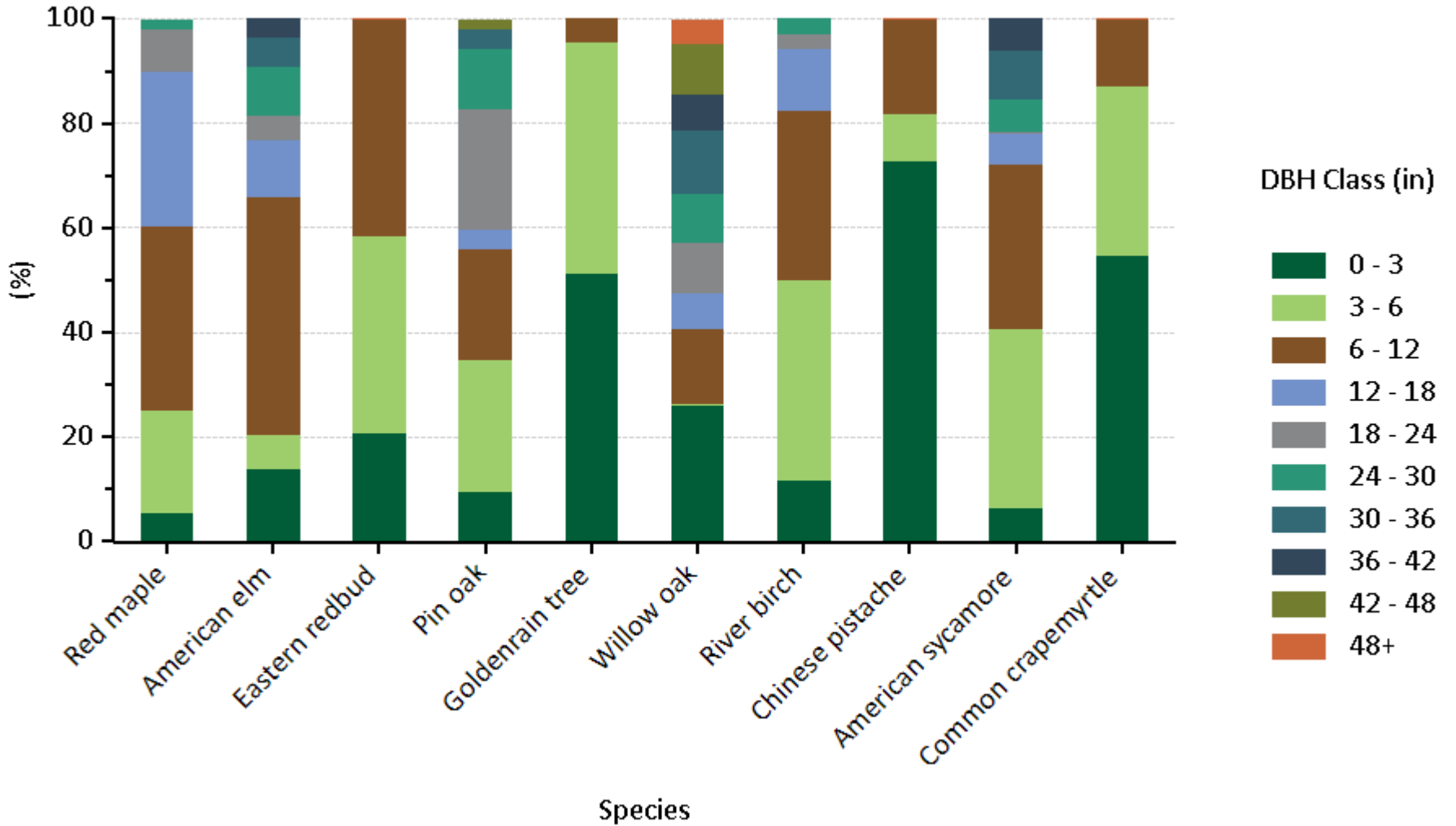


Species Distribution by DBH Class

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021



Species Distribution by DBH Class

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021



Table1. Top 10 most populated species in the project area

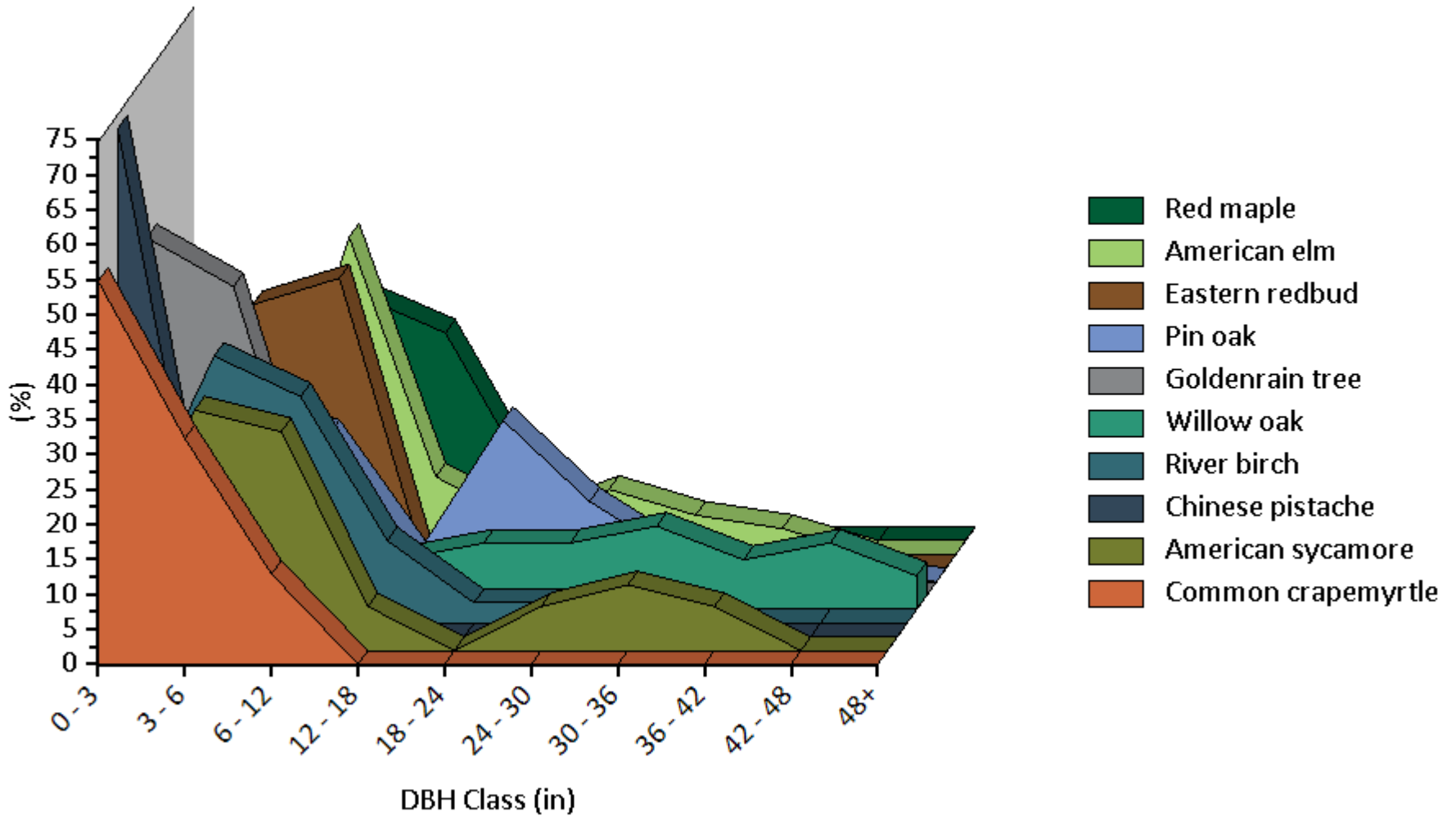
Species Name	DBH Class (in)									
	0 - 3 (%)	3 - 6 (%)	6 - 12 (%)	12 - 18 (%)	18 - 24 (%)	24 - 30 (%)	30 - 36 (%)	36 - 42 (%)	42 - 48 (%)	48+ (%)
Red maple	5.4	19.8	35.1	29.7	8.1	1.8	0.0	0.0	0.0	0.0
American elm	13.9	6.5	45.4	11.1	4.6	9.3	5.6	3.7	0.0	0.0
Eastern redbud	20.8	37.7	41.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pin oak	9.6	25.0	21.2	3.8	23.1	11.5	3.8	0.0	1.9	0.0
Goldenrain tree	51.2	44.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Willow oak	26.2	0.0	14.3	7.1	9.5	9.5	11.9	7.1	9.5	4.8
River birch	11.8	38.2	32.4	11.8	2.9	2.9	0.0	0.0	0.0	0.0
Chinese pistache	72.7	9.1	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
American sycamore	6.3	34.4	31.3	6.3	0.0	6.3	9.4	6.3	0.0	0.0
Common crapemyrtle	54.8	32.3	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Species Distribution by DBH Class

