALS

PLANT GROUP/SIZE	ACCEPTABLE PLANT	SCIENTIFIC NAME	COMMON NAME 'CULTIVAR'	COMMENTS
B/MT	No	Albizia julibrissin	Mimosa Tree	The mimosa is not hardy in this area. This tree is weak wooded, and messy with seed pods littering the ground. It is not very disease and insect intolerant.
B/MT	No	Catalpa bignonioides	Southern Catalpa	Because of its weak wood and its fruit, this tree is too messy to warrant its use.
B/MT	No	Koelreuteria paniculata	Goldenraintree	Invasive
B/MT	No	Malus pumila	Common Apple	This tree is weedy and its fruit is too large to warrant the use of this tree to meet ordinance requirements. Some varieties are susceptible to disease.
B/MT	No	Paulownia tomentosa	Royal Paulownia	Messy, suffers winter damage.
B/MT	No	Pyrus calleryana (cultivars)	Callery Pear (cultivar) 'Bradford'	Approved by Planning Commission in February 2007. While this cultivar is in common use in both private and public landscaping it exhibits problems with branch separation from the main trunk.
B/MT	No	Pyrus communis	Common Pear	This tree is extremely susceptible to fireblight and its large fruit makes this tree unsuitable for urban use.
B/MT	No	Salix babylonica	Weeping Willow	Messy (always dropping small branches), weak wooded, susceptible to canker (disease), taps sewer and water lines.
B/MT	No	Sorbus (species)	Mountain Ash (species)	These trees are susceptible to a host of diseases and pests that should temper its use. Not recommended as a street tree because it is not urban tolerant and it has 1/4" fleshy seed pods. Best used in open lawn areas for private use.



C. LARGE SHRUB OR SMALL TREE

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C/LST LARGE SHRUB OR SMALL TREE (10 To 25 Feet in Height)

UNACCEPTABLE PLANT MATERIALS

PLANT GROUP/SIZE	ACCEPTABLE PLANT	SCIENTIFIC NAME	COMMON NAME 'CULTIVAR'	COMMENTS
C/LST	No	Aralia spinosa	Devil's Walking Stick Hercules Club	Vigorous spreader which can be a maintenance problem.
C/LST	No	Eleagnus angustifolia	Russian Olive	Short lived (8 to 15 years)
C/LST	No	Euonymus alatus	Winged Euonymus or Burning Bush	Invasive species.
C/LST	No	Euonymus kiautschovica	Spreading Euonymus	Susceptible to severe winter damage or death in 10% to 20% of the winters in Lexington. Flowers attract insects.
C/LST	No	Hibiscus syriacus	Rose of Sharon	With age, this shrub loses its form and becomes somewhat scraggly. Therefore it is unacceptable to meet long term landscaping needs.
C/LST	No	Kolkwitzia amabilis	Beautybush	This shrub is unsightly when it isn't flowering and it becomes weedy unless it is maintained properly.
C/LST	No	Laburnum x watereri	Golden Chain Tree	Flowers (main reason for growing plant) are killed most winters in Lexington. Seeds are also poisonous.
C/LST	No	Lagerstroemia indica	Crepe Myrtle	This plant is not hardy to this area and any of these plants which manage to survive Lexington winters become very leggy.
C/LST	No	Ligustrum (all)	Privets (all)	Privets require a lot of maintenance in order to form a suitable hedge. If a high degree of maintenance is not provided these shrubs become leggy, and subsequently they do not meet the required opacity of the landscape ordinance. Also susceptible to severe winter damage.
C/LST	No	Lonicera fragrantissima	Fragrant Honeysuckle	Invasive species.
C/LST	No	Lonicera tatarica	Tatarian Honeysuckle	Very weedy, seed is spread by birds.



C. LARGE SHRUB OR SMALL TREE

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C/LST LARGE SHRUB OR SMALL TREE (10 To 25 Feet in Height)

