

NETHER PROVIDENCE TOWNSHIP
DELAWARE COUNTY, PENNSYLVANIA
ORDINANCE NO. 739

AN ORDINANCE OF THE TOWNSHIP OF NETHER PROVIDENCE AMENDING CHAPTER 289 OF THE TOWNSHIP CODE (SUBDIVISION AND LAND DEVELOPMENT) TO REQUIRE THAT CERTAIN INFORMATION REGARDING TREES BE SUBMITTED ON SUBDIVISION AND LAND DEVELOPMENT PLANS, TO REQUIRE THAT TREES BE PLANTED IN CONNECTION WITH CERTAIN DEVELOPMENT ACTIVITIES AND PROVIDING CERTAIN SPECIFICATIONS FOR SUCH TREES

WHEREAS, § 503 of the Municipalities Planning Code (53 P.S. § 10503) authorizes municipalities to enact subdivision and land development ordinances containing provisions requiring (i) the submittal of plans containing certain specifications; and (ii) governing standards by which streets and sidewalks shall be designed and improved and requiring that certain improvements be installed in and along streets and sidewalks in connection with development activities; and

WHEREAS, the Board of Commissioners desires to amend the Township's subdivision and land development ordinance to require that certain information regarding shade trees and landscaping be provided on subdivision and land development plans and to require that trees be planted in connection with certain development activities and providing specifications for appropriate species and planting methods of trees.

NOW, THEREFORE, the Board of Commissioners of Nether Providence Township, Delaware County, Pennsylvania does hereby ENACT and ORDAIN the following:

Section 1 . Amendment of § 289-2.B of the Township Code (Definitions) to add new defined terms. § 289-2.B of the Code of Nether Providence Township is hereby amended by adding the following new definitions, to be inserted in § 289-2.B in alphabetical order:

CALIPER – Standard measurement of a tree's diameter taken at twelve (12) inch height.

DRIP LINE – A limiting line established by a series of vertical drop points marking the maximum radius of the crown of an existing tree but not less than fifteen (15) feet from the tree trunk. This area is to be protected from all construction activities, including earth disturbance, compaction, foot or vehicular traffic and material stockpiling.

EARTH DISTURBANCE - A construction or other human activity which disturbs the surface of land, including but not limited to clearing and grubbing, grading, excavations, embankments, land development, agricultural plowing or tilling, timber harvesting activities, road maintenance activities, mineral extraction, and the moving, depositing, stockpiling, or storing of soil, rock, or earth materials.

HERITAGE TREE – Any of the following:

- (1) A tree associated with a notable or regional historical event, person, structure or landscape;*
- (2) A tree of exceptional age or rare species; or*
- (3) A tree of thirty six (36) inch or greater caliper.*

PROTECTIVE TREE FENCE – A temporary fence installed, at minimum, around the drip line of any tree which is to be preserved during construction operations, inside of which no grading, storing or dumping of any material may occur.

PUBLIC STREET OR HIGHWAY - Any Township, County or State right-of-way, a portion of which is used for vehicular or pedestrian travel.

STREET TREE – Any tree within any public right-of-way.

TOWNSHIP – The Township of Nether Providence

TREE PROTECTION ZONE – An area that is radial to the trunk of a tree. The tree protection zone shall be fifteen (15) feet from the trunk of the tree to be retained, or the distance from the trunk to the dripline, whichever is greater. Where there is a group of trees or woodlands, the tree protection zone shall be the aggregate of the protection zones for the individual trees.

Section 2. Amendment of § 289-22.D(5) of the Township Code (Plan Requirements, landscape plan) to require the submission of certain information relating to trees on preliminary plans.

