



## APPA

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AIA Continuing Education Provider







































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## Tree Management

APPA

## •Tree Biology – Quiz

- 1. Trees grow from the bottom up. T/F
- 2. Trees shed only leaves and bark.  $\ensuremath{\mathsf{T/F}}$
- 3. When pruning make a smooth flush cut.  $\ensuremath{\mathsf{T/F}}$
- 4. Roots grow farther than the drip line.  $\ensuremath{\mathsf{T/F}}$
- 5. Most trees have tap roots. T/F
- 6. Its better to bore deep than dig shallow. T/F
- 7. Counting the tree's growth rings tell the trees age. T/F











































## Plans, Programs & Inventories

- •Tree Campus USA Arbor Day Foundation Requirements
  - 1.Campus Tree Advisory Committee
  - 2.Campus Tree Care Plan
  - 3.Campus Tree Program with Dedication
  - Annual Expenditures
  - 4.Arbor Day Observance 5.Service Learning Project









Plans, Program	s &	In	ver	nto	ries	
	Diameter	Genus	Species	Condition	Location Value	Estimated 💌
<ul> <li>Automated</li> </ul>		Quercus		Good	Good	\$25,007
/ later hate a		Betula	nigra	Good	Good	\$18,694
		Quercus	aba	Good	Good	\$17,786
		Acer	saccharinum		Good	\$13,495
		Quercus		Good	Good	\$12,064
<ul> <li>Counsel of</li> </ul>		Quercus		Good	Good	\$8,998
		Quercus Quercus		Good	Good	\$5,157
I			aca grandifora	Good	Good	\$5,157
Landscape &		Acer	obom	Good	Good	\$2,991
			grandifora	Good	Good	\$2,792
Tree Appraisers		Acer	rubrum	Good	Good	\$2,077
inee / ippraieere	10	Acer	rubrum	Good	Good	\$2.077
	8	Acer	saccharum	Good	Good	\$1,507
	16	Pyrus	caleryana	Poor	Good	\$1,367
	16	Pyrus	calleryana	Poor	Good	\$1,367
<ul> <li>Established</li> </ul>	8	Magnola	grandifora	Good	Good	\$1,241
Lotabilorica	8	Magnola	grandifora	Good	Good	\$1,241
value baseline	7	Magnolia	grandifora	Good	Good	\$950
	10	Pyrus	calleryana	Fair	Good	\$890
	8	Magnolia	grandifora	Fair	Good	\$886
		Acer	saccharum	Good	Good	\$847
	-	Acer	saccharum	Good	Good	\$589
		Acer	saccharum	Good	Good	\$377
		Acer	saccharum	Good	Good	\$377
		Nyssa	sylvatica	Good	Good	\$237
		Quercus	nuttalii	Good	Good	\$212
	Avg: 10.7					Total: \$137,095

Plans, Programs & Inventories Tree Inventories Carbon Sequestration							
Durham Stored CO2	Benefits of	All T	rees by S	Species			
	Total Stored	Total	Standard	% of Total	% of	Avg.	
	CO2 (lbs)	(\$)	Error	Trees	Total S	S/tree	
					50.1	112.75	
Villowoak	1,984,470	14,884		27.6			
Villow oak White oak	1,984,470 1,250,320	9,377	(N/A)	18.0	31.6	109.04	
Villow oak White oak Shumard oak	1,984,470 1,250,320 14,367	9,377 108	(N/A) (N/A)	18.0 16.1	31.6 0.4	109.04 1.40	
Willow oak White oak Shumard oak Red maple	1,984,470 1,250,320 14,367 28,996	9,377 108 217	(N/A) (N/A) (N/A)	18.0 16.1 11.7	31.6 0.4 0.7	109.04 1.40 3.88	
Willow oak White oak Shumard oak Red maple Southern red oak	1,984,470 1,250,320 14,367 28,996 265,508	9,377 108 217 1,991	(N/A) (N/A) (N/A) (N/A)	18.0 16.1 11.7 8.1	31.6 0.4 0.7 6.7	109.04 1.40 3.88 51.06	
Villow oak White oak Shumard oak Red maple Southern red oak Green ash	1,984,470 1,250,320 14,367 28,996 265,508 106,287	9,377 108 217 1,991 797	(N/A) (N/A) (N/A) (N/A) (N/A)	18.0 16.1 11.7 8.1 3.1	31.6 0.4 0.7 6.7 2.7	109.04 1.40 3.88 51.06 53.14	
Villow oak Vhite oak shumard oak ted maple southern red oak sreen ash Vater oak	1,984,470 1,250,320 14,367 28,996 265,508 106,287 158,111	9,377 108 217 1,991 797 1,186	(N/A) (N/A) (N/A) (N/A) (N/A) (N/A)	18.0 16.1 11.7 8.1 3.1 2.9	31.6 0.4 0.7 6.7 2.7 4.0	109.04 1.40 3.88 51.06 53.14 84.70	
Villow oak Vhite oak shumard oak ted maple southerm red oak Green ash Vater oak Yignut hickory	1,984,470 1,250,320 14,367 28,996 265,508 106,287 158,111 36,454	9,377 108 217 1,991 797 1,186 273	(N/A) (N/A) (N/A) (N/A) (N/A) (N/A) (N/A)	18.0 16.1 11.7 8.1 3.1 2.9 2.7	31.6 0.4 0.7 6.7 2.7 4.0 0.9	109.04 1.40 3.88 51.06 53.14 84.70 21.03	
Villow oak Vhite oak shumard oak ked maple iouthern red oak Green ash Vater oak 'ignut hickory iweetgum	1,984,470 1,250,320 14,367 28,996 265,508 106,287 158,111 36,454 23,410	9,377 108 217 1,991 797 1,186 273 176	(N/A) (N/A) (N/A) (N/A) (N/A) (N/A) (N/A) (N/A)	18.0 16.1 11.7 8.1 3.1 2.9 2.7 2.3	31.6 0.4 0.7 6.7 2.7 4.0 0.9 0.6	109.04 1.40 3.88 51.06 53.14 84.70 21.03 15.96	
Willow oak White oak Shumard oak ded maple Southern red oak Green ash Vater oak Yignut hickory Sweetgum Winged elm	1,984,470 1,250,320 14,367 28,996 265,508 106,287 158,111 36,454 23,410 20,332	9,377 108 217 1,991 797 1,186 273 176 152	(N/A) (N/A) (N/A) (N/A) (N/A) (N/A) (N/A) (N/A) (N/A)	18.0 16.1 11.7 8.1 3.1 2.9 2.7 2.3 1.7	31.6 0.4 0.7 6.7 2.7 4.0 0.9 0.6 0.5	109.04 1.40 3.88 51.06 53.14 84.70 21.03 15.96 19.06	B.
Species Willow oak White oak Shumard oak Red maple Southern red oak Green ash Water oak Pignut hickory Sweetgum Winged elm Tulip tree DTHER STREET 1	1,984,470 1,250,320 14,367 28,996 265,508 106,287 158,111 36,454 23,410	9,377 108 217 1,991 797 1,186 273 176 152 293	(N/A) (N/A) (N/A) (N/A) (N/A) (N/A) (N/A) (N/A)	18.0 16.1 11.7 8.1 3.1 2.9 2.7 2.3	31.6 0.4 0.7 6.7 2.7 4.0 0.9 0.6	109.04 1.40 3.88 51.06 53.14 84.70 21.03 15.96	