UNACCEPTABLE PLANT MATERIALS

PLANT GROUP/SIZE	ACCEPTABLE PLANT	SCIENTIFIC NAME	COMMON NAME 'CULTIVAR'	COMMENTS
C/LST	No	Malus (selected)	Crabapples (selected) 'Almey' 'Coro varia' 'Dorothea' 'Eley' 'Hopa' 'loensis' 'Oekonomierat Echtermeyer' 'Radiant' 'Red Silver' 'Sylvestris'	Many of the crabapples are susceptible to disease and insects.
C/LST	No	Prunus cerasifera (Straight species) Prunus persica	Cherry Plum (Straight Species) Peach	Both of these trees experience serious disease problems and are pollution sensitive.
C/LST	No	Rhamnus catharica	Common Buckthorn	Die back on compacted, water logged, or heavy soils. Susceptible to winter die back.
C/LST	No	Rhamnus frangula	Glossy Buckthorn	This shrub experiences serious disease problems and tends to become weedy because birds drop seeds. It also has problems surviving in areas with heavy traffic because of soil compaction. Invasive species.
C/LST	No	Staphylea trifolia	American Bladdernut	This shrub suckers extensively. Unless it is maintained properly it tends to become very weedy.
C/LST	No	Vitex agnus-castus	Chastetree	The Chastree is not hardy in the Central Kentucky area.



D. MEDIUM SHRUBS

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D/MS MEDIUM SHRUBS (6 to 10 Feet in Height)

UNACCEPTABLE PLANT MATERIALS

PLANT GROUP/SIZE	ACCEPTABLE PLANT	SCIENTIFIC NAME	COMMON NAME 'CULTIVAR'	COMMENTS
D/MS	No	Berberis julianae	Wintergreen Barberry	Semi-evergreen; numerous small thorns; hardiness is sometimes a problem; invasive.
D/MS	No	Euonymus alatus (Cultivar)	Winged Euonymus 'Compacta'	Develops to a larger size than most people expect, but much more compact than straight species; invasive.
D/MS	No	Ilex cornuta	Chinese Holly	Susceptible to severe winter damage or death in 20% to 30% of the winters in Lexington. Shoots that come back from the roots have leaves with 5 spines instead of the more attractive leaves with a single spine at the top.
D/MS	No	Philadelphus coronarius	Sweet Mocarange	Like other Philadelphus this shrub becomes leggy.
D/MS	No	Photinia villosa	Oriental Photinia	Although this is an excellent specimen plant, its problems with disease limits its use to meet landscaping requirements unless it is maintained properly.
D/MS	No	Prunus glandulosa	Dwarf Flowering Almond	This shrub becomes leggy with age and it is straggly and open in the winter.
D/MS	No	Pyracantha coccinea	Scarlet Firethorn	Fruit is very susceptible to scab (disease). Superior types of pyracanthe are available.
D/MS	No	Rhamnus fragula	Glossy Buckthorn	Invasive species.
D/MS	No	Spiraea prunifolia	Bridalwreath Spirea	Spireas are straggly in general and this particular species tends to be leggy.
D/MS	No	Weigela florida	Weigela	Weigelas are not hardy to this area and they generally have large amounts of die back during winter months.



E. SMALL SHRUBS

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E/SS SMALL SHRUBS (4 to 6 Feet in Height)

UNACCEPTABLE PLANT MATERIALS

PLANT GROUP/SIZE	ACCEPTABLE PLANT	SCIENTIFIC NAME	COMMON NAME 'CULTIVAR'	COMMENTS
E/SS	No	Berberis Koreana	Korean Barberry	Multi-stemmed form; suckers profusely and can become unkempt with age; size limits its use; invasive.
E/SS	No	Berberis thunbergii	Japanese Barberry	This popular barberry withstands drought conditions; invasive.
E/SS	No	Berberis x mentorensis	Mentor Barberry	Semi-evergreen; withstands cold and hot temperatures better than other barberries; invasive.
E/SS	No	Rhodotypos scandens	Jetbead	Invasive species.
E/SS	No	Rosa multiflora	Japanese Rose	This shrub becomes leggy after harsh winters and in general is very weedy and must have high maintenance to be kept under control.

E. LOW SHRUBS

F/LS LOW SHRUBS (1-1/2 to 4 Feet in Height)

UNACCEPTABLE PLANT MATERIALS

PLANT GROUP/SIZE	ACCEPTABLE PLANT	SCIENTIFIC NAME	COMMON NAME 'CULTIVAR'	COMMENTS
F/LS	No	Symphoricarpos rivularis	Common Snowberry	The snowberry suckers profusely and as a consequence becomes a very weedy shrub. It is not suitable as a hedge in an urban situation.

G. GROUND COVER

G/GC GROUND COVER (below 1-1/2 Feet in Height)

UNACCEPTABLE PLANT MATERIALS

PLANT GROUP/SIZE	ACCEPTABLE PLANT	SCIENTIFIC NAME	COMMON NAME 'CULTIVAR'	COMMENTS
G/GC	No	Euonymus fortunei	Wintercreeper Euonymus	Invasive.

