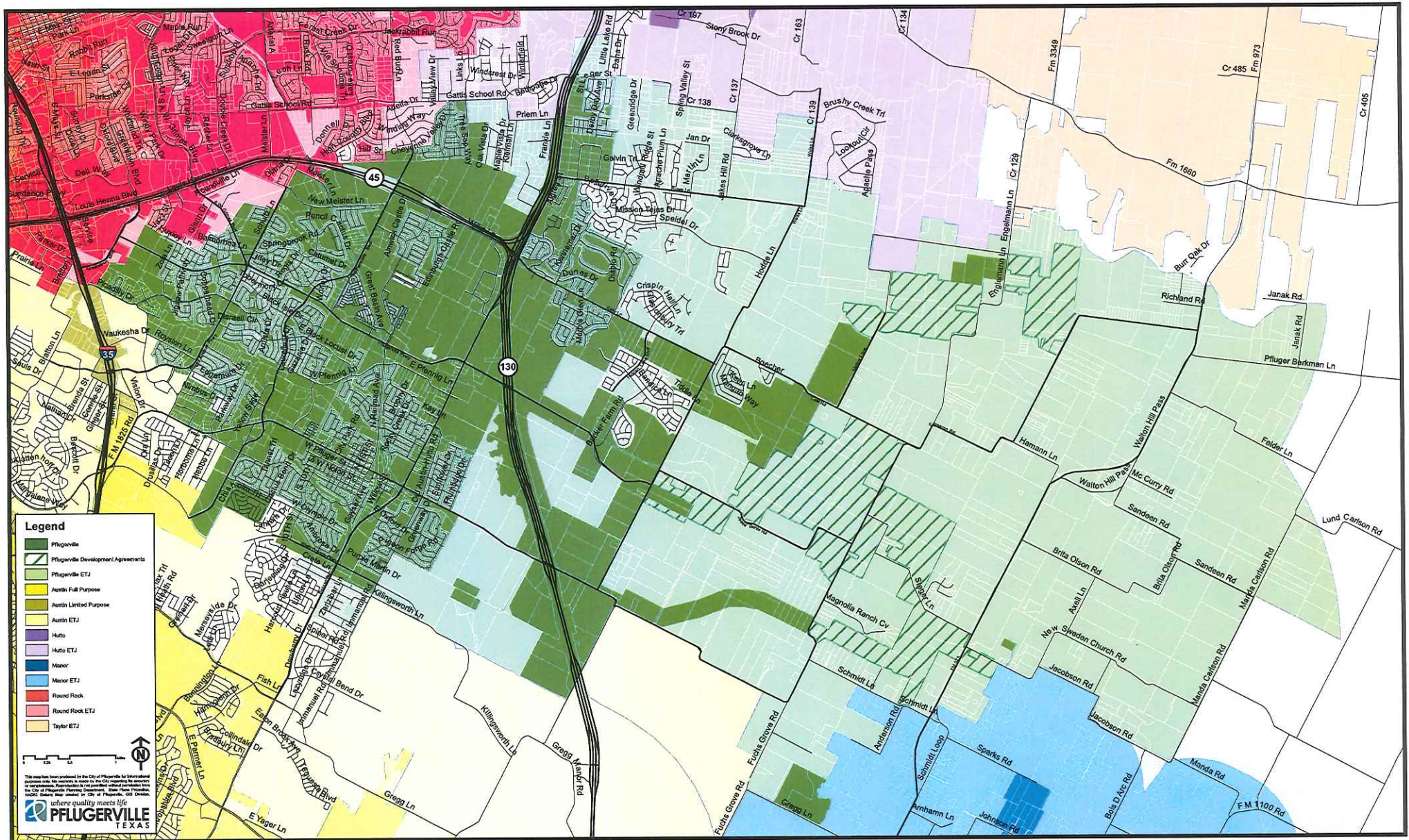


City Limits





i-Tree

Tools for Assessing and Managing Community Forests

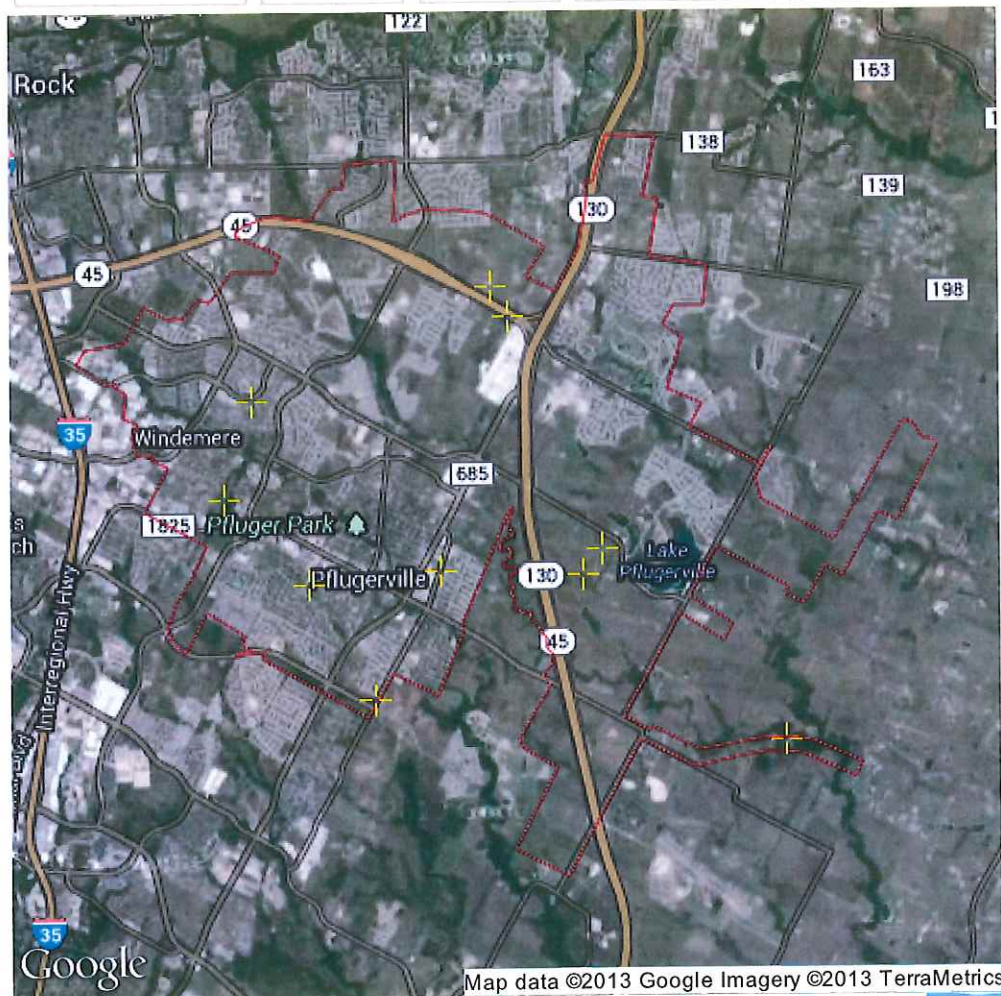
How it works

Report

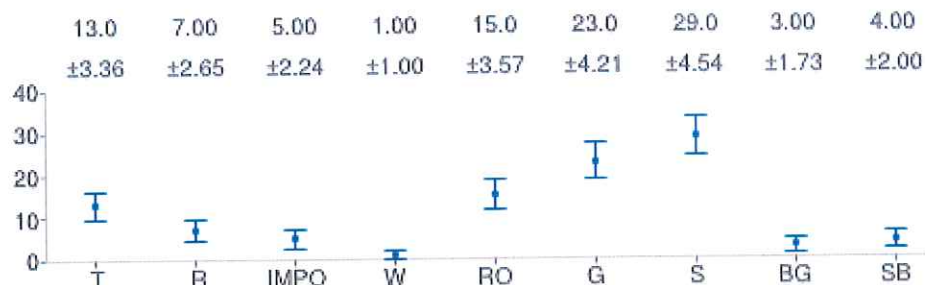
Export

Start Over

Exit



i-Tree Canopy

Percent Cover ($\pm$ SE)