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021

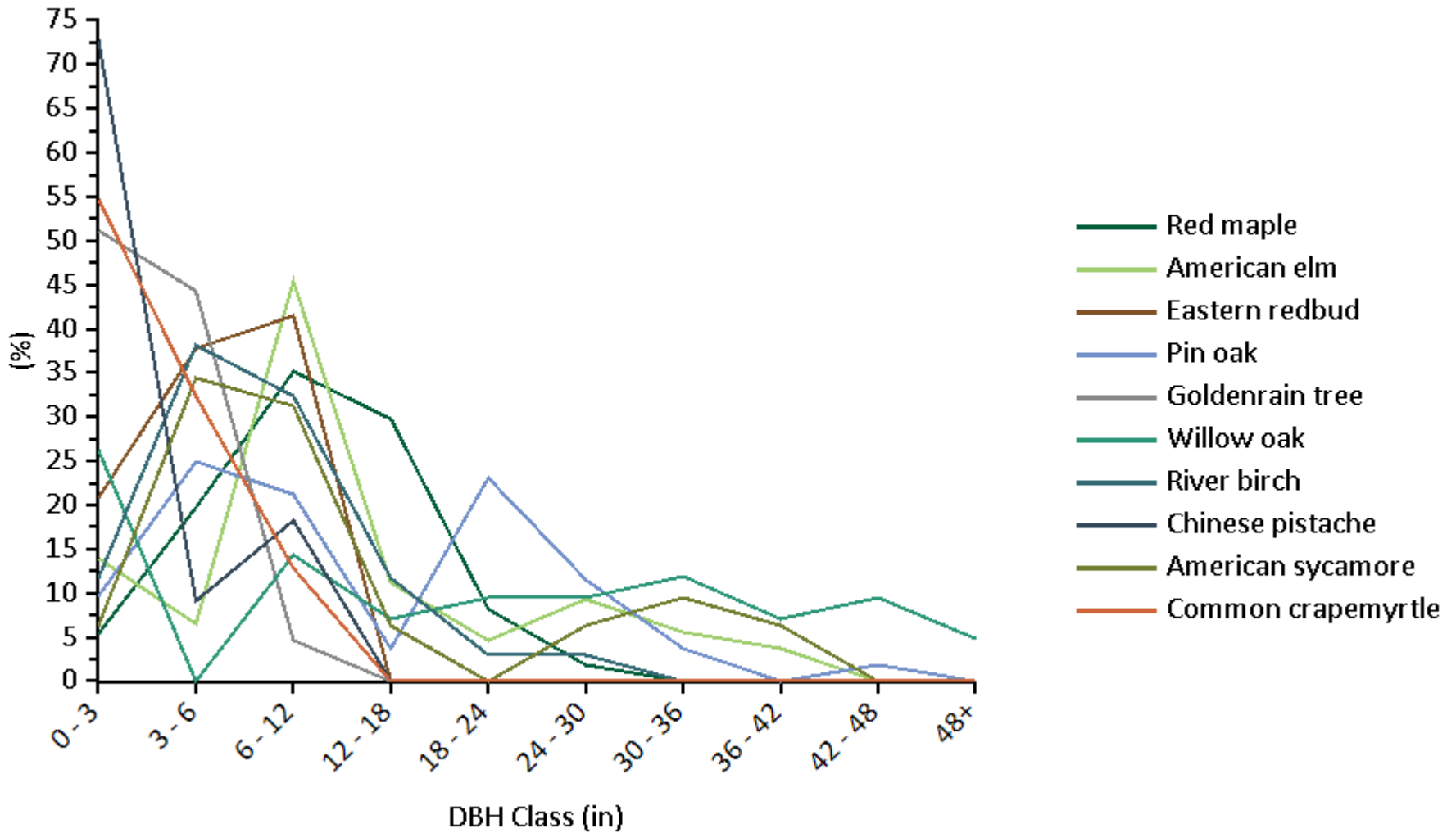


Species Distribution by DBH Class

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021

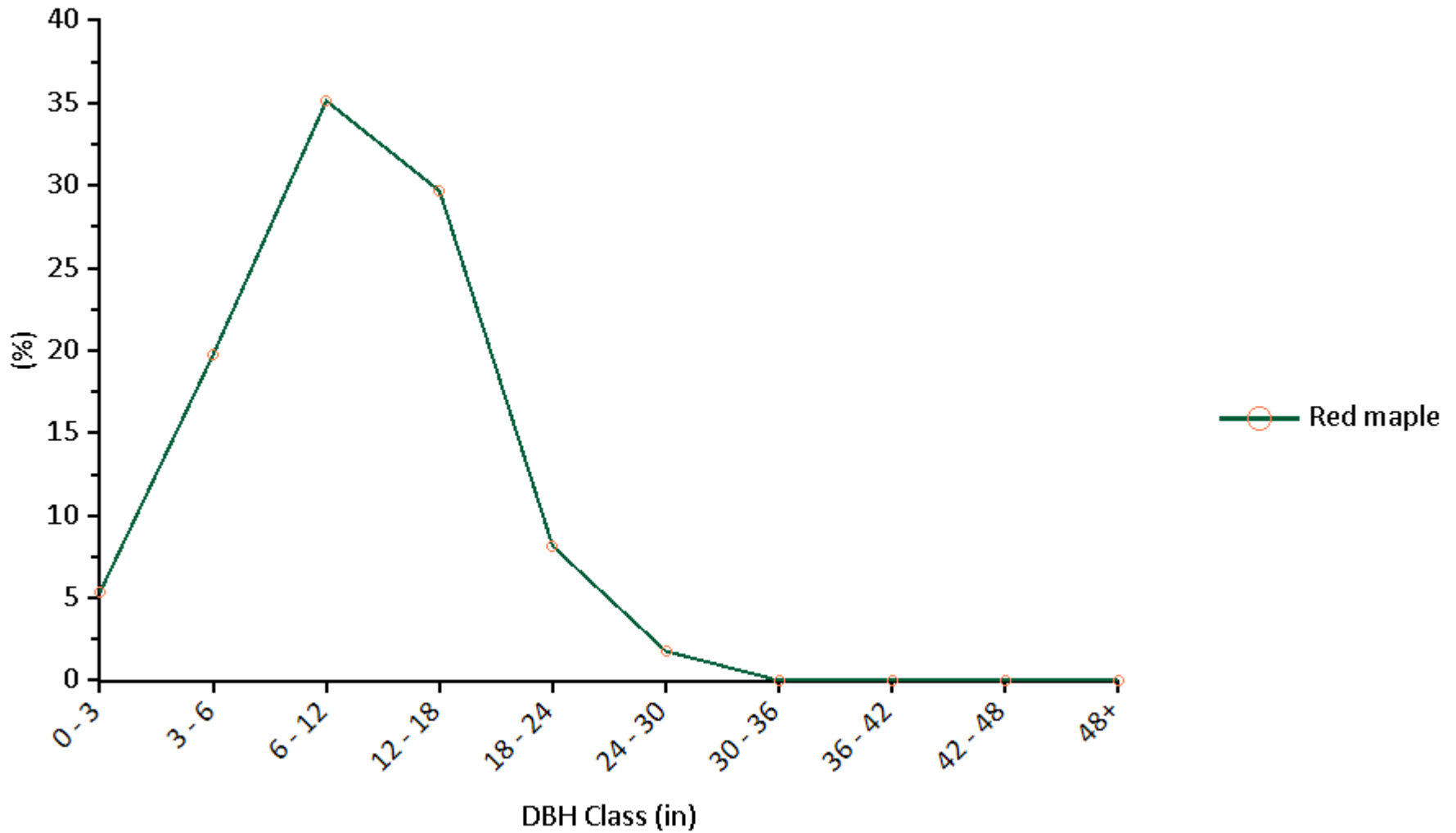


Species Distribution by DBH Class

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021

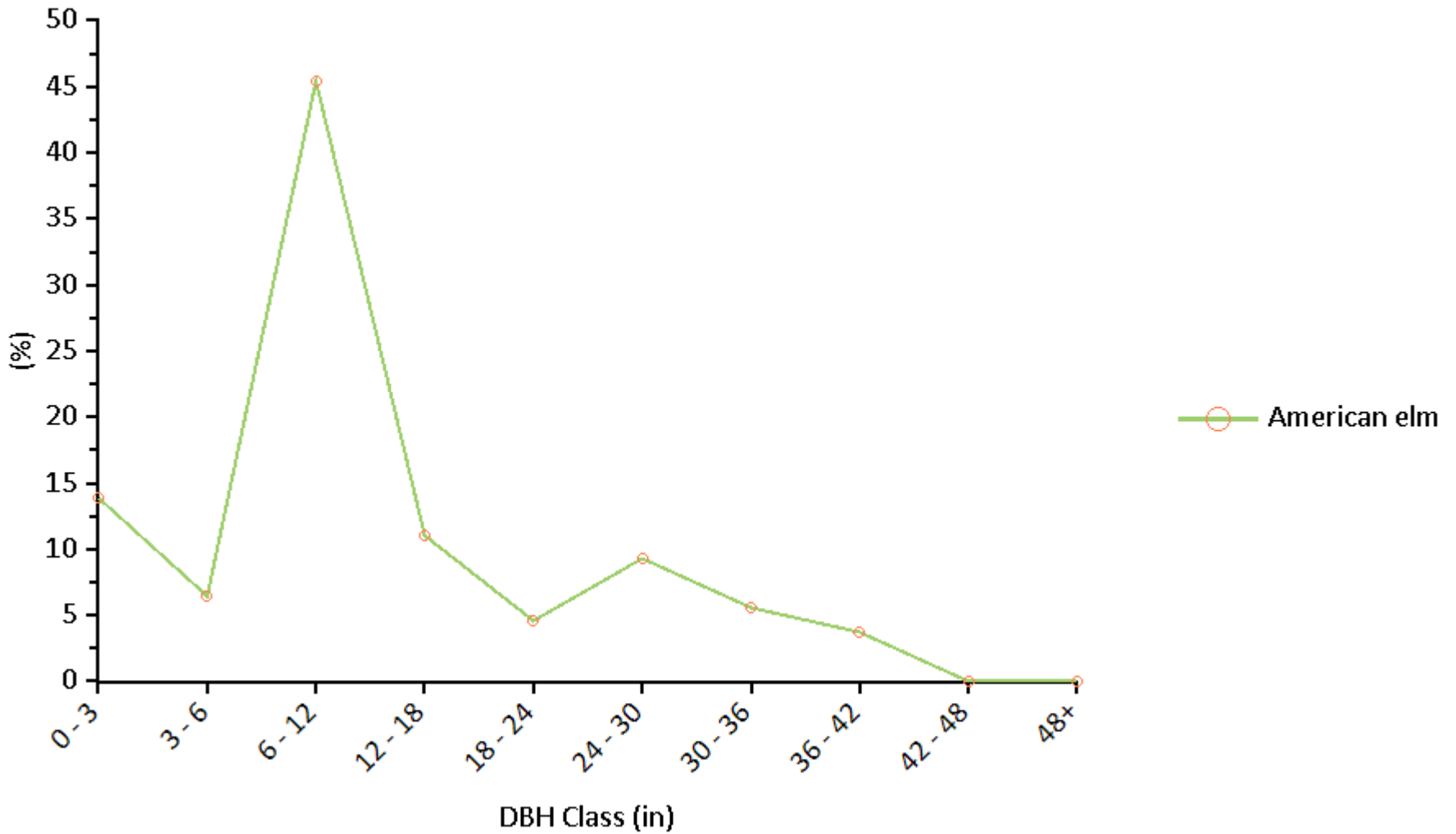


Species Distribution by DBH Class

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021

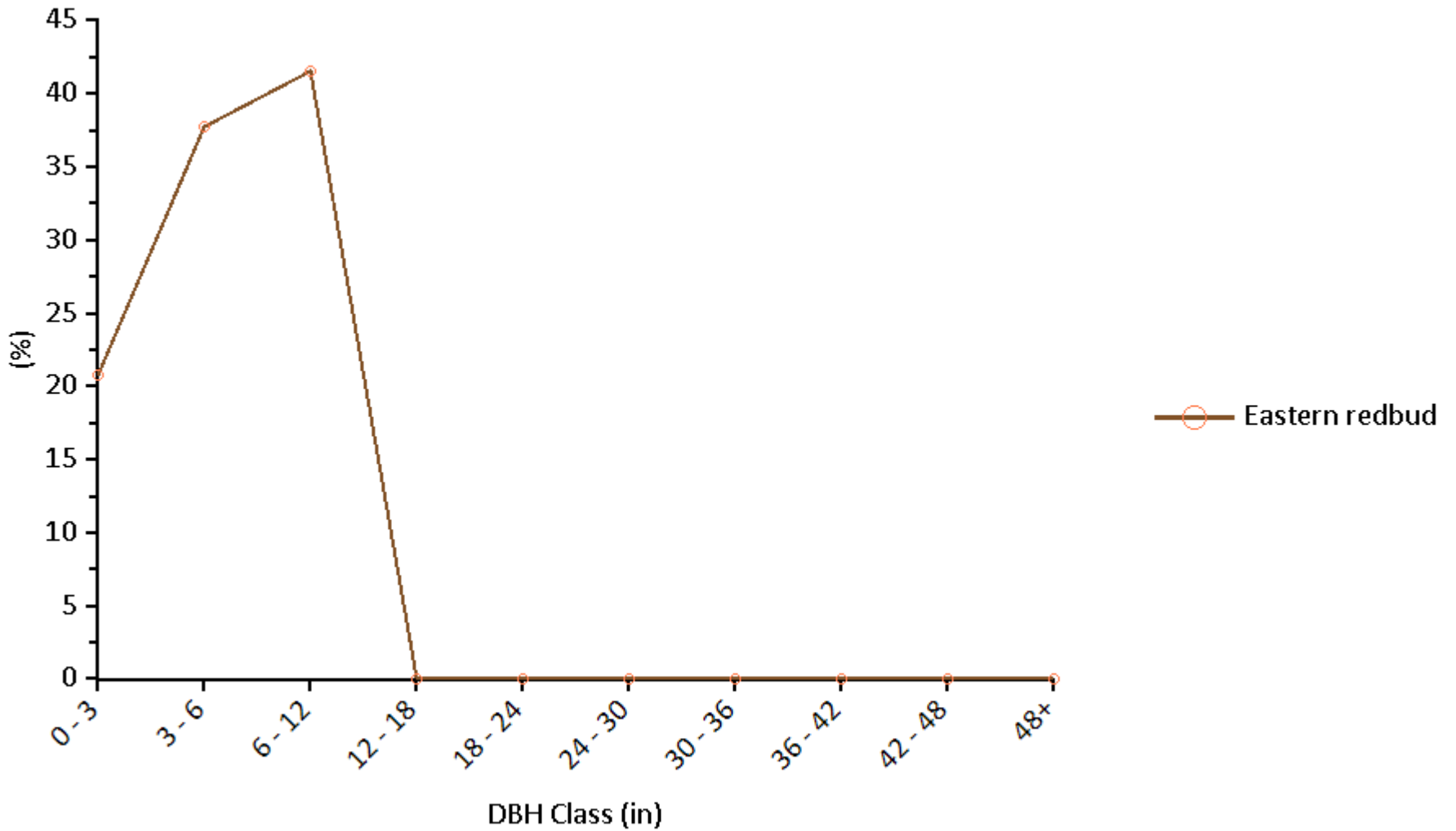


Species Distribution by DBH Class

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021

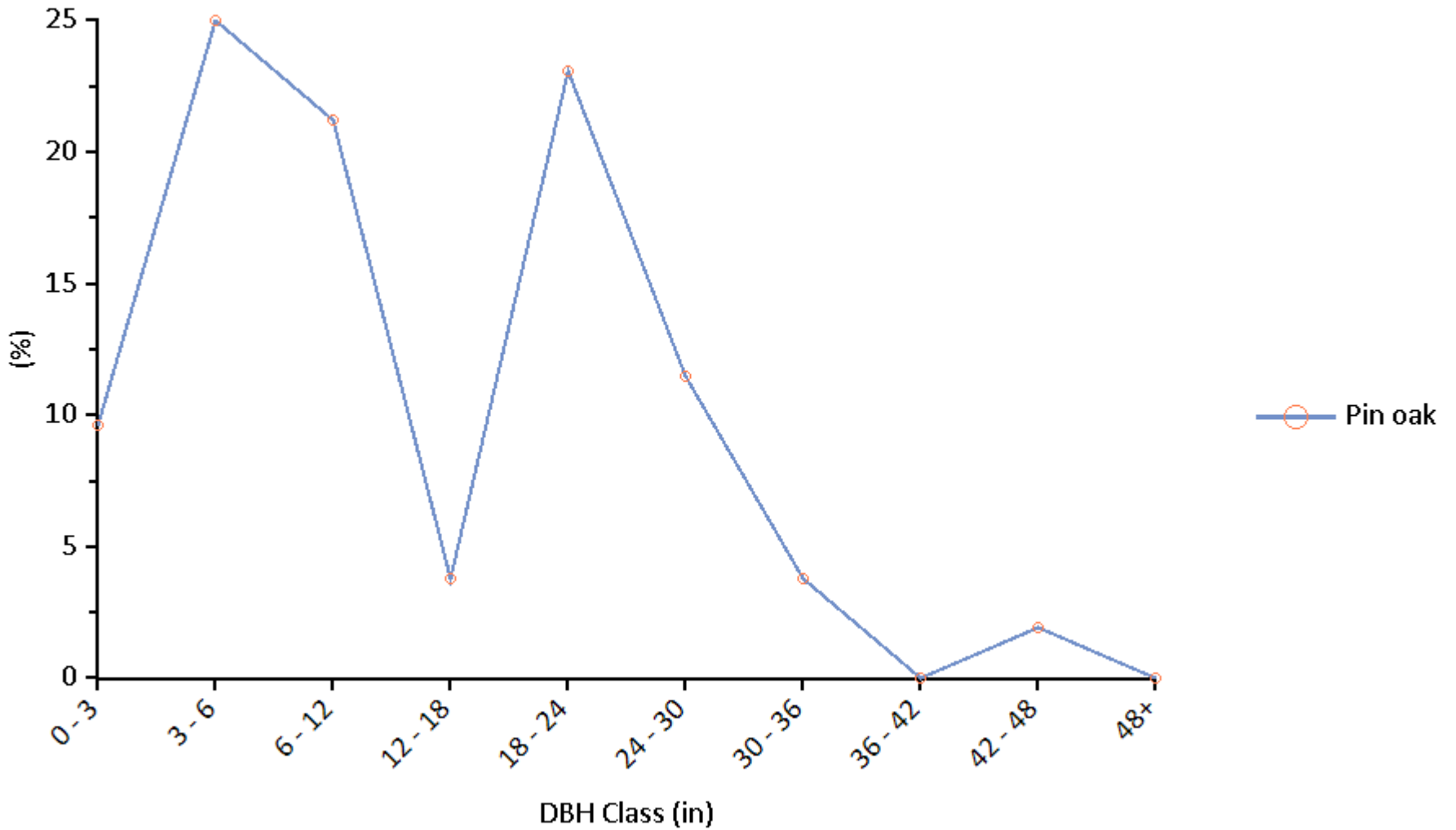


Species Distribution by DBH Class

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021

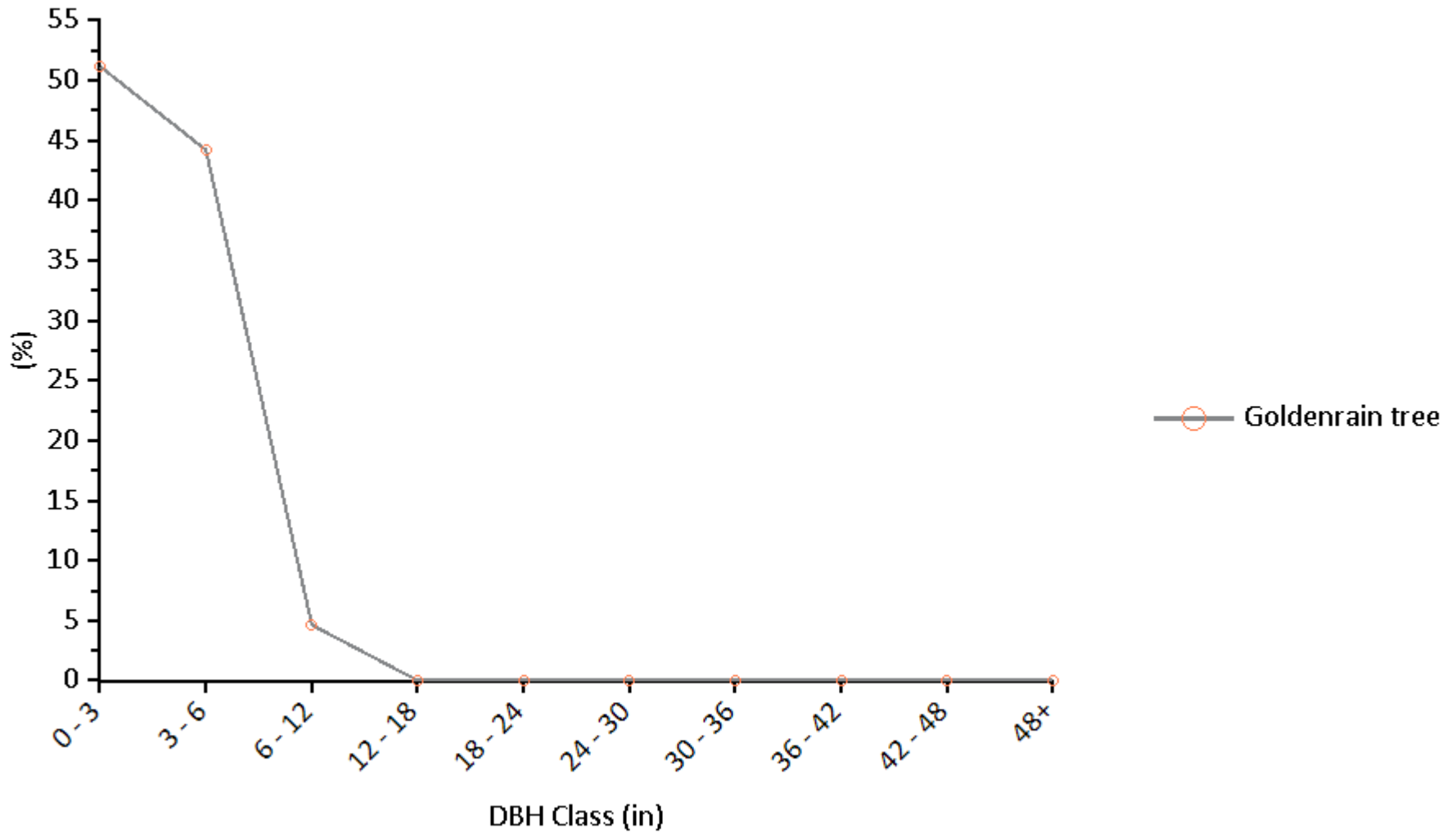


Species Distribution by DBH Class

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021

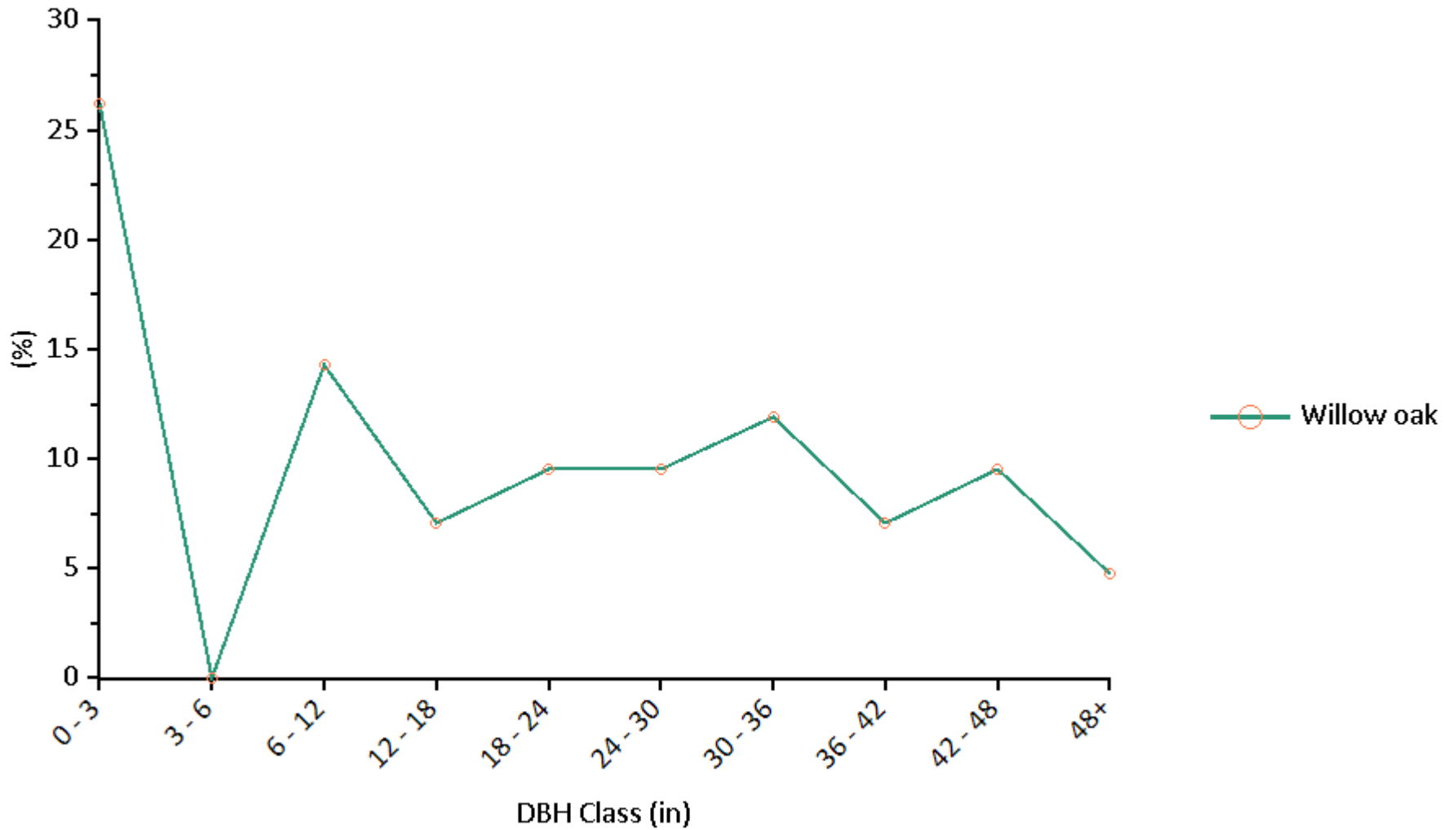


Species Distribution by DBH Class

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021

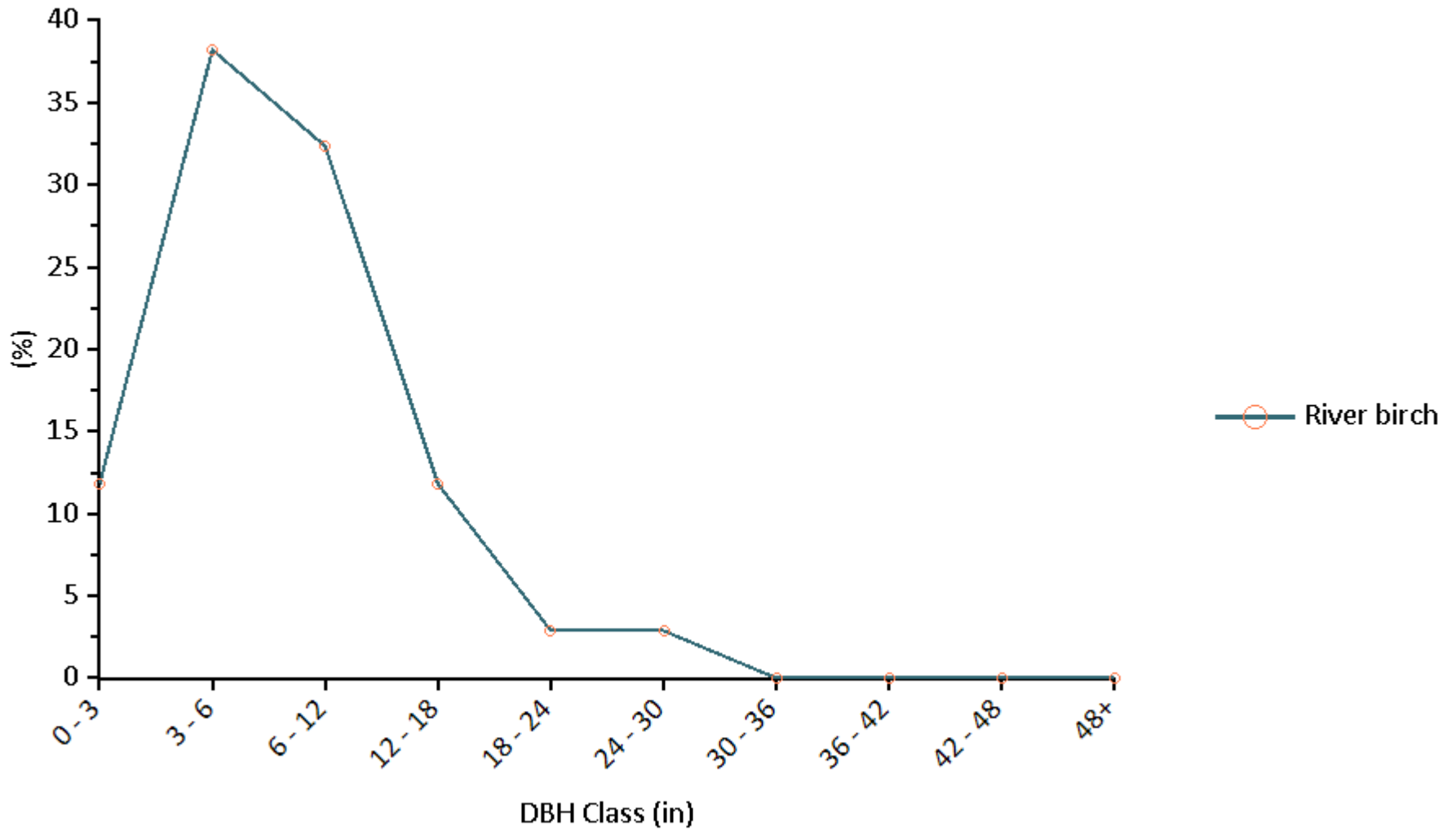


