Table 284.3.2-A - City of Tampa Tree Matrix

TREE TYPE / SIZE / FORM			TREE DENDROLOGY				TYPICAL CHARACTERISTICS				
Tree Type [1]	Tree Size [2]	FL Grades & Standards Tree Type-Form [3]	Common Name	Scientific Name	Plant Family	Florida Native	Mature Crown Spread	Mature Height	Species Rating [4,5]	Growth Rate [6]	POWER LINE TREE? (Y/N)
SHADE	SMALL	TYPE 1	Oriental Sweetgum	Liquidambar orientalis	Altingiaceae	NO	10' to 12'	15' to 20'	[5]	FAST	**N**
SHADE	MEDIUM	TYPE 1	American Hornbeam	Carpinus caroliniana	Betulaceae	YES	20' to 30'	20' to 30'	41-60%	SLOW	**N**
SHADE	MEDIUM	TYPE 1	Bluejack Oak	Quercus incana	Fagaceae	YES	25' to 35'	25' to 50'	[5]	MODERATE	**N**
SHADE	MEDIUM	TYPE 1	Florida Maple	Acer floridanum	Sapindaceae	YES	25' to 40'	20' to 40'	41-60%	MODERATE	**N**
SHADE	MEDIUM	TYPE 1	Myrtle oak	Quercus myrtifolia	Fagaceae	YES	35' to 40'	35' to 40'	81-100%	MODERATE	**N**
SHADE	MEDIUM	TYPE 1	Red Bay	Persea borbonia	Lauraceae	YES	30' to 50'	30' to 50'	21-40%	MODERATE	**N**
SHADE	MEDIUM	TYPE 1	Swamp Bay	Persea palustris	Lauraceae	YES	25' to 30'	25' to 35'	[5]	MODERATE	**N**
SHADE	MEDIUM	TYPE 1	Turkey Oak	Quercus laevis	Fagaceae	YES	25' to 30'	30' to 40'	41-60%	MODERATE	**N**
SHADE	LARGE	TYPE 1	(American) Sycamore	Platanus occidentalis	Platanaceae	YES	50' to 70'	75' to 90'	41-60%	FAST	**N**
SHADE	LARGE	TYPE 1	American Elm	Ulmus americana	Ulmaceae	YES	50' to 70'	70' to 90'	81-100%	FAST	**N**
SHADE	LARGE	TYPE 1	Black Cherry	Prunus serotina	Rosaceae	YES	35' to 50'	60' to 90'	41-60%	FAST	**N**
SHADE	LARGE	TYPE 1	Black Gum/Tupelo	Nyssa sylvatica	Cornaceae	YES	25' to 35'	65' to 75'	61-80%	MODERATE	**N**
SHADE	LARGE	TYPE 1	Bluff Oak	Quercus austrina	Fagaceae	YES	35' to 50'	40' to 60'	61-80%	NOT AVAIL	**N**
SHADE	LARGE	TYPE 1	Camphor	Cinnamomum camphora	Lauraceae	NO	50' to 70'	40' to 50'	<21%	FAST	**N**
SHADE	LARGE	TYPE 1	Common Hackberry	Celtis occidentalis	Celtidaceae	YES	40' to 50'	45' to 80'	[5]	FAST	N
SHADE	LARGE	TYPE 1	Common Persimmon	Diospyros virginiana	Ebenaceae	YES	20' to 35'	40' to 60'	41-60%	MODERATE	**N**
SHADE	LARGE	TYPE 1	Durand Oak	Quercus durandii (sinuata)	Fagaceae	YES	40' to 60'	50' to 90'	61-80%	NOT AVAIL	**N**
SHADE	LARGE	TYPE 1	Green Ash	Fraxinus pennsylvanica	Oleaceae	YES	25' to 30'	30' to 45'	61-80%	MODERATE	**N**
SHADE	LARGE	TYPE 1	Laurel Oak	Quercus laurifolia	Fagaceae	YES	35' to 45'	60' to 70'	61-80%	FAST	**N**
SHADE	LARGE	TYPE 1	Pecan	Carya illinoensis	Juglandaceae	NO	50' to 70'	70' to 100'	41-60%	MODERATE	**N**
SHADE	LARGE	TYPE 1	Pignut Hickory	Carya glabra	Juglandaceae	YES	30' to 40'	50' to 65'	81-100%	MODERATE	**N**
SHADE	LARGE	TYPE 1	Pop Ash	Fraxinus caroliniana	Oleaceae	YES	40' to 60'	50' to 80'	[5]	FAST	**N**
SHADE	LARGE	TYPE 1	Pumpkin Ash	Fraxinus tomentosa (sp. "profunda")	Oleaceae	YES	45' to 50'	60' to 70'	61-80%	FAST	**N**
SHADE	LARGE	TYPE 1	Red Maple	Acer rubrum	Sapindaceae	YES	25' to 35'	60' to 75'	61-80%	FAST	**N**
SHADE	LARGE	TYPE 1	Sand Live Oak	Quercus geminata	Fagaceae	YES	45' to 60'	30' to 50'	81-100%	MODERATE	**N**
SHADE	LARGE	TYPE 1	Shumard's Oak	Quercus shumardii	Fagaceae	YES	40' to 50'	55' to 80'	41-60%	MODERATE	**N**