Id	Cover Class	Latitude	Longitude



i-Tree

Tools for Assessing and Managing
Community Forests

i-Tree Canopy

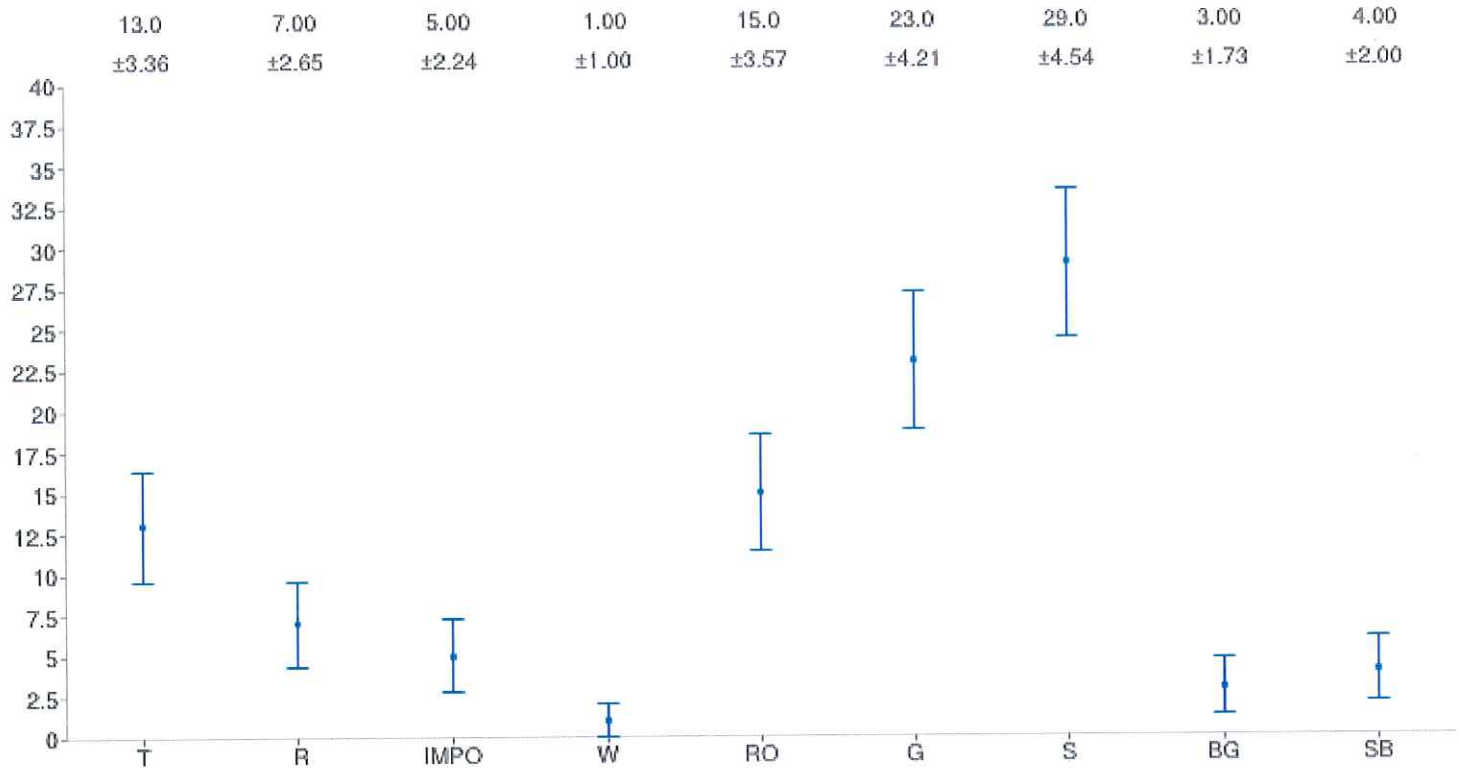
Cover Report - 7/31/13

Current City Limits

100 Random points selected



Percent Cover ($\pm$ SE)



Cover Class	Description	Abbr.	Points	% Cover
Tree	Tree	T	13	13.0 $\pm$ 3.36
Road	Road	R	7	7.00 $\pm$ 2.65
Impervious - Other	Sidewalk, alley	IMPO	5	5.00 $\pm$ 2.24
Water	Water	W	1	1.00 $\pm$ 1.00
Roof	Roofs	RO	15	15.0 $\pm$ 3.57
Grass	Grass	G	23	23.0 $\pm$ 4.21
Soil	Soil	S	29	29.0 $\pm$ 4.54
Bare Ground	Bare Ground (bedrock, or very compact soil)	BG	3	3.00 $\pm$ 1.73
Shrub or Bush	Shrub, bush	SB	4	4.00 $\pm$ 2.00

About i-Tree Canopy

The concept and prototype of this program were developed by David J. Nowak, Jeffery T. Walton and Eric J. Greenfield (USDA Forest Service). The current version of this program was developed and adapted to i-Tree by David Ellingsworth, Mike Binkley, and Scott Maco (The Davey Tree Expert Company).

Limitations of i-Tree Canopy

The accuracy of the analysis depends upon the ability of the user to correctly classify each point into its correct class. As the number of points increase, the precision of the estimate will increase as the standard error of the estimate will decrease. If too few points are classified, the standard error will be too high to have any real certainty of the estimate.

