

SUBDIVISION OF LAND

255 Attachment 3

**APPENDIX A: RECOMMENDED TREES FOR
RADNOR TOWNSHIP**

[Added 3-10-2003 by Ord. No. 2003-6]

This appendix is not meant to be restrictive; trees which are not listed may be used.

For further information on sun, water and soil requirements, and the landscape value of the following trees, please consult the Manual of Woody Landscape Plants by Michael A. Dirr, which is available at the Radnor Memorial Library.

Due to endemic insect or fungal infestations at this time, the Shade Tree Commission does not include or recommend the following trees: *Cornus florida* (Flowering dogwood), *Pinus nigra* (Austrian pine) *Tsuga canadensis* (Canada hemlock), *Ulmus* species (Elms).

Key

1. Suitable for streets
2. Suitable for planting under utility wires
3. Evergreen
4. Tolerates poorly drained soils
5. Tolerates dry or poor soils
6. Tolerates partial shade
7. Native to Pennsylvania
8. Good for screen/windbreaks

Buffer screen plant list is included at the end of the appendix

Evergreen screening trees

Large-growing shrubs

Medium-growing shrubs

Low-growing shrubs

Minimum planting sizes for all plants

Large-growing trees, including cherries	2 ½"-3" c.	B&B
Ornamental trees (flowering, multitrunk or small growing)	6-8 ft.	B&B
Evergreen trees	6-8 ft.	B&B
Large-growing deciduous shrubs	4-5 ft.	B&B
Medium-size deciduous shrubs	3gal.	
Large-growing evergreen shrubs	2 ½'-3 ft.	B&B
Small shrubs and evergreens	1'-2ft.	

All plants should be properly planted to current industry standards and mulched, and all nonbiodegradable burlap, rope and twine removed from the root ball.

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Small Trees (20-35 feet)

Key	Latin Name	Common Name	Notes/Suggested Cultivars
1,1a	<i>Acer buergeranum</i>	Trident maple	
1,1a,4	<i>Acer campestre</i>	Hedge maple	
5	<i>Acer carpinifolium</i>	Hornbeam maple	
1,1a,5	<i>Acer ginnala</i>	Amur maple	
	<i>Acer griseum</i>	Paperbark maple	
	<i>Acer palmatum</i>	Japanese maple	
1,1a,4	<i>Acer tataricum</i>	Tatarian maple	
1,1a,5,6	<i>Amelanchier arborea</i>	Downy serviceberry	
1,1a,5,6	<i>Amelanchier canadensis</i>	Shadblow serviceberry	
1,1a,5,6	<i>Amelanchier laevis</i>	Allegheny sendceberry	
1,1a,5	<i>Amelanchier x grandiflora</i>	Apple serviceberry	
1,1a,3,5,6	<i>Calpinus caroliniana</i>	American hornbeam	
1,1a,5,6	<i>Cercis canadensis</i>	Eastern redbud	
3,6	<i>Chionanthus virginicus</i>	Fringe tree	
5,6	<i>Cornus alternifolia</i>	Pagoda dogwood	
1,1a	<i>Cornus kousa</i>	Kousa dogwood	
1,1a,5	<i>Cornus mas</i>	Cornelian cherry	
1,1a	<i>Crataegus crusgalli</i> var <i>inermis</i>	Thornless cockspur hawthorn	Cruzam, disease resistant
1,1a	<i>Crataegus laevigata</i>	English hawthorn	Superba, almost thornless
1,1a	<i>Crataegus phaenopyrum</i>	Washington hawthorn	Princeton sentry, almost thornless
6	<i>Crataegus punctata</i>	Dotted hawthorn	Ohio pioneer, fewer thorns
5	<i>Davidia involucrata</i>	Dove tree	
	<i>Franklinia alatamaha</i>	Franklinia	
5	<i>Halesia carolina</i>	Carolina silverbell	
2,5	<i>Ilex pedunculosa</i>	Longstock holly	
2,7	<i>Juniperus chinensis</i>	Chinese juniper	Kaizuka, specimen Robusta green, Spartan, hold color in winter: Canaertii, Emerald sentinel
1a	<i>Keolreuteria paniculata</i>	Goldenraintree	
1,1a	<i>Maackia amurensis</i>	Amur maackia	
1,1a	<i>Magnolia cordata</i>	Yellow cucumber tree	
1a	<i>Magnolia stellata</i>	Star magnolia	
3,6	<i>Magnolia virginiana</i>	Sweetbay magnolia	
1,1a	<i>Malus species</i>	Flowering crabapple	Disease-resistant cultivars

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Small Trees (20-35 feet)

