

CHAPTER 16

TRANSPORTATION INTEGRITY

PART 2





A PRODUCT OF THE
Western Piedmont
Council of Governments

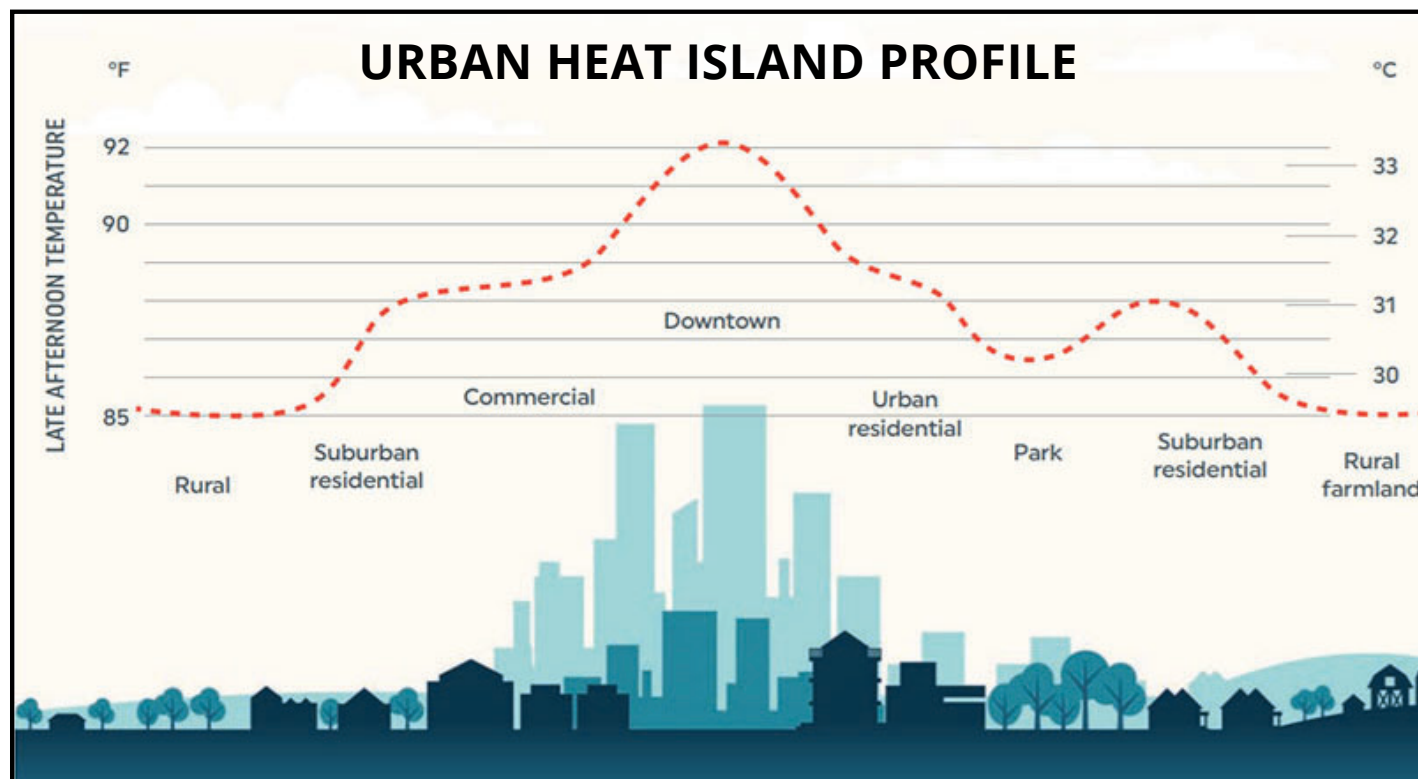
**Greater Hickory Metropolitan
Planning Organization**

1880 2nd Ave NW | Hickory, NC 28601
828.322.9191 | www.wpcog.org

Heat Islands, Resilience & EJ Populations

A heat island occurs when towns or cities experience higher temperatures than nearby rural areas. Transportation facilities (roads, parking lots, etc.) contribute to the heat island effect because heat from the sun becomes absorbed into pavement and concrete. This results in higher daytime temperatures and less cooling overnight. Generally, areas with more impervious surface are warmer, while areas with more tree coverage are cooler.

According to the U.S. Environmental Protection Agency, higher temperatures can lead to heat-related deaths and illnesses, respiratory difficulties, and higher overall pollution levels resulting from increased electrical demand and ozone. High temperatures can also contribute to pavement degradation, resulting in higher maintenance costs.