A. § 289-22.D(5) of the Code of Nether Providence Township is hereby amended by deleting existing subsection (b) thereof in its entirety and replacing it with the following new subsection (b):

- (b) The size, species and location of all trees with a caliper of twelve inches (12") or greater. All such trees to be removed are to be designated with an X."*

B. § 289-22.D(5) of the Code of Nether Providence Township is hereby amended by adding the following new subsections (d) and (e):

- (d) Approximate location of trees with a caliper of twelve inches (12") or greater on adjoining properties that are located within 10 feet of the property line (said locations can be approximated from the subject property or via existing aerial photographic data).*
- (e) Location of all Heritage trees."*

Section 3 . Amendment of § 289-20 of the Township Code (Landscaping) to impose certain revised landscaping design guidelines. § 289-20 of the Code of Nether Providence Township is hereby amended by deleting the existing text thereof in its entirety and replacing it with the following:

A. General Landscaping Requirement. Any part or portion of any lot or tract, which is not occupied by buildings or structures or used for loading, parking spaces and aisles, pedestrian circulation, designated storage areas, and other permitted impervious or semi pervious surfaces shall be landscaped according to an overall Landscape Plan approved by the Board of Commissioners OR shall be left in its natural state (e.g., forest meadow or hedgerow).

B. Buffering and Screening. All subdivision or land development plans shall comply with the requirements set forth in the Township Zoning Ordinance as applicable.

C. Street Trees.

(1) All subdivisions and land developments shall provide street trees along the entire length of any existing or proposed public street and on both sides of any street within the subdivision or land development, except where the Shade Tree Commission agrees that suitable street trees are already in place.

(2) No less than one street tree shall be provided for every 35 feet of street frontage. If any lot has a frontage of less than 35 feet then at least one street tree shall be provided on each lot.

(3) One of the following street tree planting concepts shall be used, subject to Township approval:

a. Formal Allee of Street Trees

i. Use uniform street tree variety.

ii. Coordinate new plantings with existing street tree plantings where applicable. A uniform canopy from both sides of the street shall be provided.

iii. Street trees shall be located within the tree lawn within the right of way. The width of the tree lawn (the planted area between the sidewalk and the curb) shall be no less than 3 feet for secondary streets and six feet for residential streets.

iv. Use a minimum of three (3) species of trees.

b. Naturalized Street Tree Planting

i Vary street tree varieties or species:

ii. *An average of one street tree shall be planted for every 35 feet of street frontage, provided that lots with less than 25 feet of frontage shall have at least one street tree.*

iii. *Street trees shall be located within the tree lawn within the right of way. The width of the tree lawn (the planted area between the sidewalk and the curb) shall be no less than 3 feet for secondary streets and six feet for residential streets.*

iv. *Planting design shall accentuate views and integrate important landscape elements.*

(4) *Street trees shall meet the following standards:*

a. *Minimum Size - 3-3 1/2 inches caliper.*

b. *Branching Height - The height of branching shall bear a relationship to the size and species of tree; those trees selected for street tree usage shall have a minimum clearance height of seven (7) feet above grade before branching begins.*

c. *All trees to be installed shall be balled and burlapped in accordance with American Association of Nurserymen Standards. The ball depth shall be not less than 60 percent of the ball diameter and in all cases contain the maximum of the fibrous roots of the tree. Bare root material is not acceptable. The following standards shall apply:*

<i>Caliper</i>	<i>Minimum Ball Diameter</i>
<i>3 to 3-1/2 inches</i>	<i>32 inches</i>
<i>3-1/2 to 4 inches</i>	<i>36 inches</i>

d. *Excavated plant pits shall be two (2) feet wider than the ball size.*

e. *Backfill mix for the excavated plant pit area shall be composed of screened top soil and/or compost.*

f. *Tree Guying*

i. *Three (3) No. 12 galvanized steel wires shall be spaced equally around the tree and connected to the tree within rubber hoses so that the wire does not come in contact with the tree. In the condition where space does not allow three stakes, a single stake will be acceptable.*

ii. *Stakes shall be 2" x 2" x- 8' 0" rough sawed stakes.*

iii. *All tree guying material shall be removed one (1) year after planting.*

g. *Plant trees at ground level or slightly above ground level as grown in nursery. The root flare of each tree shall be exposed. Root balls shall be prepared for planting by cutting off and removing the top one-half of any wire basket and/or removing burlap and twine from the top one-half of the root ball. Synthetic burlap and twine or burlap treated with root inhibitors shall not be used unless such materials are cut and removed completely.*