SHADE	LARGE	TYPE 1	Silver Maple	Acer saccharinum	Sapindaceae	YES	40' to 60'	60' to 80'	<21%	FAST	**N**
SHADE	LARGE	TYPE 1	Southern Live Oak	Quercus virginiana	Fagaceae	YES	60' to 120'	60' to 80'	81-100%	MODERATE	**N**
SHADE	LARGE	TYPE 1	Southern Red Oak	Quercus falcata	Fagaceae	YES	60' to 70'	60' to 80'	41-60%	MODERATE	**N**
SHADE	LARGE	TYPE 1	Strangler Fig	Ficus aurea	Moraceae	YES	50' to 70'	50' to 60'	41-60%	MODERATE	**N**
SHADE	LARGE	TYPE 1	Sugarberry	Celtis laevigata	Celtidaceae	YES	50' to 60'	50' to 70'	41-60%	MODERATE	**N**
SHADE	LARGE	TYPE 1	Swamp Chestnut Oak	Quercus michauxii	Fagaceae	YES	40' to 60'	60' to 80'	61-80%	NOT AVAIL	**N**
SHADE	LARGE	TYPE 1	Swamp Tupelo	Nyssa sylvatica var. biflora	Cornaceae	YES	65' to 70'	80' to 100'	61-80%	SLOW	**N**
SHADE	LARGE	TYPE 1	Sweetgum	Liquidambar styraciflua	Altingiaceae	YES	35' to 50'	60' to 75'	61-80%	MODERATE	**N**
SHADE	LARGE	TYPE 1	Water Hickory	Carya aquatica	Juglandaceae	YES	25' to 40'	60' to 70'	61-80%	SLOW	**N**
SHADE	LARGE	TYPE 1	Water Oak	Quercus nigra	Fagaceae	YES	60' to 70'	50' to 60'	41-60%	FAST	**N**
SHADE	LARGE	TYPE 1	Water Tupelo	Nyssa aquatica	Cornaceae	YES	25' to 35'	75' to 100'	61-80%	SLOW	**N**
SHADE	LARGE	TYPE 1	White Ash	Fraxinus americana	Oleaceae	YES	10' to 15'	35' to 60'	61-80%	MODERATE	**N**
SHADE	LARGE	TYPE 1	Willow Oak	Quercus phellos	Fagaceae	YES	40' to 50'	60' to 75'	<21%	FAST	**N**
CONIFEROUS	MEDIUM	TYPE 2	American Hophornbeam	Ostrya virginiana	Betulaceae	YES	15' to 25'	25' to 40'	<21%	SLOW	**N**
CONIFEROUS	MEDIUM	TYPE 2	Podocarpus (Yew Plum)	Podocarpus macrophyllus	Podocarpaceae	NO	20' to 25'	30' to 40'	81-100%	SLOW	**N**
CONIFEROUS	MEDIUM	TYPE 2	Red Cedar	Juniperus virginiana	Cupressaceae	YES	20' to 30'	30' to 45'	81-100%	FAST	**N**
CONIFEROUS	MEDIUM	TYPE 2	Sand Pine	Pinus clausa	Pinaceae	YES	15' to 25'	25' to 40'	41-60%	SLOW	**N**
CONIFEROUS	LARGE	TYPE 2	Baldcypress	Taxodium distichum	Cupressaceae	YES	25' to 35'	60' to 80'	81-100%	FAST	**N**
CONIFEROUS	LARGE	TYPE 2	Broadleaf Podocarpus	Podocarpus nagi	Podocarpaceae	NO	15' to 25'	30' to 50'	81-100%	MODERATE	**N**
CONIFEROUS	LARGE	TYPE 2	Chinese Juniper	Juniperus chinensis	Cupressaceae	NO	15' to 25'	40' to 50'	[5]	MODERATE	**N**
CONIFEROUS	LARGE	TYPE 2	Loblolly Pine	Pinus taeda	Pinaceae	YES	30' to 35'	50' to 80'	61-80%	FAST	**N**
CONIFEROUS	LARGE	TYPE 2	Loblolly-Bay	Gordonia lasianthus	Theaceae	YES	25' to 35'	50' to 75'	81-100%	MODERATE	**N**
CONIFEROUS	LARGE	TYPE 2	Longleaf Pine	Pinus palustris	Pinaceae	YES	30' to 40'	60' to 80'	61-80%	FAST	**N**
CONIFEROUS	LARGE	TYPE 2	Pondcypress	Taxodium ascendens	Cupressaceae	YES	10' to 15'	50' to 60'	81-100%	SLOW	**N**
CONIFEROUS	LARGE	TYPE 2	Slash Pine	Pinus elliottii var densa	Pinaceae	YES	35' to 50'	75' to 100'	61-80%	FAST	**N**
ORNAMENTAL	SMALL	TYPE 3	American Elder	Sambucus nigra (subsp. Canadensis)	Adoxaceae	YES	6' to 10'	8' to 12'	21-40%	MODERATE	**Y**
ORNAMENTAL	SMALL	TYPE 3	Blackhaw (Walter's Vibernum)	Viburnum obovatum	Caprifoliaceae	YES	6' to 10'	8' to 25'	61-80%	MODERATE	**N**
ORNAMENTAL	SMALL	TYPE 3	Burford Holly (Chinese Holly)	Ilex cornuta 'Burfordii'	Aquifoliaceae	NO	15' to 25'	15' to 25'	81-100%	MODERATE	**Y**

