

Species Vulnerability List New York City

Scientific Name	Trees		Tree Atlas Results		Species Adaptability	Vulnerability
	#	%	High Emissions	Low Emissions		
Sassafras albidum	329,000	4.7	No Change	No Change	moderate	Moderate
Quercus alba	302,000	4.3	No Change	Small Increase	high	Low
Robinia pseudoacacia	285,000	4.1	No Change	No Change	moderate	Moderate
Betula lenta	274,000	3.9	Large Decrease	Small Decrease	low	High
Acer rubrum	230,000	3.3	Large Decrease	Small Decrease	high	Moderate
Carya glabra	159,000	2.3	No Change	No Change	moderate	Moderate
Quercus palustris	123,000	1.8	Small Increase	Large Increase	low	Moderate
Celtis occidentalis	121,000	1.7	Large Increase	Small Increase	high	Low
Liquidambar styraciflua	102,000	1.5	Large Increase	Large Increase	moderate	Low-moderate
Quercus rubra	98,000	1.4	Small Decrease	Small Decrease	high	Moderate
Liriodendron tulipifera	92,000	1.3	Small Decrease	No Change	high	Moderate
Quercus bicolor	89,000	1.3	extirpated	Small Decrease	moderate	Moderate-high
Cornus florida	73,000	1.No Change	Small Increase	Small Increase	moderate	Low-moderate
Acer saccharinum	64,000	No Change.9	Large Increase	Small Increase	high	Low
Gleditsia triacanthos	64,000	No Change.9	new habitat	NA	high	Low

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Quercus velutina	61,000	No Change.9	No Change	No Change	moderate	Low-moderate
Tsuga canadensis	51,000	No Change.7	Large Decrease	Large Decrease	low	High
Juniperus virginiana	44,000	No Change.6	Small Increase	No Change	moderate	Low-moderate
Fraxinus pennsylvanica	26,000	No Change.4	Small Increase	No Change	moderate	Low-moderate
Prunus serotina	25,000	No Change.4	Large Decrease	Small Decrease	low	High
Betula nigra	22,000	No Change.3	NA	NA	moderate	Moderate
Ulmus americana	21,000	No Change.3	Small Increase	No Change	moderate	Low-moderate
Tilia americana	20,000	No Change.3	No Change	No Change	moderate	Low-moderate
Carya alba	18,000	No Change.3	Small Increase	Small Increase	high	Low
Chamaecyparis thyoides	14,000	No Change.2	Large Decrease	Large Decrease	low	High
Betula populifolia	12,000	No Change.2	extirpated	extirpated	moderate	Moderate-high
Diospyros virginiana	12,000	No Change.2	Large Increase	Large Increase	high	Low
Nyssa sylvatica	12,000	No Change.2	Small Increase	Small Increase	high	Low
Pinus strobus	12,000	No Change.2	Large Decrease	Small Decrease	low	High
Quercus phellos	12,000	No Change.2	new habitat	new habitat	moderate	Low-moderate

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Carpinus caroliniana	8,000	No Change.1	Small Increase	Small Increase	moderate	Low-moderate
Maclura pomifera	7,000	No Change.1	Small Increase	No Change	high	Low
Acer negundo	6,000	No Change.1	Small Decrease	Small Decrease	high	Moderate
Acer saccharum	6,000	No Change.1	Large Decrease	No Change	high	Moderate
Fraxinus americana	6,000	No Change.1	Large Decrease	Small Decrease	low	High
Quercus prinus	6,000	No Change.1	Small Decrease	No Change	high	Moderate
Acer pensylvanicum	Small Decrease	Small Decrease	extirpated	extirpated	moderate	Moderate-high
Amelanchier spp	Small Decrease	Small Decrease	Small Decrease	Small Decrease	moderate	Moderate-high
Asimina triloba	Small Decrease	Small Decrease	new habitat	new habitat	moderate	Low-moderate
Betula alleghaniensis	Small Decrease	Small Decrease	Large Decrease	Small Decrease	moderate	Moderate-high
Carya cordiformis	Small Decrease	Small Decrease	Large Increase	Large Increase	high	Low
Carya illinoensis	Small Decrease	Small Decrease	new habitat	new habitat	low	Moderate
Carya laciniosa	Small Decrease	Small Decrease	new habitat	NA	moderate	Low-moderate
Carya ovata	Small Decrease	Small Decrease	Small Increase	Small Increase	moderate	Low-moderate
Carya texana	Small Decrease	Small Decrease	new habitat	new habitat	moderate	Low-moderate