h. *All plantings shall be mulched to a depth of two to three inches and the mulch shall not touch the tree trunk and shall cover the width of the tree lawn area.*

i. *Each planting shall be pruned to preserve the natural character of the planting in a manner appropriate to the particular requirements. Branches should be thinned by removal of crossing, damaged or competing limbs back to the major crotch. The leader is to be left intact.*

j. *Plant Material*

i. *Selected street trees shall be hardy species with minimal maintenance requirements and shall be selected such that at maturity, they shall provide adequate summer shade. Selected street tree species shall be of the non-grafted type.*

ii. *Plantings and their measurement shall conform to the standards of the publications "American or U.S.A. Standard for Nursery Stock", American National Standards Institute (ANSI) or U.S.A.S. Z60.1 of the American Association of Nurserymen, as amended. All plant material used on the site shall have been grown within the same U.S. Department of Agriculture (USDA) hardiness zone as the site, shall be free of disease, and shall be nursery grown, unless it is determined by the Township that the transplanting of trees partially fulfills the requirements of this section.*

iii. *Required street trees shall be selected from the species listed on Appendix A which are indicated on Appendix A as being appropriate for street trees. Where street trees shall be planted under utility wires, only street trees designated on Appendix A as being suitable for planting under utility wires shall be selected.*

D. *Vegetation Disturbance and Replacement.*

1. *Any earth disturbance in excess of 500 square feet shall require provision for vegetation replacement as set forth in Subsection 289-20.D(5) below.*

2. *In determining where necessary earth disturbance shall occur, applicant shall consider the location(s) and benefit of conservation of healthy mature woodland stands and the impacts, in terms of functions and values to wildlife, of separating, dividing and or encroaching on wildlife travel corridors*

and/or extensive habitat areas.

3. *Vegetation intended to remain post-disturbance shall be protected from damage. The following procedures shall be utilized during construction in order to protect remaining vegetation:*

a. *Where existing vegetation is to remain, no change in existing grade shall be permitted within the drip line of any trees. Appropriate fencing 4 feet in height shall be placed at the drip line of trees to remain, wherever adjacent to proposed construction. Such fencing shall be maintained in place throughout the duration of construction activity. Roots shall not be cut within the drip line of any trees to remain.*

b. *Trees within 25 feet of a building, or bordering entrances or exits to building sites, shall be protected by a temporary barrier to be maintained in place throughout the duration of construction activity.*

c. *No boards or other material shall be nailed or otherwise attached to trees during construction.*

d. *Construction materials, equipment, soil and/or debris shall not be stored nor disposed of within the drip lines of trees to remain. Tree trunks, limbs, and exposed roots damaged during construction shall be protected from further damage by being treated immediately in accordance with accepted professional landscape procedures.*

4. *Where any tree greater than twelve inches (12") caliper is removed without prior Township approval or where any tree greater than 12" caliper is indicated as not subject to disturbance on any approved final plan and is subsequently removed, replacement plantings in addition to any otherwise required shall be installed in a manner acceptable to the Township at a rate of ten (10) trees of at least 3½" caliper for each tree so removed. Any other applicable penalty under law also shall be imposed.*

5. *Calculation of Required Vegetation Replacement.*

Where earth disturbance exceeds the standards set forth in Subsection 289-20.D.1 above, applied independently and cumulatively, replacement plantings shall be installed in accordance with the standards set forth below. A sample list of acceptable replacement plantings is found in Appendix A.

a. *Required replacement trees shall be determined using the calculation set forth below which results in the greatest number of replacement trees. Credit shall be given for street trees as replacement trees:*

i. *Replacement Tree Calculation Based on Area of Earth Disturbance. At a minimum, for each five hundred (500) square feet of earth disturbance area, or fraction thereof, and regardless of the character and*

sizes of the disturbed vegetation, one tree at least 2" caliper shall be planted.

ii. Replacement Tree Calculation Based on Specific Tree Removal. Regardless of any earth disturbance allowances, for each tree with a caliper greater than 12" to be removed, required replacement trees also shall be calculated in accordance with the following schedule.