Key	Latin Name	Common Name	Notes/Suggested Cultivars
			Adams, Cenzam, Hargozan, Mazam, Sprenger, Red Baron, Jewelcole, Snowdrift, Sentinel, Sutyzam
5	<i>Parrotia persica</i>	Persian parrotia	
2	<i>Pinus cembra</i>	Swiss stone pine	
2,7	<i>Pinus thunbergiana</i>	Japanese black pine	Good replacement for Austrian pine
1,1a	<i>Prunus serrulata</i>	Oriental cherry	Amanogawa, Kwanzan
1,	<i>Prunus subhirtella</i>	Higan cherry	Autumnailis
1,1a,5	<i>Stewartia koreana</i>	Korean stewartia	
1,5	<i>Stewartia pseudo camellia</i>	Japanese stewartia	
1a	<i>Syringa reticulata</i>	Japanses tree lilac	Ivory silk, summer snow, regent
2,3,5,6,7	<i>Thuja occidentalis</i>	American arborvitae	Emerald Nigra, Teclmy pyramidalis

Medium Trees (35-60 feet)

Key	Latin Name	Common Name	Notes/Suggested Cultivars
	<i>Aesculus x camea</i>	Red horsechestnut	
2,4,7	<i>Abies concolor</i>	White fir	
2,7	<i>Abies nordmanniana</i>	Nordmann fir	
1,3,6	<i>Acer rubrum</i>	Red maple	Autumn flame October glory Red sunset
3,4,5	<i>Alnus species</i>	Alders	
6	<i>Betula lenta</i>	Sweet birch	
3,6	<i>Betula nigra</i>	River birch	Heritage
	<i>Betula platphylla</i>	Japanese white birch	var. Japonica whitespire
2	<i>Calocedrus decurrens</i>	Incense cedar	
1	<i>Carpinus betulus</i>	European hornbeam	Fastigiata
2	<i>Cedrus atlantica</i>	Atlas cedar	Glauca, Fastigiata
1	<i>Cercididiphyllum japonica</i>	Katsura tree	
2,7	<i>Chamaecyparis nootkatensis</i>	Alaska cedar	
	<i>Cladrastis lutea</i>	American yellowwood	
	<i>Fagus sylvatica</i>	European beech	

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Medium Trees (35-60 feet)

Key	Latin Name	Common Name	Notes/Suggested Cultivars
4,6	<i>Fraxinus pennsylvanica</i>	Green ash	Nonfruiting trees preferred; Marshall seedless, Patmore, Summit
1,4,6	<i>Gleditsia triacanthos</i>	Common honeylocust	Imperial, Moraine, Shademaster, Skyline
2,5	<i>Ilex aquifolium</i>	English holly	Balkans – cold hardy
2,5,6	<i>Ilex opaca</i>	American holly	Angelica, Jersey knight, Wyetta
1,5,6	<i>Ostrya virginiana</i>	American hophornbeam	
6	<i>Oxydendrum arboreu</i>	Sourwood	
	<i>Phellodendrum amurense</i>	Amur corktree	Macho, shademaster
2,7	<i>Pinus bungeana</i>	Lacebark pine	
2,4	<i>Pinus densiflora</i>	Japanese red pine	
2,5	<i>Pinus flexilis</i>	Limber pine	
2,5	<i>Pinus parviflora</i>	Japanese white pine	Glauca
	<i>Prunus sargentii</i>	Sargent cherry	Columnaris
1	<i>Pyrus calleryana</i>	Callery pear	Aristocrat, Autumn blaze Capital Chanticleer, Redspire
1	<i>Quercus acutissima</i>	Sawtooth oak	
1,6	<i>Quercus imbricaria</i>	Single oak	
1,3,6	<i>Quercus phellos</i>	Willow oak	
2,4	<i>Sophora japonica</i>	Japanese pagodatree	Princeton upright
2,5,7	<i>Thuja plicata</i>	Giant arborvitae	Hybrid thuja, Green giant

Large Trees (60+ feet)

Key	Latin Name	Common Name	Notes/Suggested Cultivars
1,6	<i>Acer saccharum</i>	Sugar maple	Green mountain
2	<i>Cryptomeria japonica</i>	Japanese cedar	Yoshino, Benjamin franklin
6	<i>Fagus grandifolia</i>	American beech	
6	<i>Fraxinus americana</i>	White ash	Autumn Purpul, Autumn Applause, rose hill
1	<i>Ginko biloba</i>	Maidenhair tree	male species/ cultivars
1,4,6	<i>Gymnocladus dioicus</i>	Kentucky coffeetree	
1,6	<i>Liquidambar straciflue</i>	Sweetgum	
1,6	<i>Liriodendron tulipifera</i>	Tulip tree	Not a tree for parking areas
5,6	<i>Magnolia acuminata</i>	Cucumber tree	