A Cooperative Initiative Between:



Arbor Day Foundation™



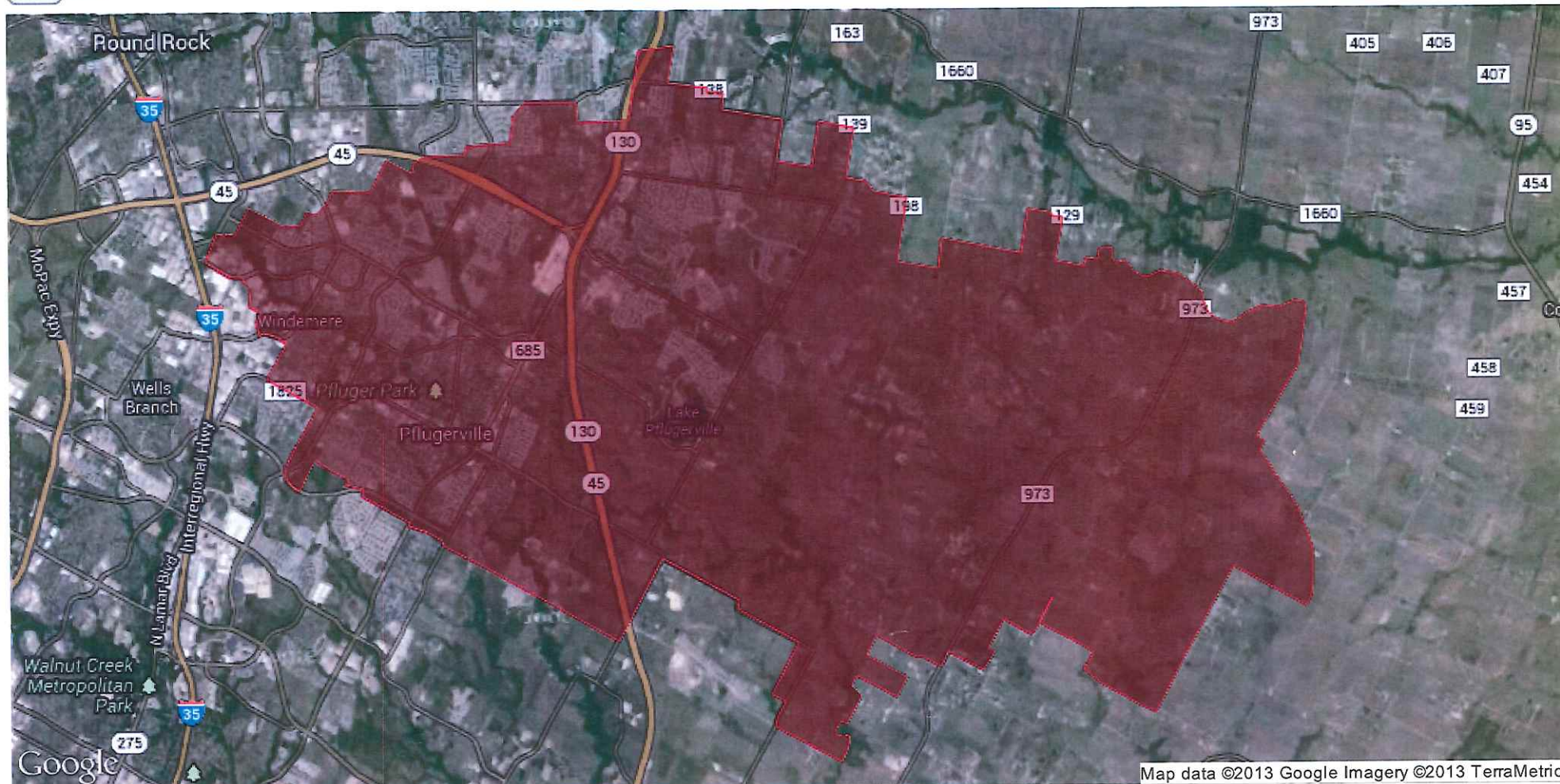


i-Tree

Tools for Assessing and Managing
Community Forests

i-Tree Canopy

Define Project Area



Lat:30.5128786 Lng:-97.48100281



i-Tree

Tools for Assessing and Managing
Community Forests

i-Tree Canopy

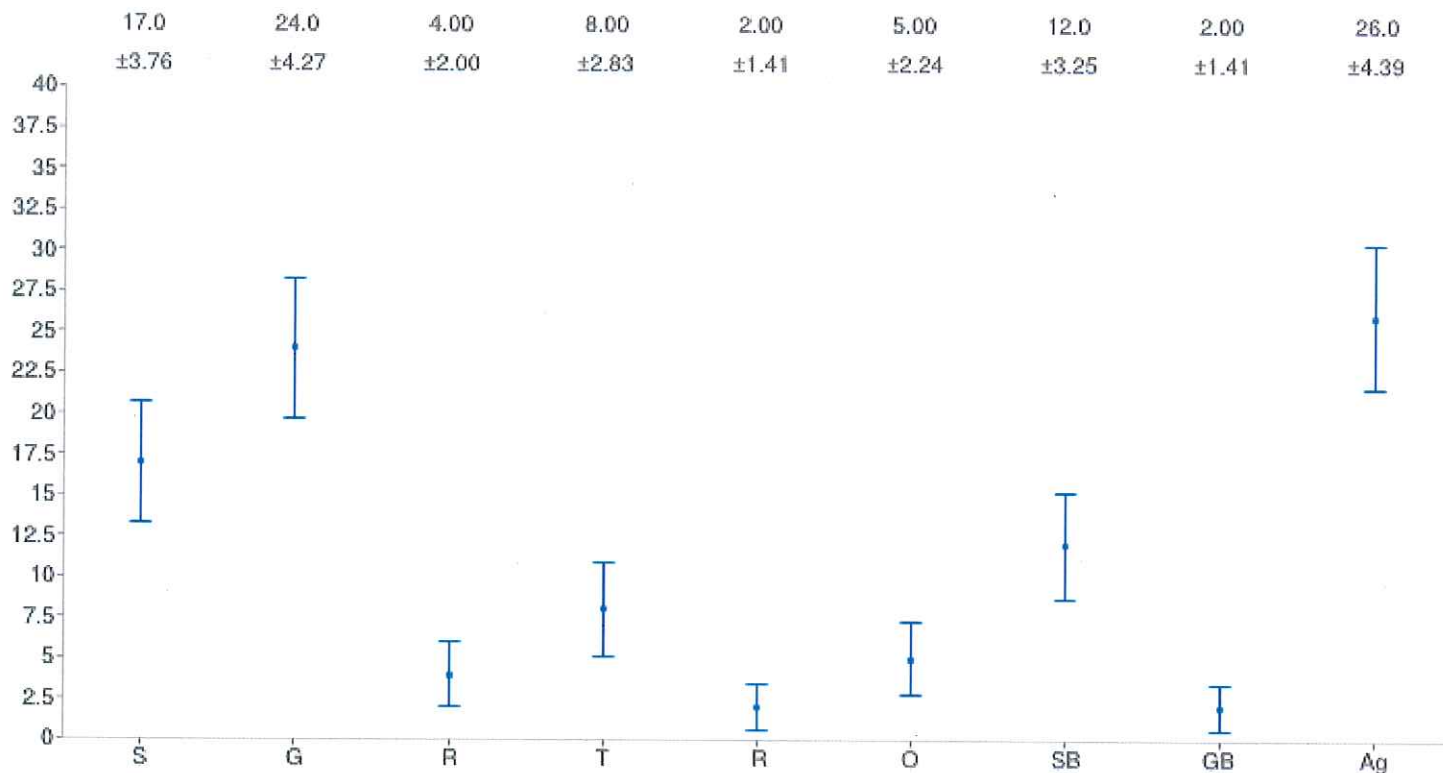
Cover Report - 7/31/13

ETJ

100 Random Points Selected



Percent Cover ($\pm$ SE)