Species Distribution by DBH Class

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021

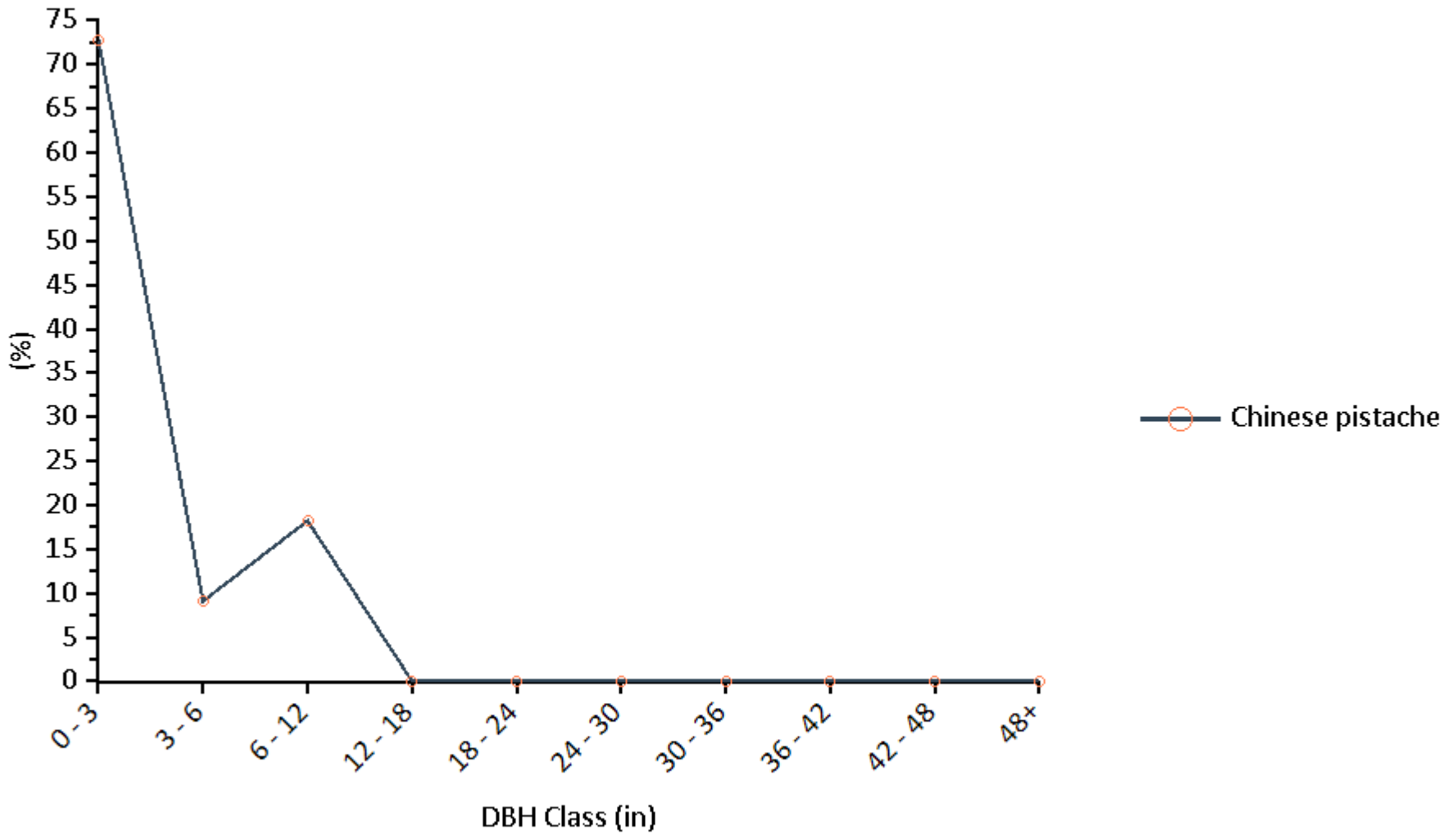


Species Distribution by DBH Class

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021

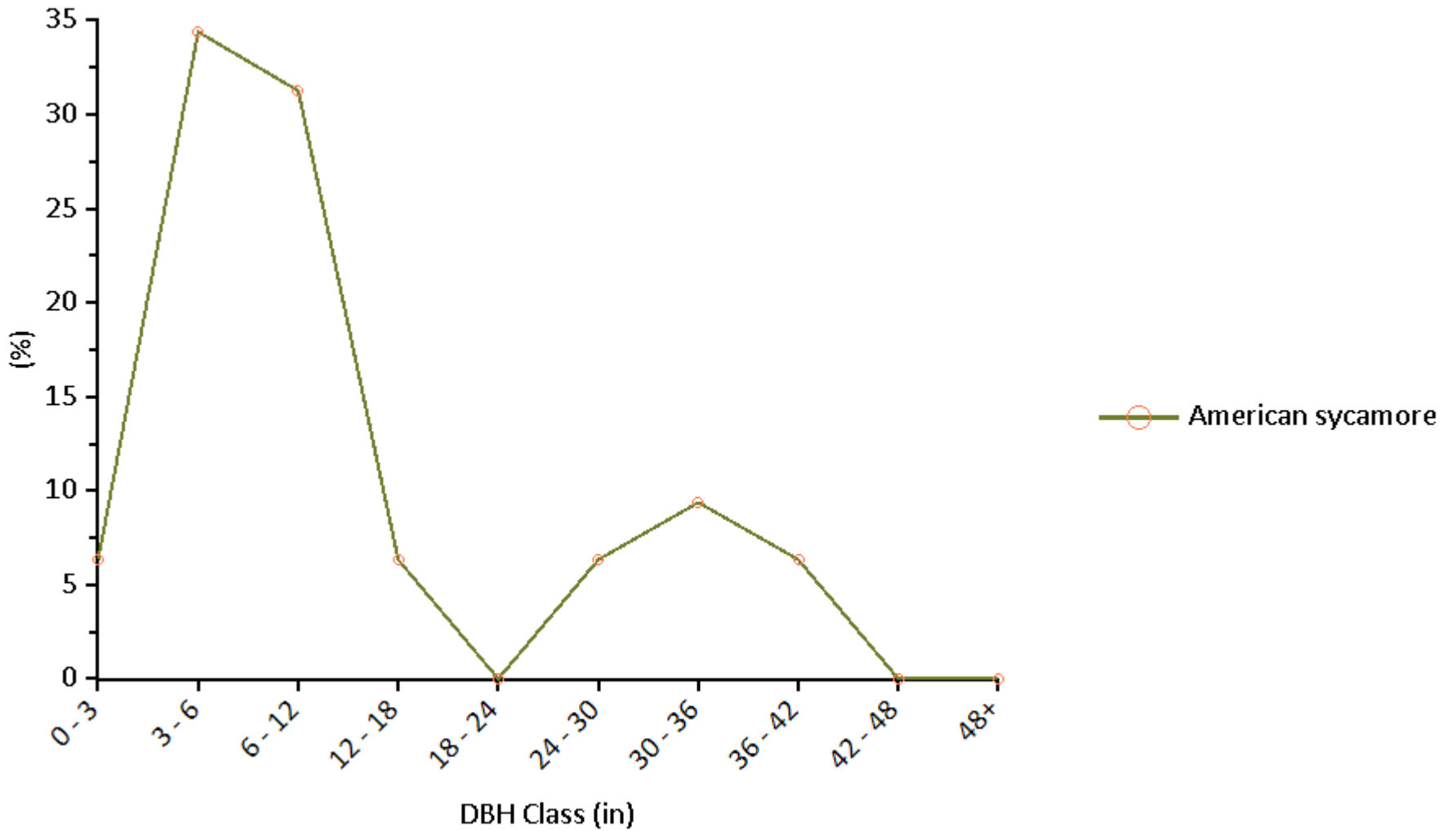


Species Distribution by DBH Class

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021

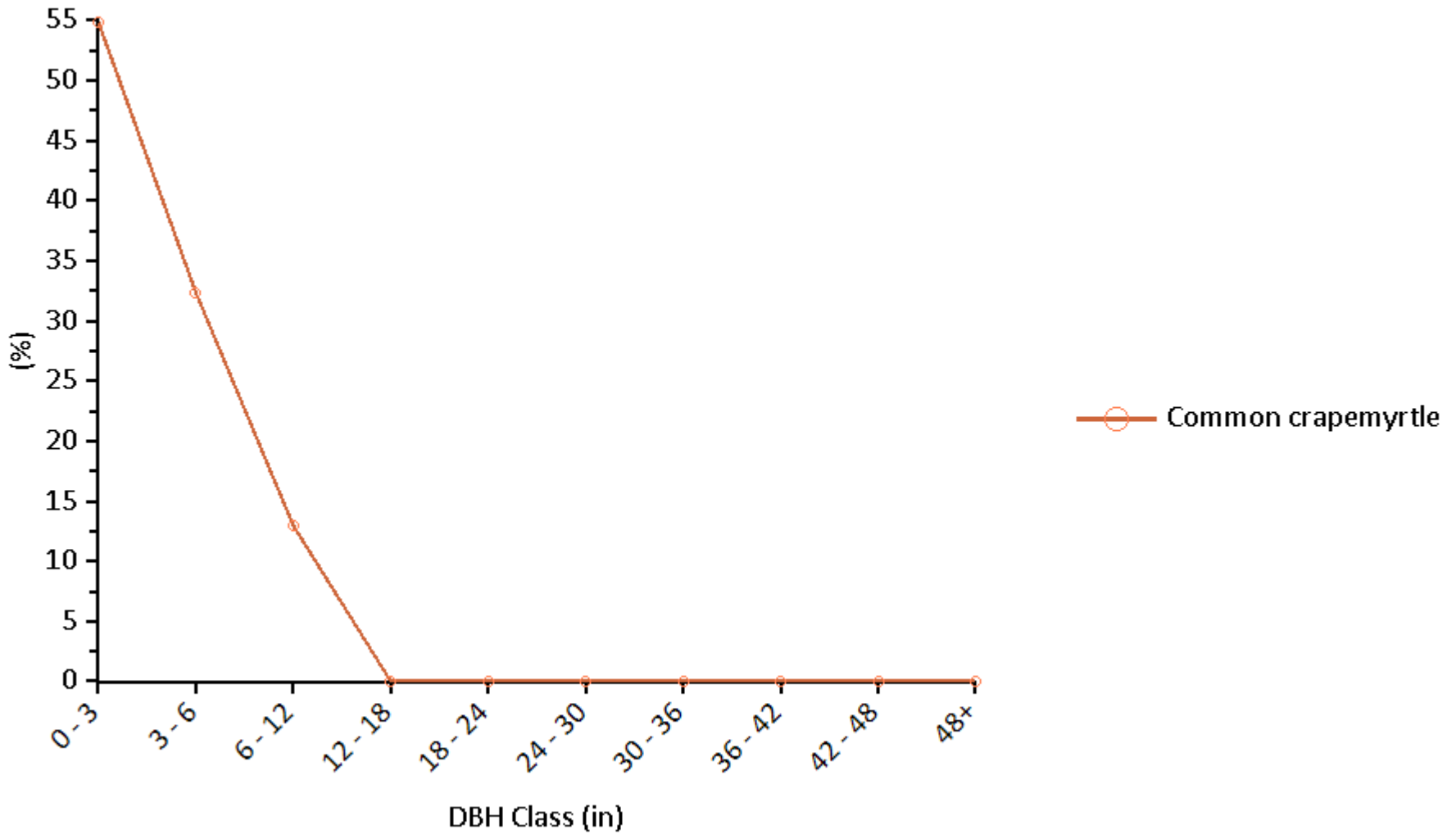


Species Distribution by DBH Class

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021



Benefits Summary of Trees by Species

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021



Species	Trees Number	Carbon Storage		Gross Carbon Sequestration		Avoided Runoff		Structural Value (\$)
		(ton)	(\$)	(ton/yr)	(\$/yr)	(ft ³ /yr)	(\$/yr)	
maple spp	1	0.01	1.88	0.00	0.38	1.13	0.08	56.09
Trident maple	5	0.15	26.14	0.00	0.72	12.23	0.82	1,029.72
Hedge maple	3	0.20	33.49	0.00	0.27	20.89	1.40	1,646.20
Amur maple	1	0.05	8.60	0.00	0.58	3.30	0.22	213.29
Boxelder	4	11.86	2,022.53	0.04	6.14	89.25	5.97	11,335.53