New transportation projects often result in increased impervious surface coverage and decreased tree coverage, potentially leading to larger heat islands and higher pollution levels due to additional vehicle traffic. Trees also reduce flood impacts by absorbing stormwater runoff.

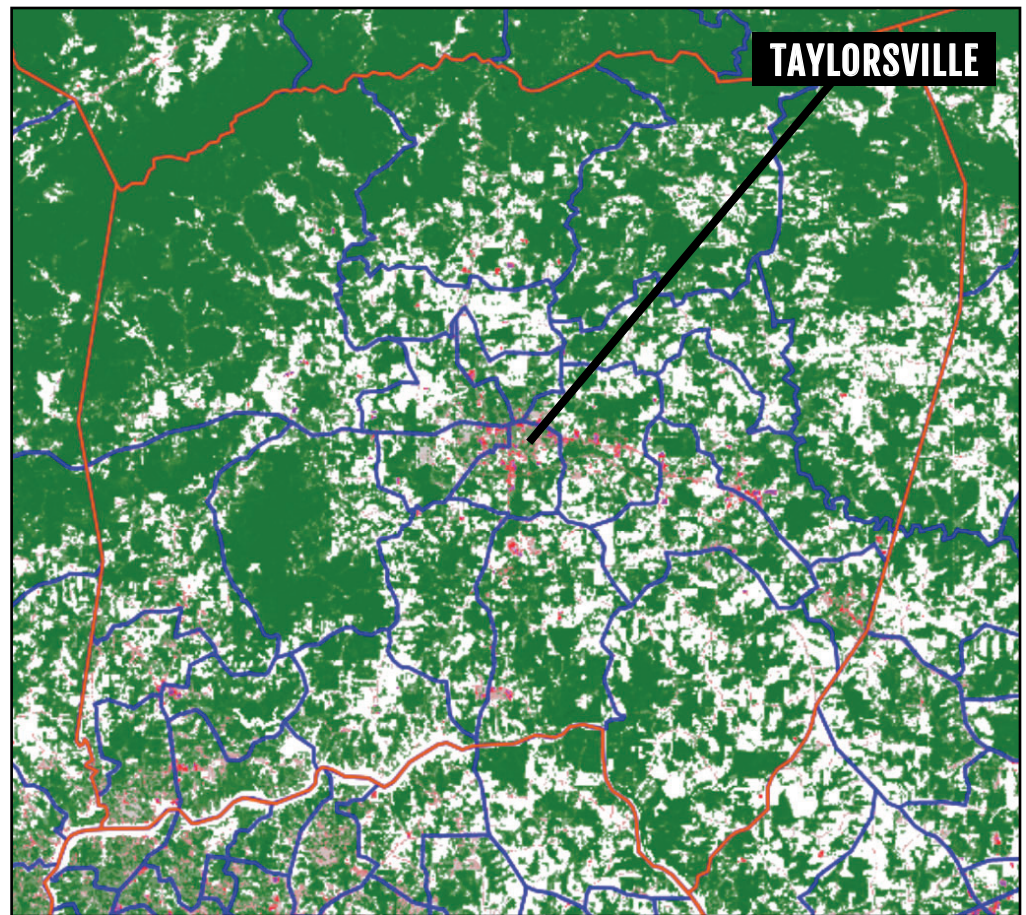
GHMPO staff should evaluate the potential negative impacts to EJ populations resulting from proposed transportation projects at the Census Block level.

Using the maps below, GHMPO staff can assess existing impervious surface coverage, tree coverage, and land surface temperature by Census Block groups. Because new transportation projects often result in increased impervious surface coverage and decreased tree coverage (potentially leading to larger heat islands and higher pollution levels due to additional vehicle traffic), these maps can be used to help determine whether and where EJ populations would be subject to disproportionately negative impacts resulting from transportation projects. The maps can also be used to help evaluate the cumulative impacts of transportation projects over the long term.

In the maps shown below, impervious surface cover and tree cover data is provided by the National Land Cover Database, and the land surface temperatures are provided by the U.S. Geological Survey, using infrared and near infrared satellite imagery. The tables below show impervious and tree cover data by Census Block Group. Block groups with a moderate EJ group concentration are highlighted in light orange, block groups with a high EJ group concentration are highlighted in dark orange.

MAP 1 | ALEXANDER COUNTY

Impervious surface is shown in pink, **tree coverage** is shown in green. White areas are open areas (grasslands, farms, parks, etc.) or bodies of water.



