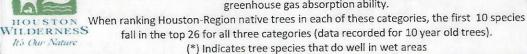


greenhouse gas absorption ability.







It's Our Nature







1) Live Oak	
CO2 Sequestered per year (lbs.): 1,023	
Flood Mitigation per year (gals.): 3,542	
GHG Absorption per year (lbs.): 2	
Flower: N/A	
Height at Maturity: 60-80 ft	

Canopy Width: 60-120 ft Soil Tolerance: Acidic, Alkaline, Clay Light: Full-Partial Sun

1	Flood Mitigation per year (gals.): 3,569
	GHG Absorption per year (lbs.): 2
	Flower: Yellowish Green to Reddish Orang
	Height at Maturity: 30-50 ft
	Canopy Width: 30-50 ft
	Soil Tolerance: Alkaline, Clay, Acidic
	Light: Full-Partial Sun

CO2 Sequestered per year (lbs.): 899









3) \*Laurel Oak CO2 Sequestered per year (lbs.): 875 Flood Mitigation per year (gals.): 3,611 GHG Absorption per year (lbs.): 2 Flower: White Height at Maturity: 60-70 ft Canopy Width: 35-45 ft Soil Tolerance: Acidic, (slightly) Alkaline, Clay Light: Full-Partial Sun

	4) Red Maple
-	CO2 Sequestered per year (lbs.): 859
	Flood Mitigation per year (gals.): 4,549
	GHG Absorption per year (lbs.): 2
	Flower: Red
_	Height at Maturity: 40-60 ft
_	Canopy Width: 35-45 ft
-	Soil Tolerance: Acidic (prefers), Alkaline, Clay
	Light: Full-Partial Sun









5) *Willow Oak	
CO2 Sequestered per year (lbs.): 738	
Flood Mitigation per year (gals.): 3,237	
GHG Absorption per year (lbs.): 2	
Flower: N/A	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Height at Maturity: 40-60 ft	
Canopy Width: 30-40 ft	
Soil Tolerance: Acidic, Clay	2010 111100021111
Light: Full Sun	

6) American Elm	
CO2 Sequestered per year (lbs.): 669	
Flood Mitigation per year (gals.): 5,095	
GHG Absorption per year (lbs.): 2	
Flower: Reddish Green	
Height at Maturity: 70-90 ft	
Canopy Width: 50-70 ft	
Soil Tolerance: Alkaline, Clay	
Light: Full Sun	

Visit Houston Wilderness: http://houstonwilderness.org/

Tree Species Characteristic Sources: http://mortonarb.org - http://arborday.org - http://hort.ufl.edu

Ecosystems Services Data Sources: Air quality: https://www.fs.fed.us/nrs/pubs/jrnl/2014/nrs\_2014\_nowak\_001.pdf Carbon:

https://www.epa.gov/sites/production/files/2016-12/documents/sc\_co2\_tsd\_august\_2016.pdf

https://www.fs.usda.gov/ccrc/tools/tree-carbon-calculator-ctcc VOC: https://www.nrs.fs.fed.us/units/urban/local-resources/downloads/vocrates.pdf Stormwater: http://www.itreetools.org/eco/resources/iTree\_Eco\_Precipitation\_Interception\_Model\_Descriptions.pdf











7) Slippery Elm

CO2 Sequestered per year (lbs.): 669 Flood Mitigation per year (gals.): 3,783 GHG Absorption per year (lbs.): 2

Flower: Reddish Orange Height at Maturity: 40-60 ft Canopy Width: 30-50 ft

Soil Tolerance: Alkaline, Acidic, Clay

Light: Full-Partial Sun

8) Tuliptree

CO2 Sequestered per year (lbs.): 659 Flood Mitigation per year (gals.): 3,754

GHG Absorption per year (lbs.): 2 Flower: Yellow-orange Height at Maturity: 70-90 ft Canopy Width: 40 ft

Soil Tolerance: Acidic, Clay

Light: Full Sun









9) American Sycamore

CO2 Sequestered per year (lbs.): 652 Flood Mitigation per year (gals.): 4,313 GHG Absorption per year (lbs.): 2 lower: Green to Greenish Red Height at Maturity: 75-100 ft Canopy Width: 50-70 ft Soil Tolerance: Alkaline (prefers), Acidic, Clay

10) Green Ash

CO2 Sequestered per year (lbs.): 624 Flood Mitigation per year (gals.): 3,706 GHG Absorption per year (lbs.): 3

Flower: Greenish yellow Height at Maturity: 50-60 ft Canopy Width: 25-40 ft

Soil Tolerance: Alkaline, Clay, Acidic

Light: Full Sun

A Super Carbon Tree is one that has a high carbon absorption ability (ranked in the top 20), but ranks below the top 20 in flood mitigation and greenhouse gas absorption ability. Two that are native to the Houston Region are listed below.



Light: Full-Partial Sun







11) Loblolly Pine

CO2 Sequesteres per year (lbs.): 479 Flood Mitigation per year (gals.): 1,752 GHG Absorption per year (lbs.): 1

Height at Maturity: 60-90 ft Canopy Width: 25-35 ft Soil Tolerance: Acidic, Clay

Flower: Yellowish Green

Light: Full Sun

12) White Ash CO2 Sequesteres per year (lbs.): 447

Flood Mitigation per year (gals.): 2,719 GHG Absorption per year (lbs.): 1

Flower: White

Height at Maturity: 50-80 ft Canopy Width: 40-50 ft

Soil Tolerance: Acidic, Alkaline

Light: Full-Partial Sun

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Ecosystems Services Data Sources: Air quality: https://www.fs.fed.us/nrs/pubs/jrnl/2014/nrs\_2014\_nowak\_001.pdf Carbon:

https://www.epa.gov/sites/production/files/2016-12/documents/sc\_co2\_tsd\_august\_2016.pdf

https://www.fs.usda.gov/ccrc/tools/tree-carbon-calculator-ctcc VOC: https://www.nrs.fs.fed.us/units/urban/local-resources/downloads/vocrates.pdf

Stormwater: http://www.itreetools.org/eco/resources/iTree\_Eco\_Precipitation\_Interception\_Model\_Descriptions.pdf