Norway maple	2	0.51	86.23	0.01	1.15	1.47	0.10	761.45
Red maple	111	38.32	6,534.79	0.93	158.93	1,563.51	104.51	191,508.60
Silver maple	8	13.21	2,253.44	0.12	19.88	226.62	15.15	31,403.62
Sugar maple	8	0.44	74.77	0.02	3.09	35.06	2.34	2,996.56
Red horsechestnut	8	0.17	29.27	0.02	4.24	19.68	1.32	877.81
Red buckeye	1	0.01	1.42	0.00	0.40	1.80	0.12	63.10
Tree of heaven	6	3.84	654.08	0.08	12.97	111.19	7.43	9,913.98
Downy serviceberry	7	0.09	14.95	0.01	1.20	4.69	0.31	549.79
Eastern service berry	2	0.00	0.27	0.00	0.13	0.45	0.03	82.67
River birch	34	6.30	1,074.66	0.19	32.53	359.25	24.01	32,590.68
hickory spp	5	2.12	360.86	0.04	7.64	59.15	3.95	7,890.71
Southern catalpa	10	6.14	1,047.83	0.07	11.17	367.21	24.55	35,383.75
American hornbeam	10	0.11	18.33	0.01	1.71	18.66	1.25	750.16
redbud spp	7	0.47	80.66	0.00	0.24	22.76	1.52	3,464.14
Eastern redbud	53	1.62	275.89	0.01	1.25	168.36	11.25	22,023.38
Forest Pansy redbud	18	0.10	17.36	0.02	3.31	20.42	1.37	1,022.05
Sugarberry	4	0.02	3.19	0.00	0.37	7.09	0.47	416.44
Northern hackberry	15	0.13	22.08	0.01	2.18	48.10	3.22	3,628.68