MAP 2 | ALEXANDER COUNTY

Cooler **land surface temperatures** are shown in blue, warmer ground surface temperatures are shown in yellow and red.

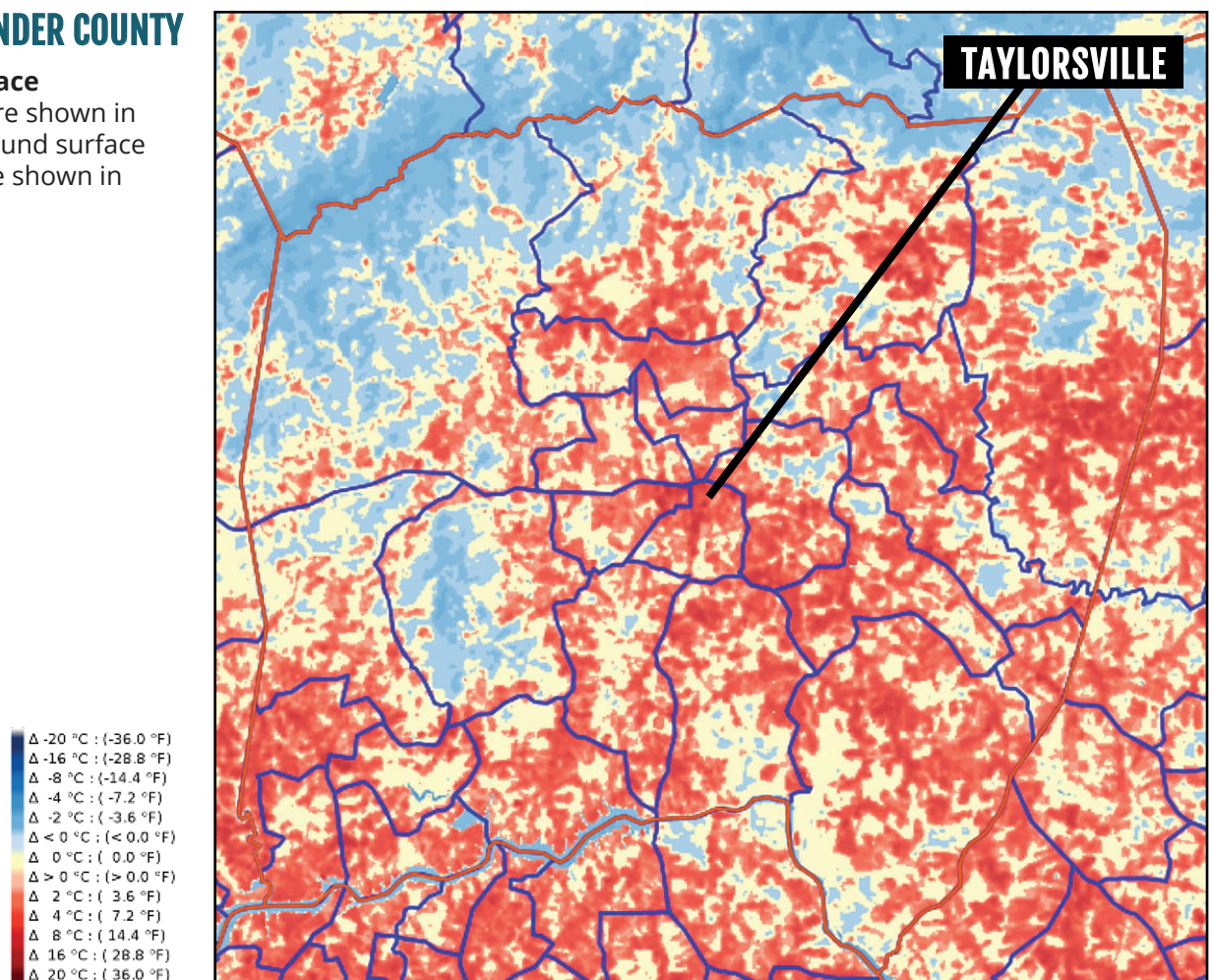


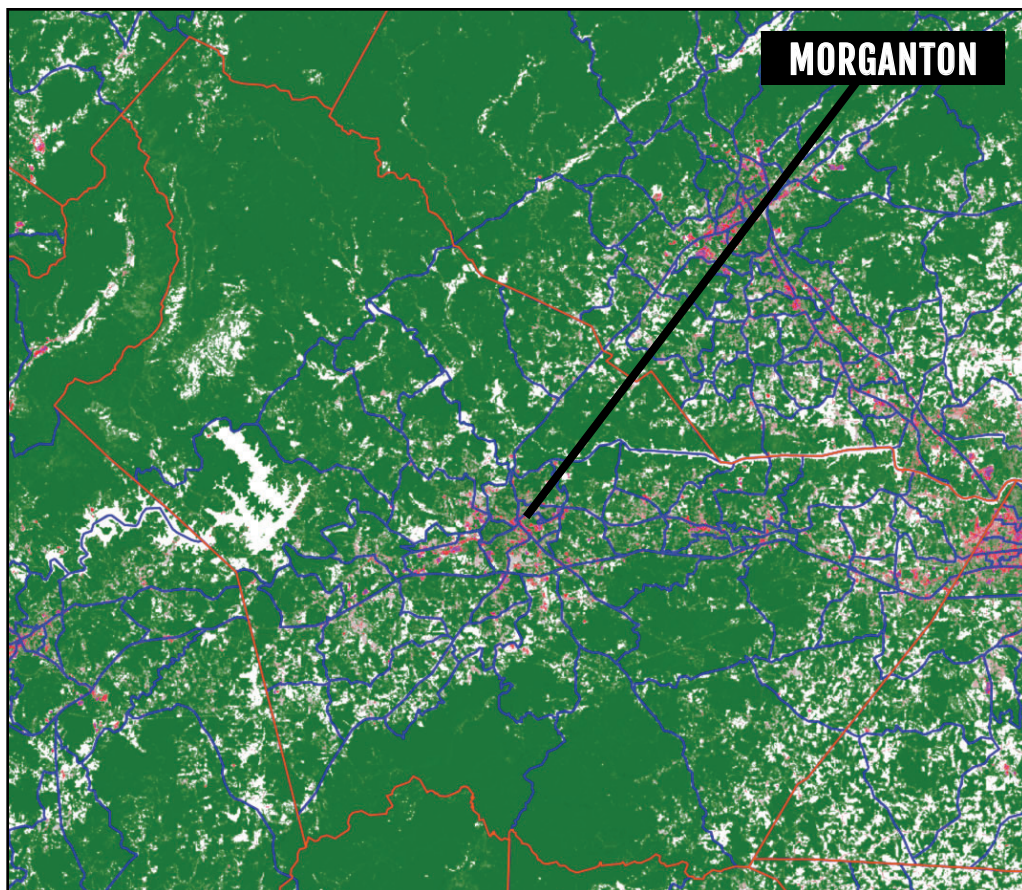
Table 1 Alexander County Census Block Groups

Census Blocks	Area		Canopy		Impervious		Plantable Space		County Totals
	Acre	% of all	Acre	%	Acre	%	Acre	%	
	168,736.30	100	96,735.70	58.14	2,970.10	1.78	66,691.40	40.08	
402003	24,350.30	14.43	18,104.80	74.38	147.1	0.6	6,092.20	25.03	
403002	8,609.40	5.1	5,073.40	59.32	137.2	1.6	3,339.80	39.05	
403001	9,508.00	5.63	6,632.20	69.89	69.1	0.73	2,787.90	29.38	
406003	5,293.40	3.14	2,179.70	46.63	84.2	1.8	2,409.60	51.55	
407001	2,548.50	1.51	1,344.80	55.1	92.3	3.78	1,003.80	41.13	
407004	2,905.30	1.72	1,070.40	44.93	158.9	6.67	1,153.70	48.42	
407002	2,894.30	1.72	965.3	34.17	145.8	5.16	1,713.00	60.65	
407003	2,526.30	1.5	1,087.40	47.58	165.6	7.25	1,031.00	45.11	