Cover Class	Description	Abbr.	Points	% Cover
Soil	Soil	S	17	17.0 $\pm$ 3.76
Grass	Grass	G	24	24.0 $\pm$ 4.27
Roof	Impervious - Roof	RO	4	4.00 $\pm$ 2.00
Tree	Tree	T	8	8.00 $\pm$ 2.83
Road	Road - Impervious	R	2	2.00 $\pm$ 1.41
Other - Impervious	Sidewalk, Alley, Driveway	O	5	5.00 $\pm$ 2.24
Shrub/Bush	Shrub or Bush	SB	12	12.0 $\pm$ 3.25
Bare Ground	Bedrock, very compact soil	GB	2	2.00 $\pm$ 1.41
Agriculture	Agriculture	Ag	26	26.0 $\pm$ 4.39

About i-Tree Canopy

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A Cooperative Initiative Between:



Arbor Day Foundation™



Current City Limits

Tree Canopy 4.1%

Tree Canopy Ecosystem Services Benefits
Pollution Removal: Total Carbon Storage
Executive Summary of Estimates
Date: 8/2/2013 12:04:31 PM

LAND COVER

	Area		Impervious		Tree Canopy	
	acres	%	acres	%	acres	%
Entire Area	18,159.40		100 1,833.60		10.1 753.1	4.1
Developed	5,648.80	31.1	1,829.30		32.4 84.2	1.5
Open Spa	2,127.90	11.7	127.6		6 47.9	2.3
Low Inter	1,797.20	9.9	626		34.8 32.2	1.8
Medium I	1,513.80	8.3	894.5		59.1 4.1	0.3
High Inter	209.9	1.2	181.1		86.3 0	0
Forested, /	979.2	5.4	0		0 277	28.3
Deciduou	404.3	2.2	0		0 200.8	49.7
Evergree	80.3	0.4	0		0 47.6	59.3
Shrub/Sci	494.6	2.7	0		0 28.6	5.8
Wetlands,	480.8	2.6	0		0 272.3	56.6
Woody W	480.8	2.6	0		0 272.3	56.6
Agriculture	4,260.20	23.5	0.2		0 5.6	0.1
Cultivate	4,094.10	22.5	0.2		0 5.6	0.1
Pasture/t	166.1	0.9	0		0 0	0
Miscellane	6,779.30	37.3	4.2		0.1 114	1.7
Barren La	23.6	0.1	0		0 0	0
Grasslanc	6,755.70	37.2	4.2		0.1 114	1.7
Water	11.1	0.1	n/a	n/a	n/a	n/a

CARBON DIOXIDE

	Annual Sequestration	
	CO ₂ stored each year	
	short tons	\$
Entire Area	3,571.40	69,377.10*
Developed	399.2	7,754.70
Open Spa	227.3	4,416.10
Low Inter	152.5	2,962.60
Medium I	19.4	376
Forested, /	1,313.60	25,517.40
Deciduou	952.3	18,499.70
Evergree	225.6	4,382.90
Shrub/Sci	135.6	2,634.80
Wetlands,	1,291.20	25,081.80
Woody W	1,291.20	25,081.80
Agriculture	26.6	517.5
Crops	26.6	517.5
Miscellane	540.8	10,505.70
Grasslanc	540.8	10,505.70

	Total Storage	
	total accumulated CO ₂	
	short tons	\$
Entire Area	78,325.40	1,521,512.30*
Developed	8,754.90	170,068.40
Open Spa	4,985.70	96,849.50
Low Inter	3,344.80	64,973.70
Medium I	424.5	8,245.30
Forested, /	28,808.60	559,623.00
Deciduou	20,885.80	405,717.20
Evergree	4,948.20	96,121.50
Shrub/Sci	2,974.70	57,784.40
Wetlands,	28,316.90	550,070.20
Woody W	28,316.90	550,070.20
Agriculture	584.3	11,350.20
Crops	584.3	11,350.20
Miscellane	11,860.70	230,400.50
Grasslanc	11,860.70	230,400.50

AIR POLLUTION

	CO	
	Carbon Monoxide	
	pounds	\$
Entire Area	1,863.60	1,351.50
Developed	208.3	151.1
Open Spa	118.6	86
Low Inter	79.6	57.7
Medium I	10.1	7.3
Forested, /	685.4	497.1
Deciduou	496.9	360.4
Evergree	117.7	85.4
Shrub/Sci	70.8	51.3
Wetlands,	673.7	488.6
Woody W	673.7	488.6
Agriculture	13.9	10.1
Crops	13.9	10.1
Miscellane	282.2	204.7
Grasslanc	282.2	204.7

Tree Canopy Ecosystem Services Benefits

Current City Limits



Modeling Scenario: 20% average canopy across the entire region.

Executive Summary of Estimates

More than just beauty and shade, trees work for us all every day to clean the air we breathe.

Date: 8/2/2013 11:27:46 AM

LAND COVER

	Area		Impervious		Tree Canopy	
	acres	%	acres	%	acres	%
Entire Area	18,15...	100	1,833.6	10.1	3,573.6	19.7
+ Developed, All Classes	5,648.8	31.1	1,829.3	32.4	772.2	13.7
+ Forested, All Classes	979.2	5.4	0.0	0.0	404.9	41.3
+ Wetlands, All Classes	480.8	2.6	0.0	0.0	310.8	64.6
+ Agriculture, All Classes	4,260.2	23.5	0.2	0.0	771.4	18.1
+ Miscellaneous, All Classes	6,779.3	37.3	4.2	0.1	1,314.2	19.4
Water	11.1	0.1	n/a	n/a	n/a	n/a

CARBON DIOXIDE

	Annual Sequestration		Total Storage	
	CO2 stored each year		total accumulated CO2	
	short tons	\$	short tons	\$
Entire Area	16,94...	329,227.0	371,69...	7,220,289.7
+ Developed, All Classes	3,662.4	71,144.1	80,320.2	1,560,262.9
+ Forested, All Classes	1,920.2	37,300.3	42,111.3	818,035.0
+ Wetlands, All Classes	1,474.2	28,637.4	32,331.0	628,047.6
+ Agriculture, All Classes	3,658.6	71,071.1	80,237.9	1,558,663.3
+ Miscellaneous, All Classes	6,232.7	121,074.1	136,690.2	2,655,280.9

AIR POLLUTION

	TOTAL		CO		NO2		O3		SO2		PM10	
	all pollutants		Carbon Monoxide		Nitrogen Dioxide		Ozone		Sulfur Dioxide		Particulate Matter <10 microns	
	total pounds	total \$	pounds	\$	pounds	\$	pounds	\$	pounds	\$	pounds	\$
Entire Area	295,0...	1,235,310.0	8,843.6	6,413.6	35,797.1	182,784.5	138,300.9	706,181.3	19,556.1	24,446.4	92,541.2	315,484.2
+ Developed, All Classes	63,756.2	266,943.3	1,911.0	1,385.9	7,735.6	39,498.7	29,886.0	152,601.7	4,226.0	5,282.7	19,997.6	68,174.3
+ Forested, All Classes	33,426.8	139,956.5	1,001.9	726.6	4,055.7	20,708.9	15,669.0	80,008.0	2,215.6	2,769.7	10,484.6	35,743.3
+ Wetlands, All Classes	25,663.6	107,451.9	769.2	557.9	3,113.8	15,899.3	12,029.9	61,426.3	1,701.1	2,126.4	8,049.6	27,442.0
+ Agriculture, All Classes	63,690.8	266,669.6	1,909.1	1,384.5	7,727.6	39,458.2	29,855.4	152,445.2	4,221.6	5,277.3	19,977.1	68,104.4
+ Miscellaneous, All Classes	108,501.3	454,288.6	3,252.2	2,358.6	13,164.5	67,219.5	50,860.5	259,700.1	7,191.8	8,990.2	34,032.3	116,020.2

Estimates generated with i-Tree Vue for tree canopy only. For more information, visit www.itreetools.org.