cladrastis spp	23	0.28	47.50	0.03	4.71	25.60	1.71	2,246.53
Flowering dogwood	3	0.01	1.75	0.00	0.31	0.80	0.05	92.61
Washington hawthorn	1	0.02	2.63	0.00	0.32	0.83	0.06	151.15
American beech	3	0.02	2.78	0.00	0.57	6.43	0.43	216.36

Benefits Summary of Trees by Species

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021



Species	Trees Number	Carbon Storage		Gross Carbon Sequestration		Avoided Runoff		Structural Value (\$)
		(ton)	(\$)	(ton/yr)	(\$/yr)	(ft ³ /yr)	(\$/yr)	
ash spp	6	9.79	1,670.18	0.01	1.49	19.85	1.33	6,646.29
Ginkgo	1	0.00	0.36	0.00	0.06	1.49	0.10	98.60
Thornless honeylocust	12	0.12	20.84	0.01	2.46	10.25	0.69	958.14
Shademaster honeylocust	1	0.00	0.56	0.00	0.17	0.87	0.06	46.41
Kentucky coffeetree	12	0.06	10.65	0.01	1.05	21.49	1.44	1,221.46
American holly	1	0.45	76.95	0.01	0.88	38.88	2.60	3,499.82
Black walnut	3	1.68	286.83	0.05	8.06	122.41	8.18	13,786.88
Eastern red cedar	12	0.19	32.65	0.01	2.24	14.29	0.96	1,749.92
Chinese flame tree	2	0.01	1.62	0.00	0.35	2.00	0.13	88.33
Goldenrain tree	43	0.98	166.81	0.06	10.70	119.32	7.98	6,297.09