402001	13,756.70	8.15	9,726.40	70.76	108.7	0.79	3,912.00	28.46	
401001	12,529.40	7.43	8,584.50	68.59	61.3	0.49	3,870.60	30.93	
401003	21,030.70	12.46	13,374.60	63.68	106.5	0.51	7,522.80	35.82	
402002	4,081.60	2.42	1,544.40	37.86	33.1	0.81	2,502.30	61.33	
401002	4,901.50	2.9	2,289.10	46.73	43.4	0.89	2,566.50	52.4	
405002	5,534.80	3.28	2,576.40	46.9	137.8	2.51	2,782.20	50.64	
404001	4,474.60	2.65	1,831.60	41.09	222.6	4.99	2,405.10	53.95	
404005	1,492.70	0.88	592.3	39.77	60.5	4.06	838.2	56.28	
404004	2,615.80	1.55	1,000.90	38.43	104.3	4	1,500.90	57.62	
404003	2,123.10	1.26	884.6	42.07	133.3	6.34	1,082.80	51.49	
404002	2,106.70	1.25	793	37.8	247.7	11.81	1,054.80	50.28	
406002	5,429.90	3.22	2,671.60	49.88	90.3	1.69	2,594.20	48.43	
406001	7,755.50	4.6	3,957.60	52.12	181.9	2.4	3,453.00	45.48	
405003	5,327.00	3.16	2,229.40	42.04	185.3	3.49	2,888.00	54.46	
405004	15,275.40	9.05	7,561.90	50.41	152.6	1.02	7,285.40	48.57	
405001	1,665.50	0.99	659.6	39.69	100.7	6.06	901.4	54.25	