Tree Canopy Ecosystem Services Benefits

Current City Limits



Modeling Scenario: 40% average canopy across the entire region.

Executive Summary of Estimates

More than just beauty and shade, trees work for us all every day to clean the air we breathe.

Date: 8/5/2013 2:22:46 PM

LAND COVER

	Area		Impervious		Tree Canopy	
	acres	%	acres	%	acres	%
Entire Area	18,15...	100	1,833.6	10.1	7,277.3	40.1
+ Developed, All Classes	5,648.8	31.1	1,829.3	32.4	1,642.9	29.1
+ Forested, All Classes	979.2	5.4	0.0	0.0	571.3	58.3
+ Wetlands, All Classes	480.8	2.6	0.0	0.0	359.4	74.8
+ Agriculture, All Classes	4,260.2	23.5	0.2	0.0	1,792.4	42.1
+ Miscellaneous, All Classes	6,779.3	37.3	4.2	0.1	2,911.2	42.9
Water	11.1	0.1	n/a	n/a	n/a	n/a

CARBON DIOXIDE

	Annual Sequestration		Total Storage	
	CO2 stored each year		total accumulated CO2	
	short tons	\$	short tons	\$
Entire Area	34,51...	670,432.7	756,90...	14,703,282.4
+ Developed, All Classes	7,791.3	151,351.0	170,872.2	3,319,284.2
+ Forested, All Classes	2,709.5	52,634.1	59,422.9	1,154,321.1
+ Wetlands, All Classes	1,704.7	33,114.7	37,385.9	726,240.6
+ Agriculture, All Classes	8,500.7	165,131.2	186,429.8	3,621,497.3
+ Miscellaneous, All Classes	13,806.7	268,201.6	302,794.2	5,881,939.3

AIR POLLUTION

	TOTAL		CO		NO2		O3		SO2		PM10	
	all pollutants		Carbon Monoxide		Nitrogen Dioxide		Ozone		Sulfur Dioxide		Particulate Matter <10 microns	
	total pounds	total \$	pounds	\$	pounds	\$	pounds	\$	pounds	\$	pounds	\$
Entire Area	600,8...	2,515,565.5	18,008.9	13,060.6	72,896.7	372,219.4	281,633.8	1,438,056.3	39,823.8	49,782.2	188,449.4	642,447.0
+ Developed, All Classes	135,634.2	567,892.1	4,065.5	2,948.5	16,456.5	84,029.0	63,579.2	324,643.0	8,990.3	11,238.4	42,542.7	145,033.2
+ Forested, All Classes	47,168.4	197,491.3	1,413.8	1,025.4	5,723.0	29,222.1	22,110.4	112,898.5	3,126.5	3,908.3	14,794.7	50,437.0
+ Wetlands, All Classes	29,676.0	124,251.5	889.5	645.1	3,600.6	18,385.1	13,910.8	71,030.0	1,967.0	2,458.9	9,308.1	31,732.4
+ Agriculture, All Classes	147,983.4	619,597.2	4,435.7	3,216.9	17,954.9	91,679.6	69,367.9	354,201.0	9,808.8	12,261.6	46,416.1	158,238.1
+ Miscellaneous, All Classes	240,350.6	1,006,333.4	7,204.3	5,224.8	29,161.8	148,903.6	112,665.5	575,283.8	15,931.2	19,915.0	75,387.8	257,006.2

Estimates generated with i-Tree Vue for tree canopy only. For more information, visit www.treetools.org.







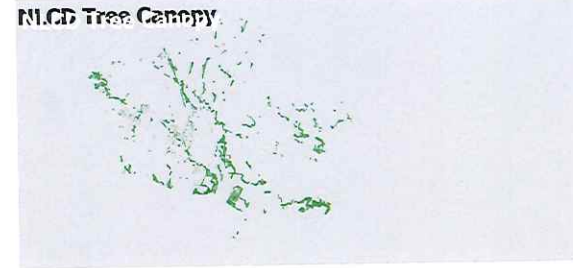


Pflugerville - Current

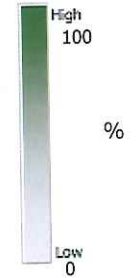
2001

Land Cover

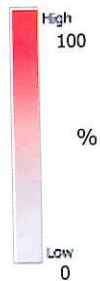
- 11 Open Water
- 21 Dev. Open
- 22 Dev. Low
- 23 Dev. Med
- 24 Dev. High
- 31 Barren
- 41 For. Deciduous
- 42 For. Evergreen
- 43 For. Mixed
- 52 Shrub / Scrub
- 71 Grassland
- 81 Pasture
- 82 Crops
- 90 Wet. Woody
- 95 Wet. Herbaceous