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TREE TYPE / SIZE / FORM			TREE DENDROLOGY				TYPICAL CHARACTERISTICS				
Tree Type [1]	Tree Size [2]	FL Grades & Standards Tree Type-Form [3]	Common Name	Scientific Name	Plant Family	Florida Native	Mature Crown Spread	Mature Height	Species Rating [4,5]	Growth Rate [6]	POWER LINE TREE? (Y/N)
ORNAMENTAL	SMALL	TYPE 3	Chickasaw Plum	Prunus angustifolia	Rosaceae	YES	15' to 20'	12 to 20'	61-80%	MODERATE	**Y**
ORNAMENTAL	SMALL	TYPE 3	Chinese Fringetree	Chionanthus retusus	Oleaceae	NO	10' to 15'	15' to 20'	41-60%	SLOW	**N**
ORNAMENTAL	SMALL	TYPE 3	Crapemyrtle	Lagerstroemia indica	Lythraceae	NO	15' to 25'	10' to 30'	81-100%	MODERATE	**Y**
ORNAMENTAL	SMALL	TYPE 3	Devilwood	Osmanthus americanus	Oleaceae	YES	10' to 15'	15' to 25'	[5]	MODERATE	**N**
ORNAMENTAL	SMALL	TYPE 3	Flatwoods Plum	Prunus umbellata	Rosaceae	YES	12' to 20'	12' to 20'	41-60%	MODERATE	**N**
ORNAMENTAL	SMALL	TYPE 3	Florida Privet	Forestiera segregata	Oleaceae	YES	5 to 10'	10' to 15'	61-80%	MODERATE	**Y**
ORNAMENTAL	SMALL	TYPE 3	Fringetree	Chionanthus virginicus	Oleaceae	YES	10' to 15'	12 to 20'	41-60%	SLOW	**Y**
ORNAMENTAL	SMALL	TYPE 3	Jerusalem-Thorn	Parkinsonia aculeata	Fabaceae	NO	20' to 25'	15' to 20'	41-60%	FAST	**N**
ORNAMENTAL	SMALL	TYPE 3	Lemon Bottlebrush	Callistemon citrinus	Myrtaceae	NO	10' to 15'	10' to 15'	[5]	MODERATE	**Y**
ORNAMENTAL	SMALL	TYPE 3	Ligustrum (Japanese Privet)	Ligustrum japonicum	Oleaceae	NO	15' to 25'	8' to 12'	81-100%	MODERATE	**Y**
ORNAMENTAL	SMALL	TYPE 3	Loquat	Eriobotrya japonica	Rosaceae	NO	20'	25'	61-80%	MODERATE	**Y**
ORNAMENTAL	SMALL	TYPE 3	Possumhaw	Ilex decidua	Aquifoliaceae	YES	10' to 15'	10' to 15'	[5]	SLOW	**Y**
ORNAMENTAL	SMALL	TYPE 3	Purple Tabebuia	Tabebuia impetiginosa	Bignoniaceae	NO	10' to 15'	12' to 18'	[5]	SLOW	**N**
ORNAMENTAL	SMALL	TYPE 3	Red Buckeye	Aesculus pavia	Sapindaceae	YES	15' to 25'	15' to 20'	21-40%	MODERATE	**Y**
ORNAMENTAL	SMALL	TYPE 3	Southern Wax Myrtle	Myrica cerifera	Myricaceae	YES	20' to 25'	15' to 25'	[5]	FAST	**Y**
ORNAMENTAL	SMALL	TYPE 3	Starburst	Clerodendrum Quadriloculare	Lamiaceae	NO	10'	15'	[5]	FAST	**Y**
ORNAMENTAL	SMALL	TYPE 3	Swamp ("Stiff") Dogwood	Cornus foemina	Cornaceae	YES	10' to 15'	10' to 25'	[5]	MODERATE	**Y**
ORNAMENTAL	SMALL	TYPE 3	Sweet Acacia	Acacia farnesiana	Fabaceae	YES	15' to 25'	15' to 25'	41-60%	SLOW	**Y**
ORNAMENTAL	SMALL	TYPE 3	Upright Bottlebrush	Callistemon rigidus	Myrtaceae	NO	8' to 12'	8' to 12'	41-60%	FAST	**Y**
ORNAMENTAL	SMALL	TYPE 3	Weeping Bottlebrush	Callistemon viminalis [7]	Myrtaceae	NO	15' to 20'	15' to 20'	41-60%	MODERATE	**Y**
ORNAMENTAL	SMALL	TYPE 3	White Geiger (Wild Olive)	Cordia boissieri	Boraginaceae	NO	10' to 15'	15' to 20'	41-60%	SLOW	**Y**
ORNAMENTAL	SMALL	TYPE 3	Yaupon Holly	Ilex vomitoria	Aquifoliaceae	YES	15' to 20'	15' to 20'	81-100%	MODERATE	**Y**
ORNAMENTAL	MEDIUM	TYPE 3	'Nellie R. Stevens' Holly	Ilex x 'Nellie R. Stevens'	Aquifoliaceae	YES	10' to 15'	20' to 30'	81-100%	MODERATE	**N**
ORNAMENTAL	MEDIUM	TYPE 3	Black Mangrove	Avicennia germinans	Avicenniaceae	YES	NOT AVAIL	20' to 40'	41-60%	NOT AVAIL	**N**
ORNAMENTAL	MEDIUM	TYPE 3	Coastal Plain Willow	Salix caroliniana	Salicaceae	YES	25' to 35'	25' to 35'	61-80%	FAST	**N**