Note: Census Block Group Boundaries are from the 2010 Census.
Source: National Landcover Database via iTree.

MAP 3 | BURKE COUNTY

Impervious surface is shown in pink, **tree coverage** is shown in green. White areas are open areas (grasslands, farms, parks, etc.) or bodies of water.



MAP 4 | BURKE COUNTY

Cooler **land surface temperatures** are shown in blue, warmer ground surface temperatures are shown in yellow and red.

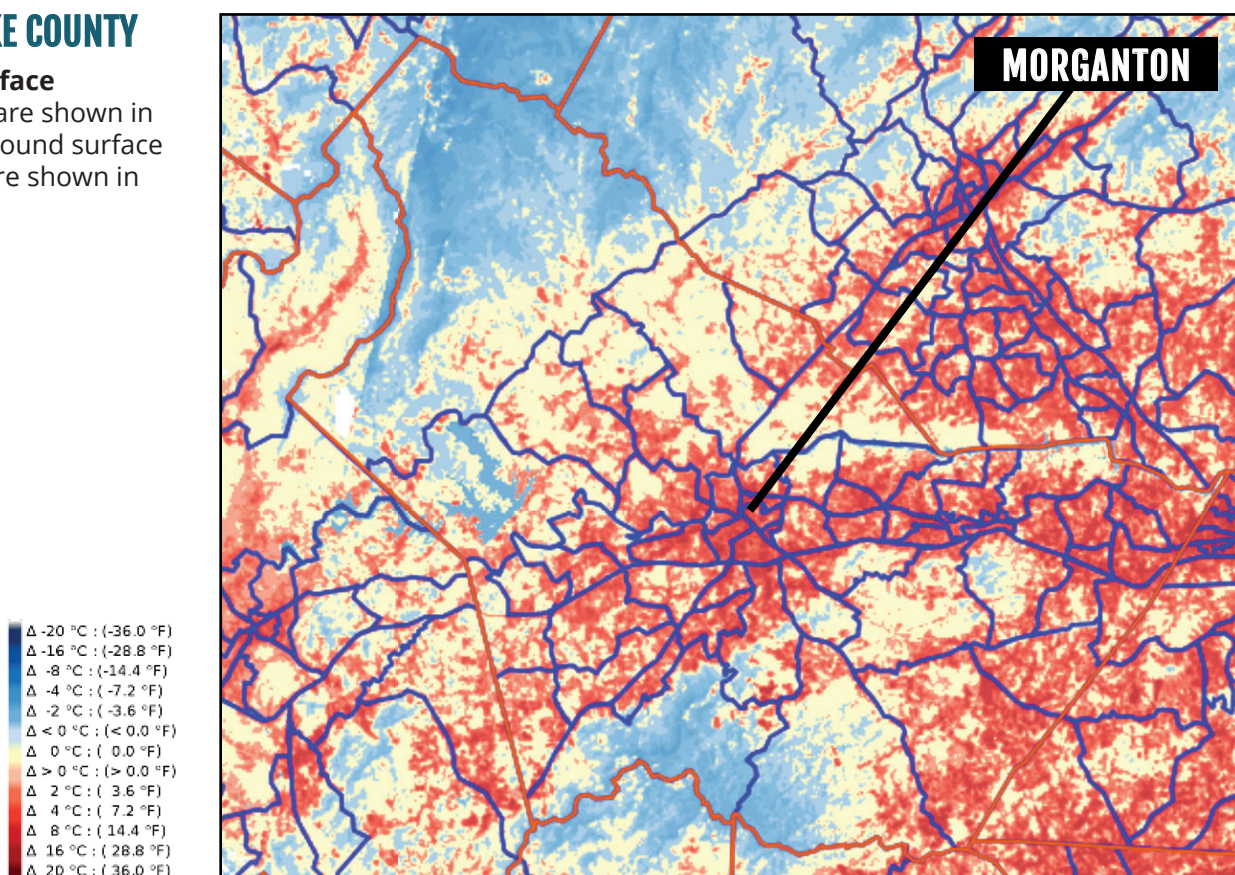


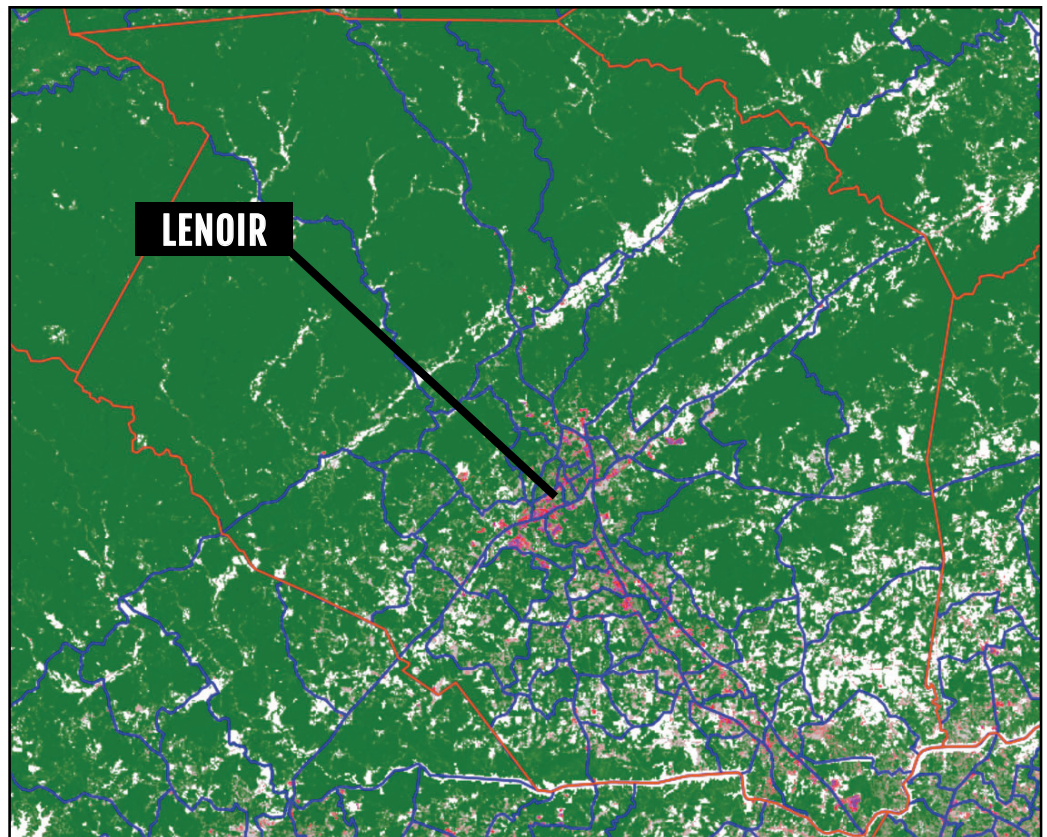
Table 2 - Burke County Census Block Groups