Tree Canopy



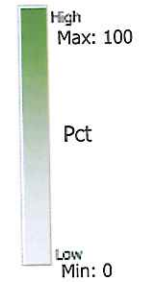
Impervious Cover



Map Output: Canopy Green Space - percent



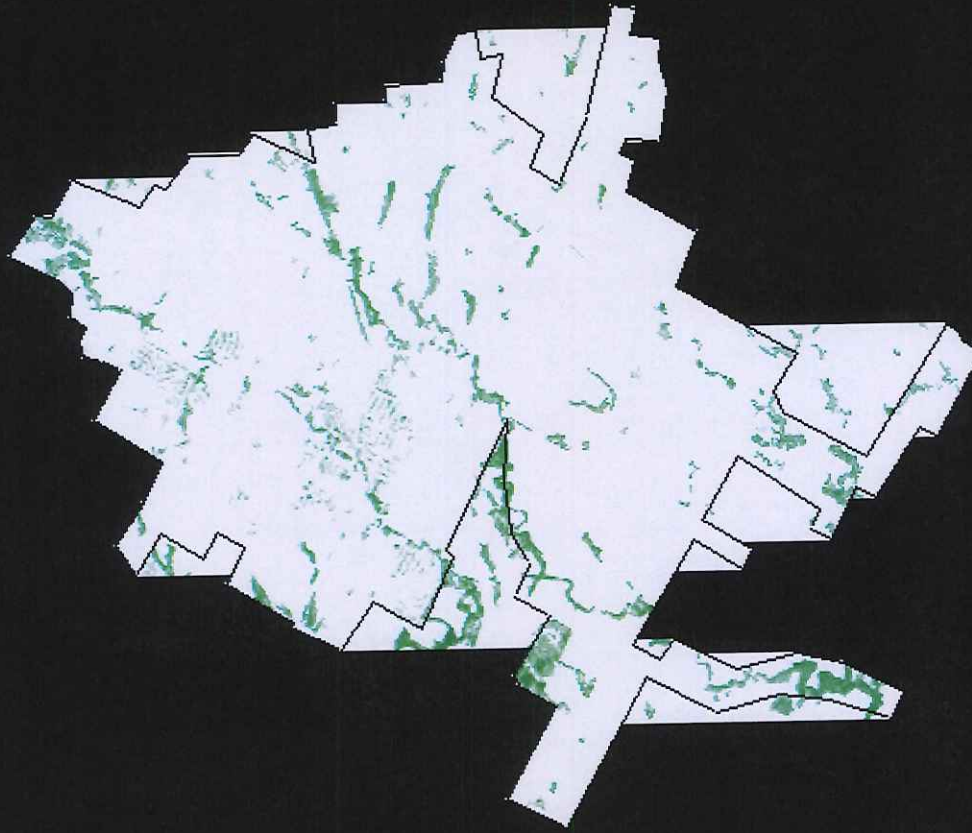
Analysis



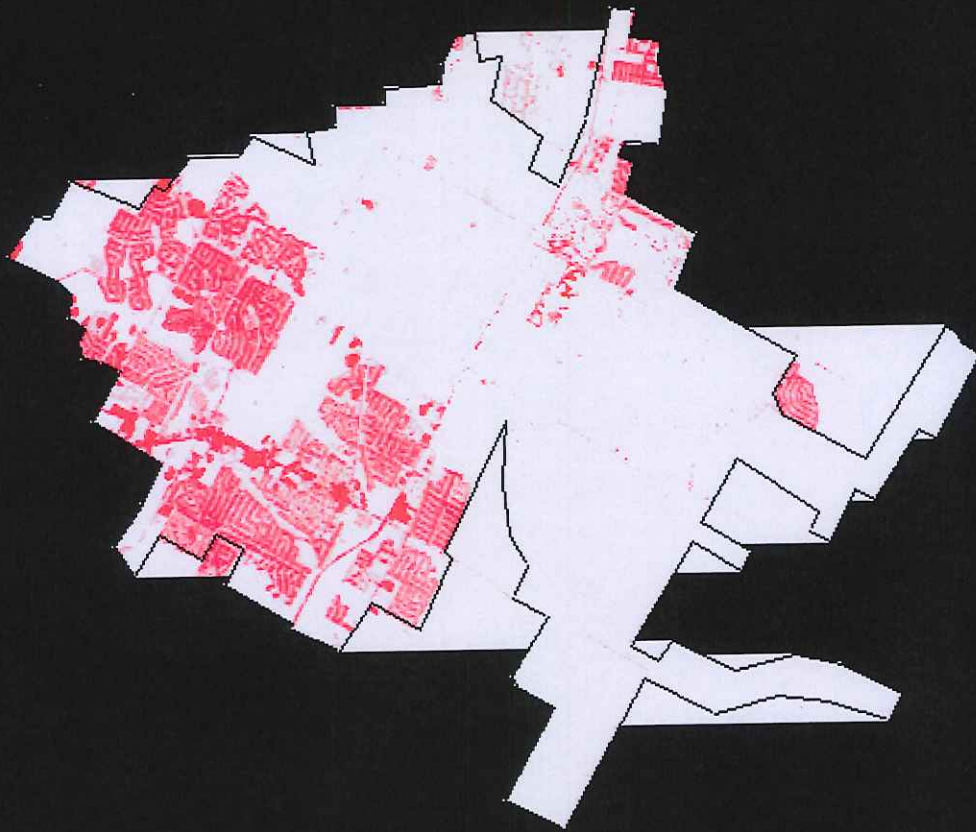
Land Cover - Current



Tree Canopy - Current



Impervious Surfaces - Current





Pflugerville- ETJ

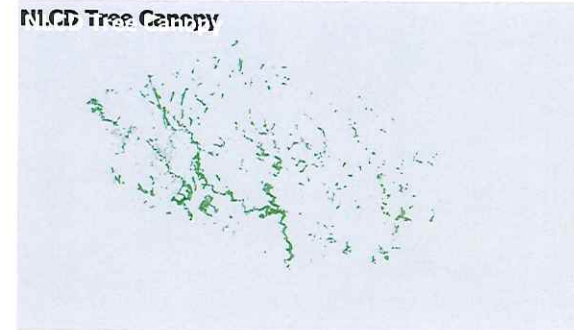
2001

Land Cover

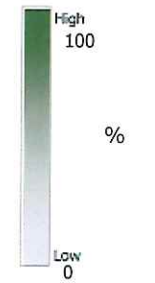
- 11 Open Water
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- 95 Wet. Herbaceous