Common crapemyrtle	31	0.72	122.69	0.05	8.95	32.83	2.19	5,896.90
sweetgum spp	8	0.15	25.29	0.01	2.51	17.47	1.17	1,252.46
Sweetgum	30	15.99	2,727.41	0.36	62.05	884.06	59.10	116,669.55
Tulip tree	19	9.21	1,570.23	0.08	13.58	491.48	32.85	47,011.77
apple spp	14	1.30	222.05	0.05	9.26	29.12	1.95	7,000.97
Saucer magnolia	1	0.00	0.71	0.00	0.12	0.47	0.03	33.30
Sweetbay	6	0.04	6.78	0.01	1.12	8.12	0.54	466.85
Dawn redwood	3	0.14	23.35	0.01	1.38	22.63	1.51	2,630.08
White mulberry	11	6.82	1,163.68	0.06	10.08	262.69	17.56	38,862.16
Black tupelo	26	0.23	39.21	0.03	5.52	24.04	1.61	3,010.53
Persian ironwood	1	2.71	461.63	0.00	0.11	54.65	3.65	8,849.89
Chinese pistache	33	0.57	97.82	0.05	7.72	56.06	3.75	7,821.19
Eastern white pine	1	0.03	5.09	0.00	0.44	3.80	0.25	633.48
sycamore spp	3	0.02	3.50	0.00	0.65	3.57	0.24	184.77
London planetree	28	6.62	1,129.67	0.20	33.95	218.97	14.64	20,933.06
London planetree Bloodgood	3	0.19	32.29	0.01	1.88	15.72	1.05	1,289.95
American sycamore	32	14.17	2,417.28	0.21	35.26	718.64	48.04	68,535.29