Census Blocks	Area		Canopy		Impervious		Plantable Space		County Totals
	Acre	% of all	Acre	%	Acre	%	Acre	%	
	329,648.30	100	245,084.70	75.52	7,679.70	2.37	71,777.00	22.12	
202012	17,080.50	5.18	10,651.80	78.19	171.7	1.26	2,796.50	20.53	
202013	10,249.60	3.11	8,121.20	79.23	99	0.97	2,029.10	19.8	
202021	4,330.40	1.31	2,591.90	59.85	252.6	5.83	1,484.10	34.27	
202022	5,823.10	1.77	3,766.70	64.68	132.8	2.28	1,926.50	33.08	
203014	2,788.60	0.85	1,868.20	66.99	101.6	3.64	820	29.41	
201001	14,463.40	4.39	11,576.20	80.04	63.8	0.44	2,821.10	19.51	
202014	5,767.40	1.75	4,547.30	78.89	47.4	0.82	1,171.60	20.33	
201002	5,465.50	1.66	3,883.30	71.05	66.5	1.22	1,516.40	27.74	
202011	69,510.60	21.09	61,248.30	88.12	131.1	0.19	8,124.60	11.69	
201003	9,784.30	2.97	7,629.20	81	84.3	0.89	1,705.30	18.11	
203013	2,728.80	0.83	1,749.50	64.11	140.5	5.15	838.9	30.74	
203012	2,658.90	0.81	1,838.40	69.14	80.8	3.04	740.9	27.87	
203022	5,815.70	1.76	3,150.40	54.17	186.9	3.21	2,478.30	42.61	
203011	4,553.80	1.38	3,053.10	67.15	116.7	2.57	1,374.90	30.24	
203023	4,343.60	1.32	2,475.20	56.99	81.9	1.89	1,786.50	41.13	
203021	3,367.10	1.02	2,227.30	66.15	151.5	4.5	987	29.31	
214002	2,164.20	0.66	970.1	44.82	328.7	15.19	866	40.01	
214001	560.9	0.17	289.9	51.69	52.5	9.36	219.5	39.13	
203024	5,018.00	1.52	3,304.50	65.85	55.9	1.11	1,656.90	33.02	
205001	984.8	0.3	503	51.08	178.6	18.14	303.1	30.78	
206001	1,372.50	0.42	862.8	62.86	147.3	10.73	364	26.52	
208012	2,678.80	0.81	2,041.90	78.24	74	2.83	494.4	18.94	
208011	3,626.60	1.1	2,352.60	69.97	125.1	3.72	885.1	26.33	
209001	2,830.60	0.86	1,770.90	65.43	216	7.98	721.9	26.67	
208013	1,235.70	0.37	604.5	48.92	124	10.04	508.5	41.15	
208022	1,457.10	0.44	857.6	58.85	106.7	7.33	493	33.84	
214004	1,146.50	0.35	384.6	33.54	188.2	16.42	571.6	49.85	
209004	962.8	0.29	512.6	53.24	143.1	14.86	304.8	31.66	
208021	2,240.50	0.68	1,393.20	62.18	192.6	8.6	655.3	29.25	
206003	615.7	0.19	224.5	36.47	178.5	29	214.6	34.85	
214003	929.4	0.28	374.8	40.33	246.3	26.5	306.1	32.93	
205002	407.7	0.12	269.8	66.17	69.4	17.01	68.9	16.9	
206002	448.6	0.14	163.4	36.42	116.7	26.02	168.6	37.57	
206004	198.2	0.06	75.4	38.06	34.6	17.45	89.1	44.95	
213012	1,202.40	0.36	698.9	58.13	127.3	10.59	376	31.27	
213011	2,066.50	0.63	960.5	46.48	85.3	4.13	1,020.40	49.38	
213013	7,010.10	2.13	4,962.50	70.79	167.5	2.39	1,878.30	26.79	
213021	1,815.00	0.55	966.4	53.25	53.2	2.93	794.8	43.79	
212031	17,399.70	5.28	12,476.20	71.73	146.2	0.84	4,770.80	27.43	
212032	6,628.40	2.01	3,731.50	56.3	71.7	1.08	2,826.20	42.64	
213023	23,454.20	7.11	21,514.10	91.73	56.7	0.24	1,881.00	8.02	
213022	19,413.70	5.89	18,033.30	93.01	57.9	0.3	1,297.00	6.69	
212023	2,761.20	0.84	1,342.10	48.89	151.6	5.52	1,250.20	45.54	
212022	2,817.50	0.85	1,604.30	57.09	110.2	3.92	1,093.50	38.91	
212021	6,703.20	2.03	5,110.50	76.24	138.6	2.07	1,451.40	21.65	
212013	11,304.20	3.43	9,737.00	86.14	107.2	0.95	1,458.70	12.9	
212012	3,641.10	1.1	2,892.90	79.45	125.9	3.46	620.9	17.05	
212011	3,440.70	1.04	2,611.40	75.9	95.5	2.77	732.6	21.29	
209005	1,245.30	0.38	657.5	52.94	143	11.51	443	35.66	
209003	636.8	0.19	321.2	50.86	100.4	15.9	210.7	33.36	
209002	2,739.90	0.83	1,715.50	64.7	144.1	5.44	792.6	29.89	
210001	5,187.80	1.57	3,107.60	65.91	117.2	2.49	1,491.50	31.63	
211003	1,797.40	0.55	810.1	45.07	95.1	5.29	892.3	49.64	
211001	3,519.10	1.07	1,439.60	43.01	438.1	13.09	1,470.60	43.94	
210003	2,386.80	0.72	1,102.90	46.21	108.4	4.54	1,175.70	49.26	
211002	2,070.80	0.63	669.4	32.35	324.5	15.68	1,076.20	52.01	
210004	786.2	0.24	232	29.74	111.1	14.25	437	56.02	
210002	2,010.20	0.61	1,053.20	52.39	115.8	5.76	842.7	41.92	

Note: Census Block Group Boundaries are from the 2010 Census.
Source: National Landcover Database via iTree.