ORNAMENTAL	MEDIUM	TYPE 2	Dahoon Holly	Ilex cassine	Aquifoliaceae	YES	8' to 12'	20' to 30'	61-80%	MODERATE	**N**
ORNAMENTAL	MEDIUM	TYPE 2	'East Palatka' Holly	Ilex x attenuata	Aquifoliaceae	YES	10' to 15'	30' to 45'	21-40%	MODERATE	**N**
ORNAMENTAL	MEDIUM	TYPE 2	Eastern Redbud	Cercis canadensis	Fabaceae	YES	15' to 25'	20' to 30'	21-40%	FAST	**N**
ORNAMENTAL	MEDIUM	TYPE 3	Flowering Dogwood	Cornus florida	Cornaceae	YES	25' to 30'	20' to 30'	21-40%	MODERATE	**N**
ORNAMENTAL	MEDIUM	TYPE 3	Golden Trumpet Tree	Tabebuia chrysotricha	Bignoniaceae	NO	25' to 35'	25' to 35'	41-60%	FAST	**N**
ORNAMENTAL	MEDIUM	TYPE 1	Jacaranda	Jacaranda mimosifolia	Fabaceae	NO	45' to 60'	25' to 40'	41-60%	FAST	**N**
ORNAMENTAL	MEDIUM	TYPE 3	Red Mangrove	Rhizophora mangle	Rhizophoraceae	YES	15' to 25'	15' to 25'	81-100%	MODERATE	**N**
ORNAMENTAL	MEDIUM	TYPE 3	Seagrape	Coccoloba uvifera	Polygonaceae	YES	20' to 30'	25' to 30'	61-80%	MODERATE	**N**
ORNAMENTAL	MEDIUM	TYPE 3	Simpson Stopper	Myrcianthes fragrans	Myrtaceae	YES	15' to 20'	15' to 20'	81-100%	SLOW	**N**
ORNAMENTAL	MEDIUM	TYPE 3	Witch-Hazel	Hamamelis virginiana	Hamamelidaceae	YES	15' to 25'	20' to 30'	[5]	SLOW	**N**
ORNAMENTAL	LARGE	TYPE 2	American Holly	Ilex opaca	Aquifoliaceae	YES	15' to 25'	35' to 50'	61-80%	SLOW	**N**
ORNAMENTAL	LARGE	TYPE 1	'Bosque' Chinese Elm	Ulmus parvifolia	Ulmaceae	NO	35' to 50'	35' to 45'	41-60%	MODERATE	**N**
ORNAMENTAL	LARGE	TYPE 1	'Drake' Chinese Elm	Ulmus parvifolia 'Drake'	Ulmaceae	NO	35' to 50'	35' to 45'	41-60%	MODERATE	**N**
ORNAMENTAL	LARGE	TYPE 2	Japanese Blueberry	Eleocarpus decipiens	Caprifoliaceae	NO	20' to 40'	40' to 60'	81-100%	SLOW	**N**
ORNAMENTAL	LARGE	TYPE 2	Olive	Olea europaea	Oleaceae	NO	35' to 50'	25' to 50'	61-80%	SLOW	**N**
ORNAMENTAL	LARGE	TYPE 2	Red Mulberry	Morus rubra	Moraceae	YES	35' to 50'	50' to 75'	41-60%	FAST	**N**
ORNAMENTAL	LARGE	TYPE 1	Southern Magnolia	Magnolia grandiflora	Magnoliaceae	YES	30' to 40'	60' to 80'	61-80%	MODERATE	**N**
ORNAMENTAL	LARGE	TYPE 1	Sweetbay Magnolia	Magnolia virginiana	Magnoliaceae	YES	15' to 25'	40' to 50'	61-80%	MODERATE	**N**
ORNAMENTAL	LARGE	TYPE 1	White Mangrove	Laguncularia racemosa	Combretaceae	YES	30' to 40'	30' to 50'	81-100%	MODERATE	**N**
ORNAMENTAL	LARGE	TYPE 1	Winged Elm	Ulmus alata	Ulmaceae	YES	30' to 40'	45' to 70'	61-80%	FAST	**N**
PALM	SMALL	PALM	Chinese Windmill Palm	Trachycarpus fortunei	Arecaceae	NO	6' to 10'	10' to 20'	61-80%	SLOW	**Y**
PALM	SMALL	PALM	Cliff Date Palm	Phoenix rupicola	Arecaceae	NO	20'	25'	[5]	FAST	**Y**
PALM	SMALL	PALM	European Fan Palm	Chamaerops humilis	Arecaceae	NO	20'	15'	81-100%	SLOW	**Y**
PALM	SMALL	PALM	Pindo Palm	Butia capitata	Arecaceae	NO	10' to 15'	15' to 25'	61-80%	SLOW	**Y**
PALM	SMALL	PALM	Pygmy Date Palm	Phoenix roebellenii	Arecaceae	NO	7'	12'	61-80%	SLOW	**Y**
PALM	MEDIUM	PALM	Paurotis Palm	Acoelorraphe wrightii	Arecaceae	YES	12'	30'	61-80%	SLOW	**N**
PALM	MEDIUM	PALM	Puerto Rican Hat Palm	Sabal causarium	Arecaceae	NO	15'	45'	[5]	SLOW	**N**
PALM	MEDIUM	PALM	Senegal Date Palm	Phoenix reclinata [7]	Arecaceae	NO	40' to 50'	30' to 35'	61-80%	MODERATE	**N**
PALM	MEDIUM	PALM	Wild Date Palm	Phoenix sylvestris	Arecaceae	NO	20'	40'	81-100%	FAST	**N**