<u>For each tree to be removed, At the following calipers:</u>	<u>Minimum number & Caliper Of replacement trees:</u>
One, 12" to 18" caliper	One 2" caliper
One, greater than 18" to 24" caliper	Two 2" caliper
One, greater than 24" to 36" caliper	Three 2" caliper
One, greater than 36" caliper	Four 3 ½" caliper

Replacement trees should have a minimum 2" caliper. Replacement trees for a Heritage tree shall have a minimum 3 ½" caliper.

6. In the event that the applicant establishes to the satisfaction of the Township that constraints incident to the land itself (including, but without limitation, extreme topography, unsuitable soils, rock outcrops and existing uninterrupted dense canopy) render it impractical to locate on the lot the required number of replacement plantings or street trees, then, at the election of the Township and where approved by the Township as a condition of any applicable subdivision or land development approval, the applicant shall undertake one or a combination of the following:

a. Install fewer, larger or more valuable trees with an aggregate cost as installed and guaranteed not less than the estimated aggregate cost of the required number of plantings.

b. Install required replacement plantings at a site or sites other than that subject to required replacement planting.

c. In lieu of actual installation of replacement plantings, place the equivalent cash value, as agreed upon by the Township and the applicant, for required replacement plantings into a special fund established for that purpose. Such fund shall be utilized at the discretion of the Township for the management and maintenance of public street trees within the Township.

7. Required replacement vegetation and their measurement shall conform to the standards of the publications "American or U.S.A. Standard for Nursery Stock," ANSI or U.S.A.S.Z60.1 of the American Association of Nurserymen, as amended. All plant material used on the site shall have been grown within the same USDA hardiness zone as the site and shall be nursery grown, unless it is determined by the Township that the transplanting of trees partially fulfills the requirements of this section.

8. *Species of replacement plantings selected and planting locations shall reflect careful site evaluation and in particular the following considerations:*

a. *Existing and proposed site conditions and their suitability for the plant materials, based upon the site's geology, hydrology, soils, and microclimate.*

b. *Specific functional and design objectives of the plantings, which may include but not necessarily be limited to: replacement of woodland area removed, enhancement of existing woodland area(s), reforestation of riparian buffer areas, provision for landscape buffer, visual screening, noise abatement, energy conservation, wildlife habitats, and aesthetic values,*

c. *Maintenance considerations such as hardiness, resistance to insects and disease, longevity, and availability.*

d. *Because of the many benefits of native plants (ease of maintenance, longevity, wildlife habitat, etc), the use of nursery grown free fruiting native trees and shrubs is strongly encouraged. Species selection should reflect species diversity characteristic of the native deciduous woodland.*

9. *The locations, selected species, and sizes of all replacement plantings, along with a planting schedule tied to the timing and/or phasing of the development, shall be indicated on the final subdivision/land development plan(s) or building permit application, as applicable.*

10. *All replacement plantings shall be guaranteed and maintained in a healthy and/or sound condition for at least eighteen (18) months or shall be replaced. The eighteen (18) month period starts from the date of final approval for escrow release. In addition, the applicant may be required to escrow sufficient additional funds for the maintenance and/or replacement of the proposed vegetation during the 18- month replacement period and to provide for the removal and replacement of trees damaged during construction, based upon the recommendation of the Township Engineer.*

Section 4. Amendment of § 289-22.D(9) of the Township Code (Plan Requirements, landscaping and grading plan) to require the submission of certain landscaping plan information on preliminary plans. § 289-22.D(9) of the Code of Nether Providence Township is hereby amended by deleting the existing subsection (d) thereof in its entirety and replacing it with the following new subsection (d):

“(d) A landscape plan illustrating the size, species and location of trees to be planted in compliance with the tree replacement requirements of this ordinance and other plantings to be provided and such other matters as may be required by Section 289-20 hereof. The planting plan shall include a chart summarizing sizes of trees to be removed and trees to be planted. Appendix A provides a list of suggested plants. Appendix B provides a list of invasive plants, which are not to be used. The planting plan shall illustrate the location of

protective tree fence around trees to remain. The landscape plan shall clearly identify all landscaped areas and any areas to be left in a natural state."