NLCD Tree Canopy



Tree Canopy



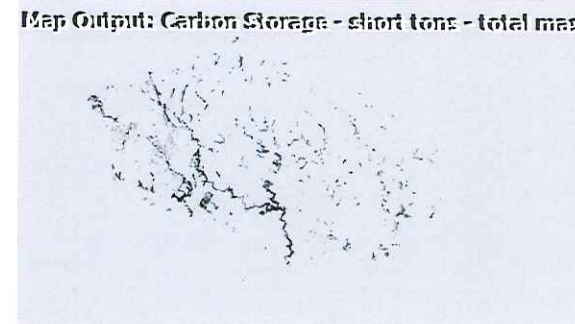
Impervious Cover



NLCD Impervious Cover



Map Output: Carbon Storage - short tons - total mass



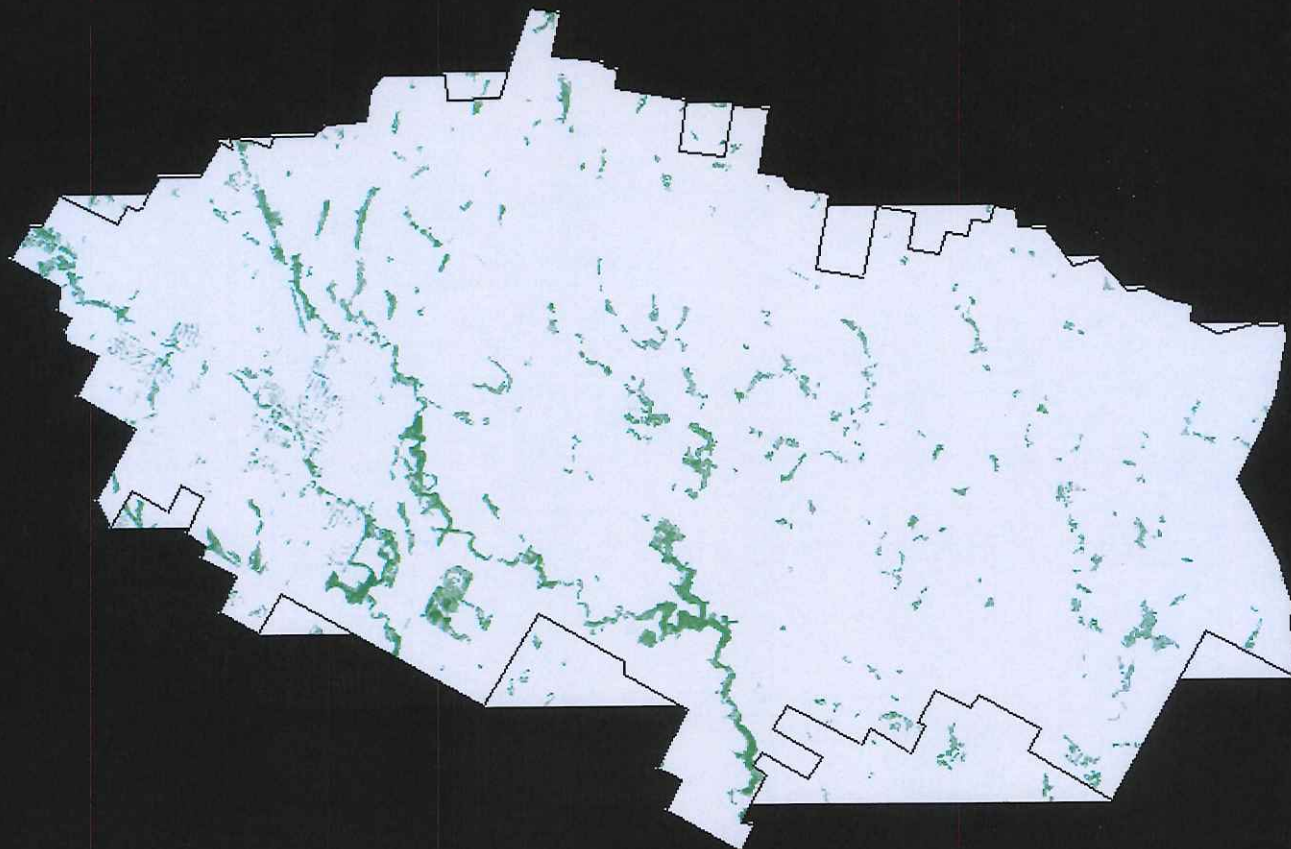
Analysis



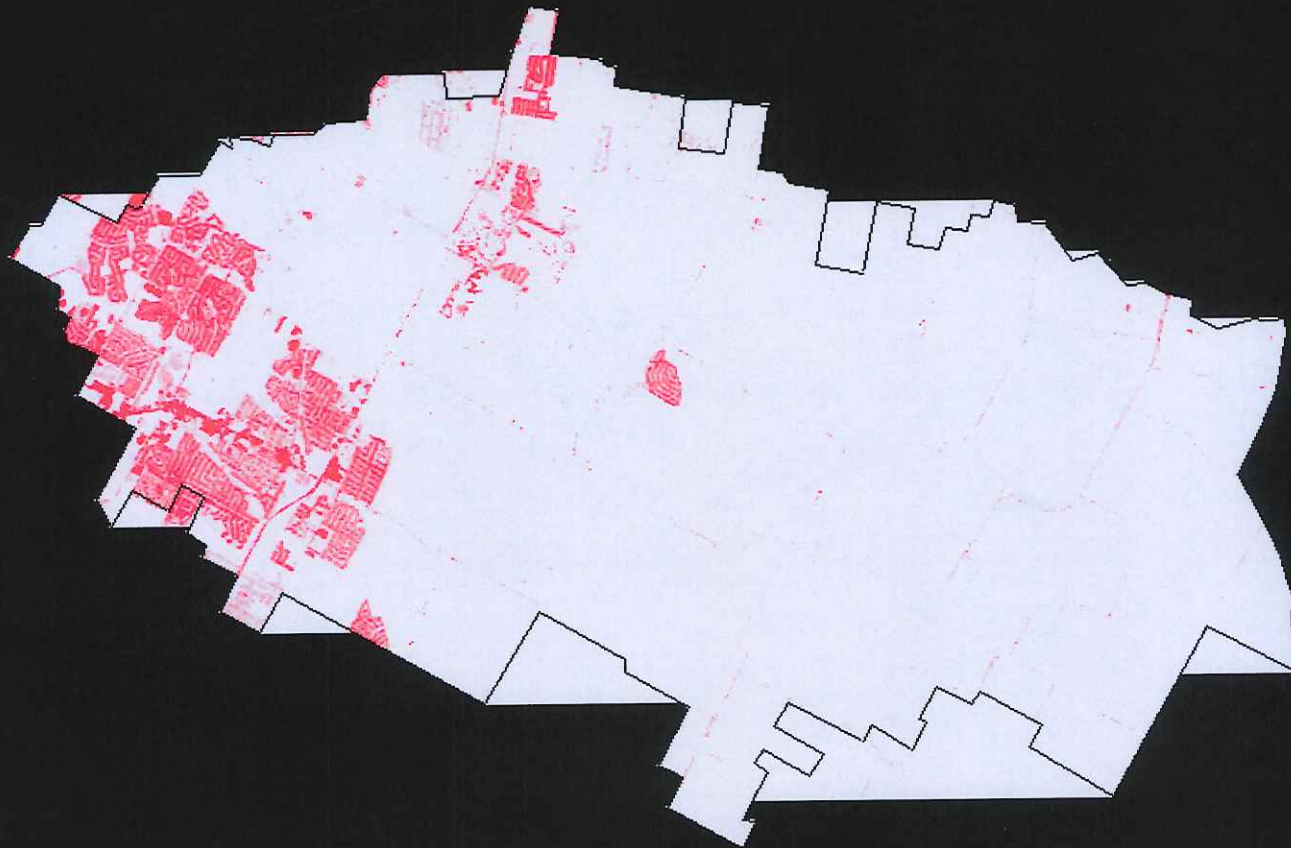
Land Cover - EJJ



Tree Canopy
~~Land~~ ~~Cover~~ - ETS



Impervious Surfaces - ETJ



ETJ Limits

Tree Canopy 2.7%

Tree Canopy Ecosystem Services Benefits
Pollution Removal: Total Carbon Storage
Executive Summary of Estimates
Date: 8/5/2013 11:52:11 AM

LAND COVER

	Area		Impervious		Tree Canopy	
	acres	%	acres	%	acres	%
Entire Area	43914	100	2003	5	1196	3
Developed, All Classes	7271	17	1998	28	97	1
Open Space	3521	8	194	6	61	2
Low Intensity	1938	4	675	35	32	2
Medium Intensity	1602	4	947	59	4	0
High Intensity	210	1	181	86	0	0
Forested, All Classes	3588	8	0	0	507	14
Deciduous	705	2	0	0	350	50
Evergreen	124	0	0	0	71	57
Shrub/Scrub	2760	6	0	0	87	3
Wetlands, All Classes	713	2	0	0	403	57
Woody Wetlands	713	2	0	0	403	57
Agriculture, All Classes	16969	39	0.2	0	16	0
Cultivated Crops	14450	33	0.2	0	13	0
Pasture/Hay	2519	6	0	0	3	0
Miscellaneous, All Classes	15286	35	5.5	0	173	1
Barren Land (Rock/Sand/Clay)	24	0	0	0	0	0
Grassland/Herbaceous	15262	35	5.5	0	173	1
Water	88	0	n/a	n/a	n/a	n/a

CARBON DIOXIDE

	Annual Sequestration		Total Storage		AIR POLLUT
	CO2 stored each year		total accumulated CO2		CO Carbon
	short tons	\$	short tons	\$	pounds
Entire Area	5674	110211*	124425	2417031*	2960
Developed, All Classes	462	8976	10134	196849	241
Open Space	289	5620	6345	123257	151
Low Intensity	153	2973	3356	65189	80
Medium Intensity	20	383	433	8403	10
Forested, All Classes	2403	46677	52697	1023673	1254
Deciduous	1657	32196	36348	706084	865
Evergreen	334	6491	7329	142363	174
Shrub/Scrub	411	7990	9020	175227	215
Wetlands, All Classes	1911	37122	41909	814112	997
Woody Wetlands	1911	37122	41909	814112	997
Agriculture, All Classes	77	1485	1677	32577	40
Crops	63	1219	1376	26735	33
Pasture/Hay	14	266	301	5841	7
Miscellaneous, All Classes	821	15951	18008	349820	429
Grassland/Herbaceous	821	15951	18008	349820	429

Tree Canopy Ecosystem Services Benefits

Modeling Scenario: 20% average canopy across the entire region.

