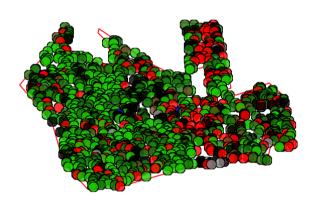
6/2/2021 i-Tree Canopy

i-Tree Canopy v7.1

Cover Assessment and Tree Benefits Report

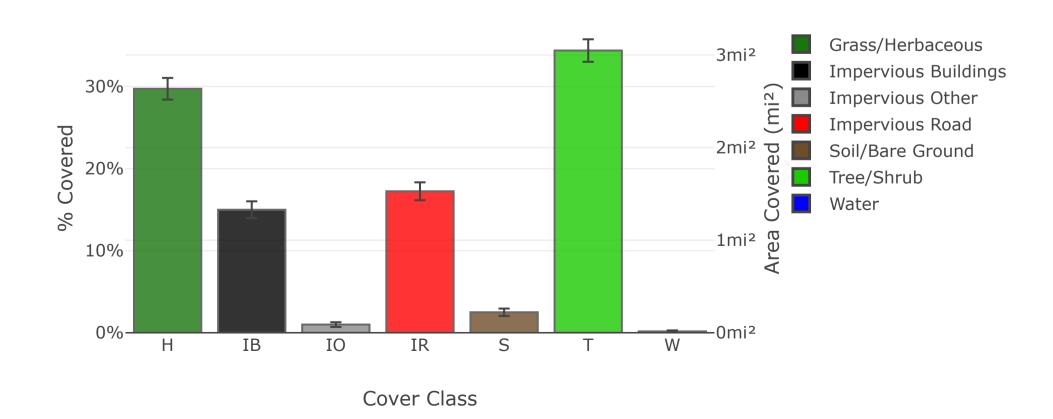
Estimated using random sampling statistics on 6/2/2021





Google

Land Cover



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Abbr.	Cover Class	Description	ıts	% Cover ± SE	Area (mi²) ± SE	
Н	Grass/Herbaceous	35	57	29.73 ± 1.32	2.63 ± 0.12	
IB	Impervious Buildings	18	80	14.99 ± 1.03	1.33 ± 0.09	
Ю	Impervious Other	1	12	1.00 ± 0.29	0.09 ± 0.03	
IR	Impervious Road	20	07	17.24 ± 1.09	1.53 ± 0.10	
S	Soil/Bare Ground	3	30	2.50 ± 0.45	0.22 ± 0.04	
Т	Tree/Shrub	41	13	34.39 ± 1.37	3.05 ± 0.12	
W	Water		2	0.17 ± 0.12	0.01 ± 0.01	
Total		120	01	100.00	8.86	

Tree Benefit Estimates: Carbon (English units)

Description	Carbon (kT)	±SE	CO ₂ Equiv. (kT)	±SE	Value (USD)	±SE
Sequestered annually in trees	2.66	±0.11	9.76	±0.39	\$453,928	±18,093
Stored in trees (Note: this benefit is not an annual rate)	66.84	±2.66	245.08	±9.77	\$11,399,831	±454,376

Currency is in USD and rounded. Standard errors of removal and benefit amounts are based on standard errors of sampled and classified points. Amount sequestered is based on 0.874 kT of Carbon, or 3.203 kT of CO_2 , per mi²/yr and rounded. Amount stored is based on 21.940 kT of Carbon, or 80.446 kT of CO_2 , per mi² and rounded. Value (USD) is based on \$170,550.73/kT of Carbon, or \$46,513.84/kT of CO_2 and rounded. (English units: kT = kilotons (1,000 tons), mi² = square miles)

Tree Benefit Estimates: Air Pollution (English units)

Abbr.	Description	Amount (T)	±SE	Value (USD)	±SE
CO	Carbon Monoxide removed annually	1.10	±0.04	\$1,469	±59
NO2	Nitrogen Dioxide removed annually	6.08	±0.24	\$2,659	±106
О3	Ozone removed annually	47.00	±1.87	\$122,102	±4,867
SO2	Sulfur Dioxide removed annually	2.99	±0.12	\$400	±16
PM2.5	Particulate Matter less than 2.5 microns removed annually	2.40	±0.10	\$255,622	±10,189
PM10*	Particulate Matter greater than 2.5 microns and less than 10 microns removed annually	13.34	±0.53	\$83,621	±3,333
Total		72.92	±2.91	\$465,872	±18,569

Currency is in USD and rounded. Standard errors of removal and benefit amounts are based on standard errors of sampled and classified points. Air Pollution Estimates are based on these values in T/mi²/yr @ \$/T/yr and rounded:

CO $0.362 \otimes \$1,333.50 \mid NO2 1.997 \otimes \$436.94 \mid O3 15.428 \otimes \$2,597.84 \mid SO2 0.982 \otimes \$133.85 \mid PM2.5 0.788 \otimes \$106,459.48 \mid PM10* 4.379 \otimes \$6,268.44 (English units: T = tons (2,000 pounds), mi² = square miles)$

Tree Benefit Estimates: Hydrological (English units)

Abbr.	Benefit	Amount (Kgal)	±SE	Value (USD)	±SE
AVRO	Avoided Runoff	16.15	±0.64	\$144	±6
Е	Evaporation	362.69	±14.46	N/A	N/A
1	Interception	365.05	±14.55	N/A	N/A
Т	Transpiration	343.44	±13.69	N/A	N/A
PE	Potential Evaporation	2,332.52	±92.97	N/A	N/A
PET	Potential Evapotranspiration	1,923.72	±76.68	N/A	N/A

Currency is in USD and rounded. Standard errors of removal and benefit amounts are based on standard errors of sampled and classified points. Hydrological Estimates are based on these values in Kgal/mi²/yr @ \$/Kgal/yr and rounded:

AVRO 5.301 @ \$8.94 | E 119.049 @ N/A | I 119.823 @ N/A | T 112.729 @ N/A | PE 765.624 @ N/A | PET 631.442 @ N/A (English units: Kgal = thousands of gallons, mi² = square miles)

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.















Additional support provided by:



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