Section 5. Severability. If any section, subsection, sentence, clause or phrase of this Ordinance is, for any reason, held to be unconstitutional or invalid, such decision shall not affect the validity of the remaining portions of this Ordinance. The Commissioners of the Township of Nether Providence hereby declare that it would have passed this Ordinance, and each section, subsection, clause or phrase thereof irrespective of the fact that any one or more sections, subsections, sentences, clauses and phrases be declared unconstitutional.

Section 6. Savings Clause. Nothing in this Ordinance hereby adopted shall be construed to affect any other suit or proceeding pending in any court or any rights acquired or liability incurred, or any cause of causes of action acquired or existing, nor shall any just legal right or remedy of any character be lost, impaired or affected by this Ordinance.

Section 7. Immediate Effect. This Ordinance and rules, regulations, provisions, requirements, orders and matters established and adopted hereby shall take effect and be in full force and effect immediately from and after the date of its final passage and adoption.

Section 8. Repealer. All ordinances or parts of ordinances in conflict with the provisions of this Ordinance are hereby repealed to the extent of such conflict.

ORDAINED AND ENACTED by the Board of Commissioners of Nether Providence Township, Delaware County, Pennsylvania.

Enacted this *12th* day of *February*, 200*9*.

COMMISSIONERS OF THE TOWNSHIP
OF NETHER PROVIDENCE

BY: *Lin Axamethy Floyd*
LIN AXAMETHY FLOYD,
PRESIDENT

(TOWNSHIP SEAL)
ATTEST:

BY: *Gary Cummings*
GARY CUMMINGS,
TOWNSHIP MANAGER, SECRETARY

Appendix A: Plant List

Key			Size
1	Suitable for streets		Small 20-35'
2	Suitable for planting under utility wires		Medium 35-60'
3	Evergreen		Large 60' +
4	Tolerates poorly drained soils		
5	Tolerates dry or poor soils		
6	Tolerates partial shade		
7	Native to Pennsylvania		
8	Flowering Tree		
Key	Latin Name	Common Name	Size
1,4	<i>Acer rubrum</i> 'Burgundy Beauty'	Red Maple	Large
3	<i>Abies concolor</i>	White Fir	Medium
3	<i>Abies koreana</i>	Korean Fir	Medium
3	<i>Abies nordmanniana</i>	Nordman Fir	Large
1,2,6	<i>Acer buergerianum</i>	Trident Maple	Medium
1,2,5,6	<i>Acer campestre</i>	Hedge Maple	Small
1,2,6	<i>Acer ginnala</i>	Amur Maple	Large
1,2,6,	<i>Acer griseum</i>	Paperbark Maple	Medium
2,6,	<i>Acer palmatum</i>	Japanese Maple	Small
1,4,7	<i>Acer rubrum</i>	Red Maple	Large
1,7	<i>Acer saccharum</i> 'Green Mountain'	Sugar Maple	Large
6	<i>Acer triflorum</i>	Three Flower Maple	Small
1,2,8	<i>Aesculus pavia</i>	Red Buckeye	Small
1,8	<i>Aesculus x carnea</i>	Horse Chestnut	Medium
2,4,6,7,8	<i>Amelanchier Canadensis</i>	Shadblow, Serviceberry	Small
4,7,	<i>Betula lenta</i>	Sweet Birch	Medium
4,7,	<i>Betula nigra</i> 'Heritage'	River Birch	Medium
2,6,7,	<i>Carpinus caroliniana</i>	American Hornbeam	Medium
3	<i>Cedrus atlantica</i>	Atlas Cedar	Medium
5	<i>Cercidiphyllum japonica</i>	Katsura Tree	Medium
2,6,7,8	<i>Cercis Canadensis</i>	Eastern Redbud	Small
1,4,7,8	<i>Chionanthus virginicus</i>	Fringe Tree	Medium
1,7,8	<i>Cladrastis kentukea</i>	Yellowwood	Medium
2,6,8	<i>Cornus</i> 'Rutban' Aurora	Hybrid dogwood	Small
2,6,8	<i>Cornus</i> 'Rutlan' Ruth Ellen	Hybrid dogwood	Small
1,2,6,8	<i>Cornus kousa</i>	Kousa Dogwood	Medium
1,2,,8	<i>Cornus mas</i>	Cornelian Cherry	Small
2	<i>Crataegus viridis</i> 'Winter King	Winter King Green Hawthorn	Medium
3	<i>Cryptomeria japonica</i> 'Yoshino'	Japanese Cedar	Medium
6,8	<i>Davidia involucrate</i>	Dove Tree	Medium
7	<i>Fagus grandifolia</i>	American Beech	Large
7	<i>Fraxinus Americana</i>	White Ash	Large