Executive Summary of Estimates

More than just beauty and shade, trees work for us all every day to clean the air we breathe.

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ETS Limits



LAND COVER

	Area		Impervious		Tree Canopy	
	acres	%	acres	%	acres	%
Entire Area	43,91...	100	2,003.4	4.6	8,793.2	20.1
+ Developed, All Classes	7,270.8	16.6	1,997.6	27.5	1,458.0	20.1
+ Forested, All Classes	3,588.1	8.2	0.0	0.0	728.5	20.3
+ Wetlands, All Classes	712.8	1.6	0.0	0.0	149.7	21.0
+ Agriculture, All Classes	16,969.2	38.6	0.2	0.0	3,394.3	20.0
+ Miscellaneous, All Classes	15,285.9	34.8	5.5	0.0	3,062.7	20.0
Water	87.6	0.2	n/a	n/a	n/a	n/a

CARBON DIOXIDE

	Annual Sequestration		Total Storage	
	CO2 stored each year		total accumulated CO2	
	short tons	\$	short tons	\$
Entire Area	41,70...	810,090.9	914,57...	17,766,131.7
+ Developed, All Classes	6,914.6	134,320.6	151,645.2	2,945,788.8
+ Forested, All Classes	3,455.2	67,118.9	75,775.9	1,471,986.7
+ Wetlands, All Classes	709.9	13,789.6	15,568.2	302,419.8
+ Agriculture, All Classes	16,097.7	312,707.0	353,039.9	6,857,987.2
+ Miscellaneous, All Classes	14,525.0	282,154.9	318,547.2	6,187,949.3

AIR POLLUTION

	TOTAL		CO		NO2		O3		SO2		PM10	
	all pollutants		Carbon Monoxide		Nitrogen Dioxide		Ozone		Sulfur Dioxide		Particulate Matter <10 microns	
	total pounds	total \$	pounds	\$	pounds	\$	pounds	\$	pounds	\$	pounds	\$
Entire Area	725,9...	3,039,584.3	21,760.3	15,781.3	88,081.9	449,756.6	340,301.1	1,737,618.6	48,119.5	60,152.3	227,705.4	776,275.5
+ Developed, All Classes	120,372.4	503,991.2	3,608.1	2,616.7	14,604.8	74,573.8	56,425.1	288,113.2	7,978.7	9,973.8	37,755.7	128,713.7
+ Forested, All Classes	60,149.1	251,840.2	1,802.9	1,307.5	7,297.9	37,263.9	28,195.2	143,967.8	3,986.9	4,983.8	18,866.2	64,317.2
+ Wetlands, All Classes	12,357.7	51,740.6	370.4	268.6	1,499.4	7,655.9	5,792.7	29,578.2	819.1	1,023.9	3,876.1	13,214.0
+ Agriculture, All Classes	280,234.3	1,173,324.1	8,399.8	6,091.8	34,000.9	173,612.7	131,361.2	670,746.2	18,574.8	23,219.7	87,897.6	299,653.7
+ Miscellaneous, All Classes	252,854.9	1,058,688.2	7,579.1	5,496.6	30,678.9	156,650.4	118,527.0	605,213.1	16,760.0	20,951.1	79,309.9	270,377.0

Estimates generated with i-Tree Vue for tree canopy only. For more information, visit www.treestools.org.

Tree Canopy Ecosystem Services Benefits

Modeling Scenario: 40% average canopy across the entire region.

Executive Summary of Estimates

More than just beauty and shade, trees work for us all every day to clean the air we breathe.

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ETS Limits



LAND COVER

	Area		Impervious		Tree Canopy	
	acres	%	acres	%	acres	%
Entire Area	43,91...	100	2,003.4	4.6	17,463.3	39.8
+ Developed, All Classes	7,270.8	16.6	1,997.6	27.5	2,181.0	30.0
+ Forested, All Classes	3,588.1	8.2	0.0	0.0	1,740.6	48.5
+ Wetlands, All Classes	712.8	1.6	0.0	0.0	527.4	74.0
+ Agriculture, All Classes	16,969.2	38.6	0.2	0.0	6,797.3	40.1
+ Miscellaneous, All Classes	15,285.9	34.8	5.5	0.0	6,217.0	40.7
Water	87.6	0.2	n/a	n/a	n/a	n/a

CARBON DIOXIDE

	Annual Sequestration		Total Storage	
	CO2 stored each year		total accumulated CO2	
	short tons	\$	short tons	\$
Entire Area	82,82...	1,608,838.2	1,816,...	35,283,485.2
+ Developed, All Classes	10,343.5	200,927.9	226,843.5	4,406,555.6
+ Forested, All Classes	8,254.7	160,351.4	181,033.5	3,516,672.1
+ Wetlands, All Classes	2,501.2	48,587.2	54,854.0	1,065,568.6
+ Agriculture, All Classes	32,236.8	626,216.0	706,985.3	13,733,565.7
+ Miscellaneous, All Classes	29,484.7	572,755.6	646,629.5	12,561,123.0

AIR POLLUTION

	TOTAL		CO		NO2		O3		SO2		PM10	
	all pollutants		Carbon Monoxide		Nitrogen Dioxide		Ozone		Sulfur Dioxide		Particulate Matter <10 microns	
	total pounds	total \$	pounds	\$	pounds	\$	pounds	\$	pounds	\$	pounds	\$
Entire Area	1,441,...	6,036,605.6	43,215.9	31,341.6	174,930.3	893,215.4	675,837.0	3,450,905.4	95,565.1	119,462.3	452,222.3	1,541,680.9
+ Developed, All Classes	180,062.8	753,912.0	5,397.2	3,914.3	21,847.1	111,553.7	84,405.3	430,983.7	11,935.1	14,919.7	56,478.1	192,540.6
+ Forested, All Classes	143,699.9	601,662.8	4,307.3	3,123.8	17,435.1	89,025.9	67,360.0	343,948.5	9,524.9	11,906.7	45,072.6	153,657.9
+ Wetlands, All Classes	43,541.7	182,306.8	1,305.1	946.5	5,282.9	26,975.3	20,410.4	104,218.1	2,886.1	3,607.8	13,657.2	46,559.1
+ Agriculture, All Classes	561,187.6	2,349,657.8	16,821.2	12,199.2	68,089.0	347,670.6	263,059.4	1,343,213.0	37,197.3	46,498.9	176,020.7	600,076.1
+ Miscellaneous, All Classes	513,278.6	2,149,066.2	15,385.1	11,157.8	62,276.2	317,989.8	240,601.9	1,228,542.1	34,021.7	42,529.3	160,993.7	548,847.2

Estimates generated with i-Tree Vue for tree canopy only. For more information, visit www.treetools.org.