Benefits Summary of Trees by Species

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021



Species	Trees Number	Carbon Storage		Gross Carbon Sequestration		Avoided Runoff		Structural Value (\$)
		(ton)	(\$)	(ton/yr)	(\$/yr)	(ft ³ /yr)	(\$/yr)	
cottonwood spp	6	20.18	3,442.39	0.25	42.37	236.21	15.79	23,027.82
plum spp	31	9.35	1,594.51	0.04	6.56	144.30	9.65	15,687.13
Kwanzan cherry	11	0.61	103.58	0.01	1.93	33.91	2.27	3,277.09
Common chokecherry	16	0.16	28.00	0.03	4.82	14.57	0.97	774.41
Yoshino flowering cherry	17	1.10	187.99	0.02	3.05	27.08	1.81	2,436.85
'Bradford' callery pear	2	1.68	286.86	0.04	6.96	48.44	3.24	7,436.74
oak spp	3	0.37	63.67	0.02	3.02	22.93	1.53	2,097.25
Sawtooth oak	16	6.21	1,059.64	0.19	33.00	312.33	20.88	29,107.73
White oak	5	2.36	402.82	0.04	6.01	137.17	9.17	15,127.54
Swamp white oak	17	0.72	122.66	0.07	12.50	34.63	2.31	4,292.51
Scarlet oak	17	5.39	919.96	0.07	12.71	145.63	9.73	21,263.51
Southern red oak	2	5.72	976.32	0.00	0.49	44.28	2.96	17,548.51
Overcup oak	3	0.01	1.45	0.00	0.28	1.80	0.12	147.24
Bur oak	5	0.01	2.10	0.00	0.40	5.25	0.35	329.89
Pin oak	52	33.96	5,791.37	0.28	47.69	1,529.52	102.24	156,155.79
Willow oak	42	82.64	14,094.70	0.44	75.65	2,930.03	195.86	348,482.33
Northern red oak	25	47.23	8,055.05	0.23	39.37	845.83	56.54	169,792.82
Shumard oak	1	0.01	2.07	0.00	0.30	0.87	0.06	56.09
Black oak	1	0.02	4.07	0.00	0.34	0.78	0.05	121.70
sumac spp	1	0.05	8.96	0.00	0.22	0.38	0.03	254.45
Black locust	21	9.13	1,557.42	0.04	6.78	235.48	15.74	34,030.24
Pagoda tree	4	0.05	7.80	0.01	1.01	3.70	0.25	341.49
Japanese tree lilac	6	0.04	7.39	0.01	1.52	4.09	0.27	273.56
Baldcypress	10	0.21	35.01	0.02	3.54	15.97	1.07	2,634.02
'Greenspire' littleleaf linden	4	0.08	12.81	0.01	2.05	8.47	0.57	445.16
American elm	108	59.82	10,202.69	1.23	209.30	1,878.18	125.55	252,540.78
New Harmony elm	10	0.19	32.11	0.02	3.91	12.73	0.85	956.96

Benefits Summary of Trees by Species

Location: Washington, District of Columbia, District of Columbia, United States of America

Project: Marvin Gaye Park, Series: 1, Year: 2021

Generated: 6/1/2021



Species	Trees Number	Carbon Storage		Gross Carbon Sequestration		Avoided Runoff		Structural Value (\$)
		(ton)	(\$)	(ton/yr)	(\$/yr)	(ft ³ /yr)	(\$/yr)	
Princeton elm	7	0.24	41.72	0.02	3.78	14.28	0.95	1,378.90
Smoothleaf elm	1	0.01	1.12	0.00	0.33	1.26	0.08	56.61
Chinese elm	7	1.30	222.09	0.04	6.24	51.45	3.44	6,811.41
Siberian elm	1	1.12	190.33	0.02	2.77	46.23	3.09	3,313.31
elm spp	10	0.49	83.43	0.04	6.23	29.10	1.95	2,502.55
Japanese zelkova	20	0.45	76.68	0.02	3.36	70.65	4.72	6,358.84
Total	1,178	449.32	76,632.26	6.14	1,046.90	15,278.63	1,021.31	1,856,851.41

Carbon storage and gross carbon sequestration value is calculated based on the price of \$170.55 per ton.

Due to limits of available models, i-Tree Eco will limit carbon storage to a maximum of 7,500 kg (16,534.7 lbs) and not estimate additional storage for any tree beyond a diameter of 254 cm (100 in). Whichever limit results in lower carbon storage is used.

Avoided runoff value is calculated by the price \$0.067/ft³. The user-designated weather station reported 68.5 inches of total annual precipitation.

Eco will always use the hourly measurements that have the greatest total rainfall or user-submitted rainfall if provided.

Structural value is the estimated local cost of having to replace a tree with a similar tree.

A value of zero may indicate that ancillary data (pollution, weather, energy, etc.) is not available for this location or that the reported amounts are too small to be shown.

Report

- Top 10% shows the best matches.
- All shows the entire ranked list.

Trees Recommended by i-Tree Species



This is a list of the top 10% of tree species based on the following functions.

Generated: 6/1/2021

Location: Washington, District of Columbia, United States of America

Hardiness: 7

Constraints:

- Minimum Height: None
- Maximum Height: None

Air Pollutant Removal (0-10 Importance)

- Overall: 7

Other Functions (0-10 Importance)

- Low VOC: 0
- Carbon Storage: 0
- Wind Reduction: 0
- Air Temperature Reduction: 0
- UV Radiation Reduction: 0
- Building Energy Reduction: 0
- Streamflow Reduction: 10
- Low Allergenicity: 0

S = Sensitive I = Intermediate S/I = Indeterminate

Species		Hardiness Zone	Invasive	Sensitivity			Pest Risk
Scientific Name	Common Name			Ozone (O3)	Nitrogen Dioxide (NO2)	Sulfur Dioxide (SO2)	Possible Pests
LIRIODENDRON TULIPIFERA	TULIP TREE	5 ~ 9		S			
ULMUS AMERICANA	AMERICAN ELM	3 ~ 9			I/S	Asian Longhorned Beetle, Dutch Elm Disease, Winter Moth	
TILIA AMERICANA	AMERICAN BASSWOOD	4 ~ 9		I	I	Gypsy Moth, Winter Moth	
ULMUS GLABRA	WYCH ELM	4 ~ 7				Asian Longhorned Beetle, Dutch Elm Disease	
SEQUOIA SEMPERVIRENS	COAST REDWOOD	7 ~ 10				Sudden Oak Death	
BETULA ALLEGHANIENSIS	YELLOW BIRCH	3 ~ 7		I	S	Asian Longhorned Beetle, Large Aspen Tortrix, Winter Moth	
LIRIODENDRON CHINENSE	CHINESE TULIP TREE	5 ~ 9**					

Species		Hardiness Zone	Invasive	Sensitivity			Pest Risk
Scientific Name	Common Name			Ozone (O3)	Nitrogen Dioxide (NO2)	Sulfur Dioxide (SO2)	Possible Pests
MAGNOLIA ACUMINATA	CUCUMBER TREE	4 ~ 8					
MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	7 ~ 10					
TSUGA HETEROPHYLLA	WESTERN HEMLOCK	6 ~ 7		I		Southern Pine Beetle, Western Spruce Budworm, Annosus Root Disease, Douglas-fir Black Stain Root Disease	
MAGNOLIA OFFICINALIS	NCN - MAGNOLIA OFFICINALIS	6 ~ 8					
TSUGA MERTENSIANA	MOUNTAIN HEMLOCK	5 ~ 7				Fir Engraver, Southern Pine Beetle, Western Spruce Budworm, Douglas-fir Black Stain Root Disease	
TSUGA CANADENSIS	EASTERN HEMLOCK	4 ~ 7		I		Hemlock Woolly Adelgid, Southern Pine Beetle	
PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	7 ~ 9				Polyphagous Shot Hole Borer	
TSUGA X JEFFREYI	JEFFREY HEMLOCK	5 ~ 7**				Southern Pine Beetle	
AESCULUS HIPPOCASTANUM	HORSECHESTNUT	4 ~ 7				Asian Longhorned Beetle, Sudden Oak Death	
ACER PLATANOIDES	NORWAY MAPLE	4 ~ 7		S	I	Asian Longhorned Beetle, Winter Moth	
PICEA ABIES	NORWAY SPRUCE	3 ~ 7				Mountain Pine Beetle, Pine Shoot Beetle, Southern Pine Beetle, Spruce Beetle, Western Spruce Budworm, Annosus Root Disease, Heterobasidion Root Disease, Sirex Wood Wasp, Balsam Woolly Adelgid, Spruce Budworm	
TILIA TOMENTOSA	SILVER LINDEN	5 ~ 7				Gypsy Moth	
ACER RUBRUM	RED MAPLE	4 ~ 10		I	I	Asian Longhorned Beetle, Winter Moth	
CUNNINGHAMIA LANCEOLATA	BLUE CHINESE FIR	7 ~ 9					