Key	Latin Name	Common Name	Size
1,5	<i>Ginkgo biloba</i> (male only)	Ginkgo	Large
1,7,	<i>Gleditsea triacanthos</i> var. <i>inermis</i>	Halka Honeylocust	Medium
6,7,8	<i>Halesia diptera</i> var. <i>magniflora</i>	Two Winged Silverbell	Medium
6,7,8	<i>Halesia tetraptera</i>	Carolina Silverbell	Medium
2,8	<i>Hamamelis x intermedia</i> 'Diane'	Asiatic Witch Hazel	Small
2,8	<i>Hamamelis x intermedia</i> 'Pallida'	Asiatic Witch Hazel	Small
3,7	<i>Ilex opaca</i>	American Holly	Medium
3,5,7	<i>Juniperus virginiana</i> Emerald Sentinel	Eastern Red Cedar	Medium
1,5,8	<i>Kolreuteria paniculata</i> 'Rose Lantern'	Golden Rain Tree	Medium
4,6,7,	<i>Liquidambar styraciflua</i>	Sweet Gum	Large
6,7	<i>Liriodendron tulipifera</i>	Tulip Tree	Large
1,2	<i>Maackia amurensis</i> 'Starburst'	Amur Maackia	Small
1,8	<i>Magnolia</i> 'Daybreak'	Pink Hybrid Magnolia	Small
1,8	<i>Magnolia</i> 'Elizabeth'	Yellow Hybrid Magnolia	Small
1,8	<i>Magnolia</i> 'Galaxy'	Pink Hybrid Magnolia	Medium
7,8	<i>Magnolia acuminata</i>	Cucumber Tree	Large
3,8	<i>Magnolia grandiflora</i> 'Bracken's Brown Beauty'	Southern Magnolia	Medium
3,8	<i>Magnolia grandiflora</i> 'Edith Bogue'	Southern Magnolia	Medium
2,4,8	<i>Magnolia stellata</i> 'Centennial'	Star Magnolia	Small
2,4,7,8	<i>Magnolia virginiana</i>	Sweetbay	Small
2,8	<i>Malus</i> 'Adirondak'	Crabapple	Medium
2,8	<i>Malus</i> 'Donald Wyman'	Crabapple	Medium
2,8	<i>Malus</i> 'Jewelberry'	Dwarf Crabapple	Small
1,8	<i>Malus</i> 'Sentinel'	Crabapple	Medium
1,4	<i>Metasequoia glyptostroboides</i>	Dawn Redwood	Large
1,4,6,7,	<i>Nyssa sylvatica</i>	Sourgum, Black Tupelo	Large
7	<i>Ostrya virginiana</i>	American Hornbeam	Medium
6,7,8	<i>Oxydendrum arboretum</i>	Sourwood	Medium
6	<i>Parrotia persica</i>	Persian Parrotia	Medium
3	<i>Picea abies</i>	Norway Spruce	Medium
3	<i>Picea omorika</i>	Serbian Spruce	Medium
3	<i>Picea orientalis</i>	Oriental Spruce	Medium
3	<i>Pinus bungeana</i>	Lacebark Pine	Medium
3	<i>Pinus flexilis</i>	Limber Pine	Medium
3	<i>Pinus strobes</i>	Eastern White Pine	Large
3	<i>Pinus strobus</i> 'Fastigiata'	Upright Eastern White Pine	Medium
3	<i>Pinus thunbergiana</i>	Japanese Black Pine	Medium
4	<i>Platanus acerifolia</i>	Plane Tree	Large
4,7	<i>Platanus occidentalis</i>	American Sycamore	Medium
1,2,8	<i>Prunus</i> 'Hally Jolivette'	Hally Jolivette Cherry	Small
1,2,8	<i>Prunus</i> 'Okame'	Okame Cherry	Medium
1,2,8	<i>Prunus sargentii</i> 'Rancho'	Sargent Cherry	Medium
3	<i>Pseudotsuga menziesii</i>	Douglas Fir	Large