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<i>Celtis laevigata</i>	Small Decrease	Small Decrease	new habitat	new habitat	moderate	Low-moderate
<i>Cercis canadensis</i>	Small Decrease	Small Decrease	new habitat	new habitat	moderate	Low-moderate
<i>Fagus grandifolia</i>	Small Decrease	Small Decrease	Small Decrease	No Change	moderate	Moderate-high
<i>Ilex opaca</i>	Small Decrease	Small Decrease	new habitat	new habitat	moderate	Low-moderate
<i>Juglans nigra</i>	Small Decrease	Small Decrease	No Change	Small Increase	moderate	Low-moderate
<i>Magnolia virginiana</i>	Small Decrease	Small Decrease	new habitat	NA	moderate	Low-moderate
<i>Morus rubra</i>	Small Decrease	Small Decrease	new habitat	new habitat	moderate	Low-moderate
<i>Nyssa aquatica</i>	Small Decrease	Small Decrease	new habitat	NA	low	Moderate
<i>Nyssa biflora</i>	Small Decrease	Small Decrease	new habitat	new habitat	low	Moderate
<i>Ostrya virginiana</i>	Small Decrease	Small Decrease	Small Increase	Small Increase	high	Low
<i>Oxydendrum arboreum</i>	Small Decrease	Small Decrease	new habitat	new habitat	high	Low
<i>Pinus echinata</i>	Small Decrease	Small Decrease	Large Increase	Large Increase	moderate	Low-moderate
<i>Pinus elliotii</i>	Small Decrease	Small Decrease	new habitat	NA	moderate	Low-moderate
<i>Pinus rigida</i>	Small Decrease	Small Decrease	Large Decrease	Large Decrease	moderate	Moderate-high
<i>Pinus serotina</i>	Small Decrease	Small Decrease	new habitat	NA	low	Moderate

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<i>Pinus taeda</i>	Small Decrease	Small Decrease	new habitat	new habitat	moderate	Low-moderate
<i>Pinus virginiana</i>	Small Decrease	Small Decrease	NA	new habitat	moderate	Low-moderate
<i>Platanus occidentalis</i>	Small Decrease	Small Decrease	Large Increase	Small Increase	moderate	Low-moderate
<i>Populus deltoides</i>	Small Decrease	Small Decrease	Small Increase	No Change	moderate	Low-moderate
<i>Populus grandidentata</i>	Small Decrease	Small Decrease	extirpated	extirpated	moderate	Moderate-high
<i>Populus tremuloides</i>	Small Decrease	Small Decrease	extirpated	extirpated	moderate	Moderate-high
<i>Prunus pensylvanica</i>	Small Decrease	Small Decrease	extirpated	extirpated	moderate	Moderate-high
<i>Quercus coccinea</i>	Small Decrease	Small Decrease	Small Decrease	No Change	moderate	Moderate-high
<i>Quercus falcata</i>	Small Decrease	Small Decrease	new habitat	new habitat	high	Low
<i>Quercus imbricaria</i>	Small Decrease	Small Decrease	new habitat	new habitat	moderate	Low-moderate
<i>Quercus lyrata</i>	Small Decrease	Small Decrease	new habitat	NA	low	Moderate
<i>Quercus marilandica</i>	Small Decrease	Small Decrease	new habitat	new habitat	high	Low
<i>Quercus michauxii</i>	Small Decrease	Small Decrease	new habitat	NA	moderate	Low-moderate
<i>Quercus muehlenbergii</i>	Small Decrease	Small Decrease	Small Increase	Small Increase	moderate	Low-moderate
<i>Quercus nigra</i>	Small Decrease	Small Decrease	new habitat	NA	moderate	Low-moderate

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Quercus pagoda	Small Decrease	Small Decrease	new habitat	new habitat	moderate	Low-moderate
Quercus shumardii	Small Decrease	Small Decrease	new habitat	NA	high	Low
Quercus stellata	Small Decrease	Small Decrease	new habitat	new habitat	high	Low
Salix nigra	Small Decrease	Small Decrease	Large Increase	Small Increase	low	Moderate
Taxodium distichum	Small Decrease	Small Decrease	new habitat	new habitat	moderate	Low-moderate
Ulmus alata	Small Decrease	Small Decrease	new habitat	new habitat	moderate	Low-moderate
Ulmus crassifolia	Small Decrease	Small Decrease	new habitat	NA	low	moderate
Ulmus rubra	Small Decrease	Small Decrease	Large Increase	Small Increase	moderate	Low-moderate
Ulmus thomasii	Small Decrease	Small Decrease	NA	new habitat	low	Moderate