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TREE TYPE / SIZE / FORM			TREE DENDROLOGY				TYPICAL CHARACTERISTICS				POWER LINE TREE? (Y/N)
Tree Type [1]	Tree Size [2]	FL Grades & Standards Tree Type-Form [3]	Common Name	Scientific Name	Plant Family	Florida Native	Mature Crown Spread	Mature Height	Species Rating [4,5]	Growth Rate [6]	
PALM	LARGE	PALM	Bismarck Palm	Bismarkia nobilis	Arecaceae	NO	12' to 16'	30' to 60'	[5]	SLOW	**N**
PALM	LARGE	PALM	Cabbage Palm	Sabal palmetto	Arecaceae	YES	10' to 15'	40' to 50'	81-100%	SLOW	**N**
PALM	LARGE	PALM	Canary Island Date Palm	Phoenix canariensis	Arecaceae	NO	20' to 25'	40' to 60'	81-100%	SLOW	**N**
PALM	LARGE	PALM	Chinese Fan Palm	Livistona chinensis	Arecaceae	NO	10' to 12'	30' to 50'	81-100%	MODERATE	**N**
PALM	LARGE	PALM	Date Palm	Phoenix dactylifera	Arecaceae	NO	12 to 15'	50' to 80'	81-100%	MODERATE	**N**
PALM	LARGE	PALM	Ribbon Fan Palm	Livistona decora (deciphens)	Arecaceae	NO	15'	30'	81-100%	SLOW	**N**
PALM	LARGE	PALM	Washington (Mexican Fan) Palm	Washingtonia robusta [7]	Arecaceae	NO	10' to 15'	60' to 90'	61-80%	FAST	**N**