Key	Latin Name	Common Name	Size
7	<i>Quercus alba</i>	White Oak	Large
1,4,7	<i>Quercus bicolor</i>	Swamp White Oak	Large
1,7	<i>Quercus coccinea</i>	Scarlet Oak	Large
1,5	<i>Quercus palustris</i>	Pin Oak	Large
1,5	<i>Quercus palustris</i> 'Pringreen'	Green Pillar Pin Oak	Large
1,4,7	<i>Quercus phellos</i>	Willow Oak	Large
6,7	<i>Quercus rubra</i>	Red Oak	Large
1,5,7	<i>Robinia pseudoacacia</i> var. <i>inermis</i>	Black Locust	Large
3	<i>Sciadopitys verticillata</i>	Japanese Umbrella Pine	Medium
1	<i>Sophora japonica</i>	Japanese Pagoda Tree	Medium
6,8	<i>Stewartia pseudocamellia</i> var. <i>Koreana</i>	Korean Stewartia	Small
1,2,8	<i>Syringa reticulata</i> 'Ivory Silk'	Japanese Tree Lilac	Medium
1,4,7	<i>Taxodium distichum</i>	Bald Cypress	Medium
3	<i>Thuja</i> 'Green Giant'	Hybrid Thuja	Large
3,7	<i>Thuja occidentalis</i>	American Arborvitae	Medium
1	<i>Tilia americana</i> 'Redmond'	Basswood, Linden	Large
1	<i>Tilia tomentosum</i>	Silver Linden	Large
1,6	<i>Zelkova serrata</i> 'Green Vase'	Japanese Zelkova	Large

Appendix B: Excluded Invasive Trees and Shrubs

Excluded Invasive Trees

Latin Name	Common Name
<i>Acer platanoides</i>	Norway Maple
<i>Acer pseudoplatanus</i>	Sycamore Maple
<i>Ailanthus altissima</i>	Tree of Heaven
<i>Paulownia tomentosa</i>	Princess Tree
<i>Pyrus calleryana</i> & all cultivars	Callery Pear
<i>Ulmus pumila</i>	Siberian Elm

Excluded Invasive Shrubs

Latin Name	Common Name
<i>Alnus glutinosa</i>	European black alder
<i>Berberis thunbergii</i>	Japanese barberry
<i>Berberis vulgaris</i>	European barberry
<i>Elaeagnus angustifolia</i>	Russian olive
<i>Elaeagnus umbellata</i>	Autumn olive
<i>Euonymus alatus</i>	Winged Euonymus
<i>Evodia danielli</i>	Korean Evodia
<i>Ligustrum obtusifolium</i>	Border privet
<i>Ligustrum vulgare</i>	Common privet
<i>Lonicera maackii</i>	Amur honeysuckle
<i>Lonicera morrowii</i>	Morrow's honeysuckle
<i>Lonicera morrowii</i> x <i>tatarica</i>	Bell's honeysuckle
<i>Lonicera standishii</i>	Standish honeysuckle
<i>Lonicera tatarica</i>	Tartarian honeysuckle
<i>Morus alba</i>	Mulberry
<i>Rhamnus cathartica</i>	Common buckthorn
<i>Rhamnus frangula</i>	Glossy buckthorn
<i>Rosa multiflora</i>	Multiflora rose
<i>Rubus phoenicolasius</i>	Wineberry
<i>Spiraea japonica</i>	Japanese spiraea
<i>Viburnum opulus</i> var. <i>opulus</i>	Gelder rose

Source – PA Department of Conservation and Natural Resources
<http://www.dcnr.state.pa.us/forestry/invasivetutorial/List.htm>