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Large Trees (60+ feet)

Key	Latin Name	Common Name	Notes/Suggested Cultivars
1,3	Metasequoia glyptostrodoides	Dawn redwood	
1,3,5,6	Nyssa sylvatica	Black tupelo	
2,7	Picea abies	Norway spruce	The best spruce for this area. Avoid planting spruces with Douglas firs due to Cooley spruce gall adelgid
2,4,7	Picea orientalis	Oriental spruce	
2,7	Picea omorika	Serbian spruce	
2,6,7	Pinus strobus	White pine	Fastigiata, less subject to ice/snow damage
2,5	Pinus wallichiana	Himalayan pine	Golden
	Pseudolarix kaempferi	larch	
2,7	Pseudotsuga menziessi	Douglas fir	Avoid planting with spruces due to Cooley spruce gall adelgid
1,4,6	Quercus macrocarpa	Bur oak	
1,3,6	Quercus palustris	Pin oak	
1	Quercus robur	English oak	Attention, resistant to mildew
1,6	Quercus rubra	Northern red oak	
3,6	Quercus bicolor	Swamp white oak	
1,4,6	Quercus shumardii	Shumard oak	
1,3	Taxodium distichum	Bald cypress	
1,4,5	Tilia cordata	Littleleaf linden	Not a tree for parking areas due to aphid secretions
1,4,5	Tilia tomentosa	Silver linden	
1,4,5	Zelkova serrata	Japanese zelkova	

Note: All street trees in this group should be planted in broad lawn areas or planting strips exceeding six feet to provide ample space for root development.

Buffer Screen Plant List

This list is not meant to be restrictive; frees and shrubs which are not listed may be used. For additional information on Trees and Shrubs, their landscape use, sun, water, and soil requirements, please consult the Manual of Woody Landscape Plants by Michael A. Dirr, which is available in the Radnor Memorial Library.

Buffer screen plantings could, but do not always have several types of trees and shrubs. The style of the buffer screen planting will be determined by the landscape of the site.

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Minimum planting sizes for all plants

Large-growing trees, including cherries	2 ½"-3" c.	B&B
Ornamental trees (flowering multitrunk or small growing)	6-8 ft.	B&B
Evergreen trees	6-8 ft.	B&B
Large-growing deciduous shrubs	4-5 ft.	B&B
Medium-size deciduous shrubs	3 gal.	
Large-growing evergreen shrubs	2 ½'-3'	B&B
Small shrubs and evergreens	1' – 2 ft.	

All plants should be properly planted to current industry standards and mulched, and all nonbiodegradable burlap, rope and twine removed from the root ball.

Evergreen screening trees; also see the above list

Ilex opaca	Native holly	Deer resistant
Cryptomeria japonica	Japanese cryptomeria	Keeps its lower branches
Thuja plicata	Giant western arborvitae	Deer resistant unlike the common arborvitae
Picea abies	Norway spruce	
Picea orientalis	Oriental spruce	Graceful tree

Avoid white pines, pinus strobus, as they are easily damaged and lose branches in storms, and should not be planted near buildings. White pines are large wide-growing timber trees. They lose their lower branches and thus any screen effect for which they were planted in just a few years. Better to plant a mix of large-growing shrubs and trees to create a buffer.

Large-growing shrubs

Deciduous Shrubs

Viburnums	Large-growing species and cultivars	The ornamental value varies with the species
Euonymus alatus	Burning bush	Common, a good choice for tough sites
Ilex verticillata	Winterberry holly	Winter interest
Hamamelis sp.	Witchhazels	

Evergreen Shrubs

Ilex crenata	Japanese holly	Large-growing cultivars
Ilex glabra	Inkberry holly	Size depends on cultivar
Rhododendron	Rhododendrons	Do well in shade, deer treat semi
Taxus sp.	Yew	Size depends on cultivar, deer treat
Viburnum rhytidophyllum	Leatherflef viburnum	Deer resistant

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Medium growing shrubs

Deciduous Shrubs

Fothergilla	Fothergilla	Size depends on the species
Spiraea	Spiraea	The ornamental value varies with the species
Viburnums	Small-growing species and cultivars	

Evergreen shrubs

Ilex crenata CV.	Compact Japanese holly	Select compact cultivars
Chamaecyparis obmsa	Hinoki falsecypress	Specimen plant
Rhododendrons SP	Azalea	Not for full sun, deer treat
Taxus sp.	Yew	Spreading types, deer treat
Viburnum x Pragense	Prague viburnum	

Low-growing shrubs

Look at compact or spreading cultivars and species. Avoid the Rug junipers as they are susceptible to a fungus and diseases that are endemic in the area.