Species		Hardiness Zone	Invasive	Sensitivity			Pest Risk
Scientific Name	Common Name			Ozone (O3)	Nitrogen Dioxide (NO2)	Sulfur Dioxide (SO2)	Possible Pests
CELTIS OCCIDENTALIS	NORTHERN HACKBERRY	3 ~ 9				Asian Longhorned Beetle	
TILIA CORDATA	LITTLELEAF LINDEN	4 ~ 7				Gypsy Moth	
ZELKOVA SERRATA	JAPANESE ZELKOVA	5 ~ 8		S			
ACER X FREEMANII	FREEMAN MAPLE	4 ~ 8				Asian Longhorned Beetle	
AESCULUS FLAVA	YELLOW BUCKEYE	4 ~ 8		S		Asian Longhorned Beetle	
ACER PSEUDOPLATANUS	SYCAMORE MAPLE	5 ~ 7				Asian Longhorned Beetle, Sudden Oak Death	
TSUGA CAROLINIANA	CAROLINA HEMLOCK	4 ~ 7				Hemlock Woolly Adelgid, Southern Pine Beetle	
PLATANUS WRIGHTII	ARIZONA SYCAMORE	7 ~ 9					
CEDRUS DEODARA	DEODAR CEDAR	7 ~ 9					
METASEQUOIA GLYPTOSTROBOIDES	DAWN REDWOOD	5 ~ 8*					
PLATANUS ORIENTALIS	ORIENTAL PLANETREE	7 ~ 9					
CORYLUS COLURNA	TURKISH HAZELNUT	5 ~ 7					
PICEA ASPERATA	CHINESE SPRUCE	6 ~ 7				Southern Pine Beetle, Spruce Beetle	
ULMUS SEROTINA	SEPTEMBER ELM	5 ~ 8				Asian Longhorned Beetle, Dutch Elm Disease, Winter Moth	
CEDRUS LIBANI	CEDAR OF LEBANON	6 ~ 8					
ACER MACROPHYLLUM	BIGLEAF MAPLE	7 ~ 10		I		Asian Longhorned Beetle, Winter Moth, Sudden Oak Death, Polyphagous Shot Hole Borer	

Species		Hardiness Zone	Invasive	Sensitivity			Pest Risk
Scientific Name	Common Name			Ozone (O3)	Nitrogen Dioxide (NO2)	Sulfur Dioxide (SO2)	Possible Pests
OSTRYA CARPINIFOLIA	HOP HORNBEAM	6 ~ 9					
AESCULUS GLABRA	OHIO BUCKEYE	4 ~ 7		I		Asian Longhorned Beetle	
QUERCUS PETRAEA	DURMAST OAK	5 ~ 8				Gypsy Moth, Oak Wilt	
FRAXINUS UHDEI	EVERGREEN ASH	7 ~ 10				Emerald Ash Borer	
JUGLANS NIGRA	BLACK WALNUT	4 ~ 9				Thousand Canker Disease, Butternut Canker	
FRAXINUS QUADRANGULATA	BLUE ASH	5 ~ 7				Emerald Ash Borer, Winter Moth	
LARIX LEPTOLEPIS	JAPANESE LARCH	5 ~ 7*		I	S	Spruce Budworm	
PLATANUS HYBRIDA	LONDON PLANETREE	5 ~ 8*				Asian Longhorned Beetle	
FRAXINUS PENNSYLVANICA	GREEN ASH	3 ~ 9		S	S	Asian Longhorned Beetle, Emerald Ash Borer, Winter Moth	
FRAXINUS AMERICANA	WHITE ASH	4 ~ 9		S		Emerald Ash Borer, Winter Moth	
PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	5 ~ 9		S			
PINUS PALUSTRIS	LONGLEAF PINE	7 ~ 10				Pine Shoot Beetle, Sirex Wood Wasp, Southern Pine Beetle, Heterobasidion Root Disease	
FAGUS GRANDIFOLIA	AMERICAN BEECH	4 ~ 8				Beech Bark Disease, Gypsy Moth	
QUERCUS SUBER	CORK OAK	7 ~ 11				Gypsy Moth, Oak Wilt	
FRAXINUS EXCELSIOR	EUROPEAN ASH	5 ~ 8				Emerald Ash Borer, Sudden Oak Death	
PINUS STROBUS	EASTERN WHITE PINE	4 ~ 7		I/S	S	Pine Shoot Beetle, Sirex Wood Wasp, Southern Pine Beetle, White Pine Blister Rust, Heterobasidion Root Disease, Jack Pine Budworm	

Species		Hardiness Zone	Invasive	Sensitivity			Pest Risk
Scientific Name	Common Name			Ozone (O3)	Nitrogen Dioxide (NO2)	Sulfur Dioxide (SO2)	Possible Pests
SEQUOIA GIGANTEUM	GIANT SEQUOIA	6 ~ 8					
MORUS RUBRA	RED MULBERRY	5 ~ 9					
BETULA LENTA	BLACK BIRCH	3 ~ 7			S	Asian Longhorned Beetle, Large Aspen Tortrix, Winter Moth	
ACER SACCHARUM	SUGAR MAPLE	5 ~ 8				Asian Longhorned Beetle, Winter Moth, Forest Tent Caterpillar	
MAGNOLIA MACROPHYLLA	BIGLEAF MAGNOLIA	5 ~ 8					
GINKGO BILOBA	GINKGO	4 ~ 8					
ULMUS CRASSIFOLIA	CEDAR ELM	7 ~ 9				Asian Longhorned Beetle, Dutch Elm Disease, Winter Moth	
TILIA EUCHLORA	CRIMEAN LINDEN	4 ~ 7*		I		Gypsy Moth	
TILIA PETIOLARIS	PENDENT SILVER LINDEN	6 ~ 7*				Gypsy Moth	
TILIA X VULGARIS	COMMON LINDEN	4 ~ 7*				Gypsy Moth	
CUPRESSUS MACROCARPA	MONTEREY CYPRESS	7 ~ 9					
CELTIS LAEVIGATA	SUGARBERRY	5 ~ 10					
JUGLANS AILANTHIFOLIA	JAPANESE WALNUT	5 ~ 9**					
JUGLANS X BIXBYI	BIXBY WALNUT	5 ~ 9**					
JUGLANS X INTERMEDIA	INTERMEDIATE WALNUT	5 ~ 9**					
JUGLANS JAMAICENSIS	WEST INDIAN WALNUT	5 ~ 9**					
JUGLANS MICROCARPA	LITTLE WALNUT	5 ~ 9**					

Species		Hardiness Zone	Invasive	Sensitivity			Pest Risk
Scientific Name	Common Name			Ozone (O3)	Nitrogen Dioxide (NO2)	Sulfur Dioxide (SO2)	Possible Pests
JUGLANS X QUADRANGULATA	NCN - WALNUT	5 ~ 9**					
NYSSA BIFLORA	SWAMP TUPELO	6 ~ 9**				Forest Tent Caterpillar	
NYSSA URSINA	BEAR TUPELO	6 ~ 9**					
ULMUS PARVIFOLIA	CHINESE ELM	6 ~ 10		I	S	Asian Longhorned Beetle, Gypsy Moth	
ULMUS PUMILA	SIBERIAN ELM	4 ~ 9				Asian Longhorned Beetle, Dutch Elm Disease, Winter Moth	
PICEA KORAIENSIS	KOREAN SPRUCE	4 ~ 7**				Southern Pine Beetle, Spruce Beetle	
FAGUS SYLVATICA	EUROPEAN BEECH	4 ~ 7				Beech Bark Disease, Sudden Oak Death	
JUGLANS CINEREA	BUTTERNUT	4 ~ 7				Butternut Canker	
PRUNUS SEROTINA	BLACK CHERRY	4 ~ 9		S		Winter Moth	
OSTRYA KNOWLTONII	KNOWLTON HOPHORNBEAM	5 ~ 9**					
TAXODIUM DISTICHUM	BALDCYPRESS	4 ~ 10					
TAXODIUM ASCENDENS	POND CYPRESS	6 ~ 10					
TAXODIUM MUCRONATUM	MONTEZUMA CYPRESS	6 ~ 10**					
AESCULUS X WORLITZENSIS	WORLITZ'S CHESTNUT	5 ~ 8**				Asian Longhorned Beetle	
AESCULUS X BUSHII	BUSH'S CHESNUT	5 ~ 8**				Asian Longhorned Beetle	
AESCULUS CHINENSIS	CHINESE HORSE CHESTNUT	5 ~ 8**				Asian Longhorned Beetle	
AESCULUS X HYBRIDA	HYBRID CHESNUT	5 ~ 8*				Asian Longhorned Beetle	

Species		Hardiness Zone	Invasive	Sensitivity			Pest Risk
Scientific Name	Common Name			Ozone (O3)	Nitrogen Dioxide (NO2)	Sulfur Dioxide (SO2)	Possible Pests
AESCULUS X MARYLANDICA	MARYLAND CHESNUT	5 ~ 8**				Asian Longhorned Beetle	
AESCULUS X MUTABILIS	APRICOT-FLOWERED DWARF HORSE CHESTNUT	5 ~ 8**				Asian Longhorned Beetle	
AESCULUS X NEGLECTA	SPRING YELLOW HORSE CHESTNUT	5 ~ 8**				Asian Longhorned Beetle	

Hardiness zone derived from Hortocopia database based on USDA Hardiness zones. For hardiness zones with decimal (e.g., 4.5) values were rounded down for maximum hardiness (e.g., 4) and up for minimum hardiness zone (e.g., 5)

* Some uncertainty to hardiness zone - hardiness zone estimates derived from Dirr (M.A. Dirr, 1975, Manual of Woody Landscape Plants. Stipes Publ. Co. Champaign IL. 1007 p.) and Sunset (1985, New Western Garden Book, Lane Publ. Co. Menlo Park, CA. 512 p.). As hardiness estimates or maps did not always exactly match USDA Hardiness zone ranges, some extrapolations were made to the closest hardiness zone.

** Moderate uncertainty to hardiness zone - hardiness zone estimate based on genera average of minimum and maximum hardiness zone based on Hortocopia database and information from Dirr (1997) and Sunset (1985). Average value was rounded to nearest hardiness zone class (1 -11).

*** High uncertainty to hardiness zone - hardiness zone estimate based on family average of minimum and maximum hardiness zone based on Hortocopia database and information from Dirr (1997) and Sunset (1985). Average value was rounded to nearest hardiness zone class (1 -11).

Sensitivity - "S" indicates sensitive to pollutant; "I" indicates intermediate rating between sensitive and tolerant to pollutant; and "S/I" indicates a mix of sensitive and intermediate ratings in the literature.



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