Notes:

[1] Typology: Shade; Coniferous; Ornamental; Palm

[2] Small [0-20' avg height]; Medium [20-40' avg height]; Large [40' or higher avg height]. Average ["avg"] height dimension is at time of full growth/maturity.

[3] Source: FL Dept of Agricultural & Consumer Services, Florida Grades and Standards for Nursery Plants 2015. Any species not listed above must obtain approval of natural resources coordinator and will adhere to Florida Grades & Standards criteria for use of species not listed and determination of Matrix Type. Type 1: Tall & Wide; Type 2: Tall & Narrow; Type 3: Short/Wide & Multi-Trunked; Palm.

[4] Source: Tree Species Ratings for Florida, January 2016, International Society of Arboriculture, FL Chapter. Rating % assigned to a specific tree upon evaluation and determination of its existing condition. Refer to sec. 27-285.4.1 for Rating % and tree condition equivalency factors. The higher the Rating % = the higher suitability in Tampa's urban environment (assuming proper placement & general maintenance).

[5] Species Rating not available from Florida ISA. Use Condition Rating factor as Species Rating factor in Mitigation calculation for grand trees.

[6] Growth Rate: refers to the vertical increase in growth. Slow: ≤ 12" per year; Moderate: 13"-24" per year; Fast: ≥ 25" per year. (Source: Dirr, M., Manual of Woody Landscape Plants, pub. Jan. 1990)

[7] Species listed as Category II on the 2017 Florida Exotic Pest Plant Council List of Exotic Species. Specie may be planted and/or retained, but no credit shall be factored into mitigation formula. See also sec. 27-284.1.2(2).

Reference : "Y" means "Yes," "N" means "No," "NOT AVAIL" means "not available at time of adoption of this document."