MAP 5 | CALDWELL COUNTY

Impervious surface is shown in pink, **tree coverage** is shown in green. White areas are open areas (grasslands, farms, parks, etc.) or bodies of water.



MAP 6 | CALDWELL COUNTY

Cooler **land surface temperatures** are shown in blue, warmer ground surface temperatures are shown in yellow and red.

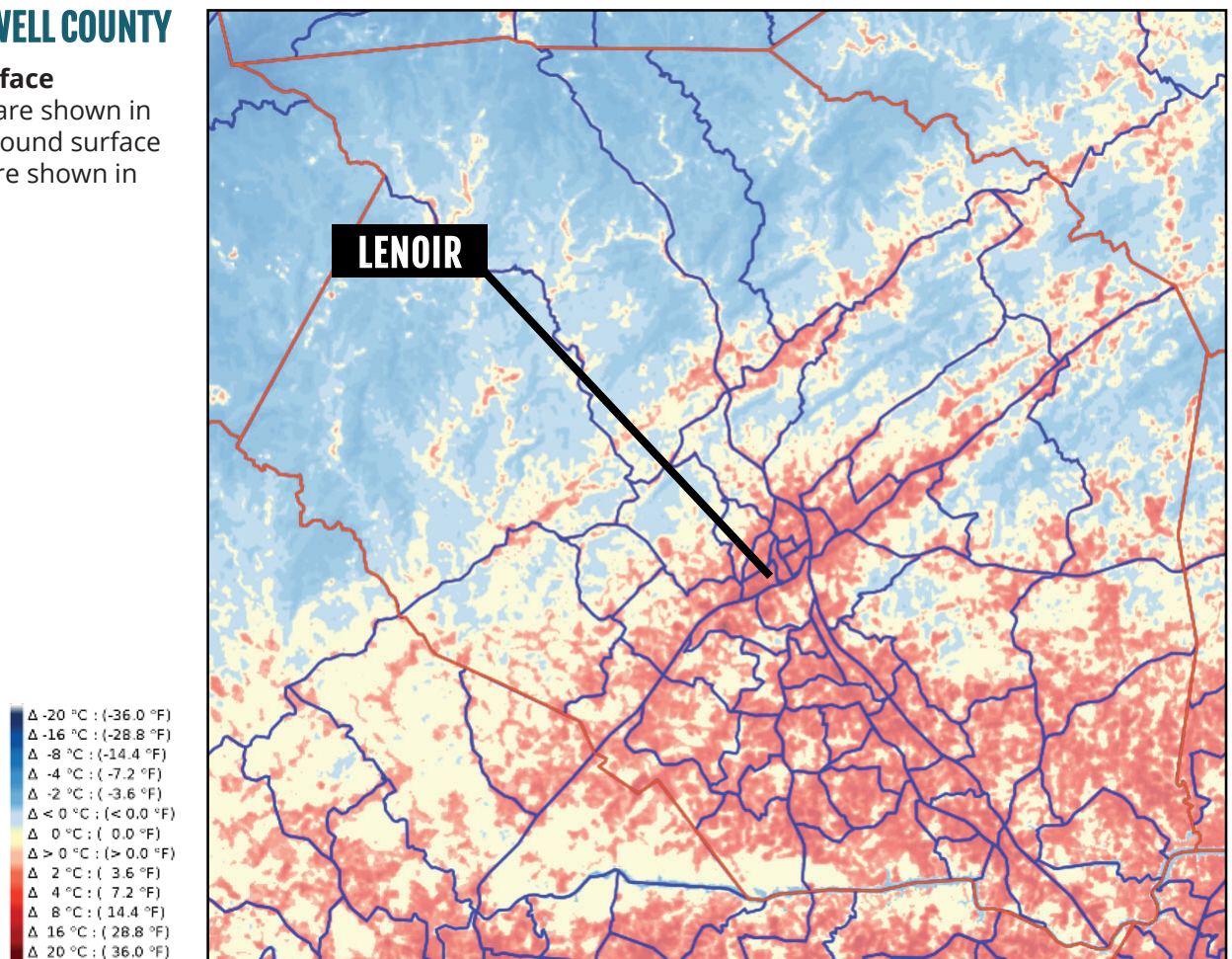
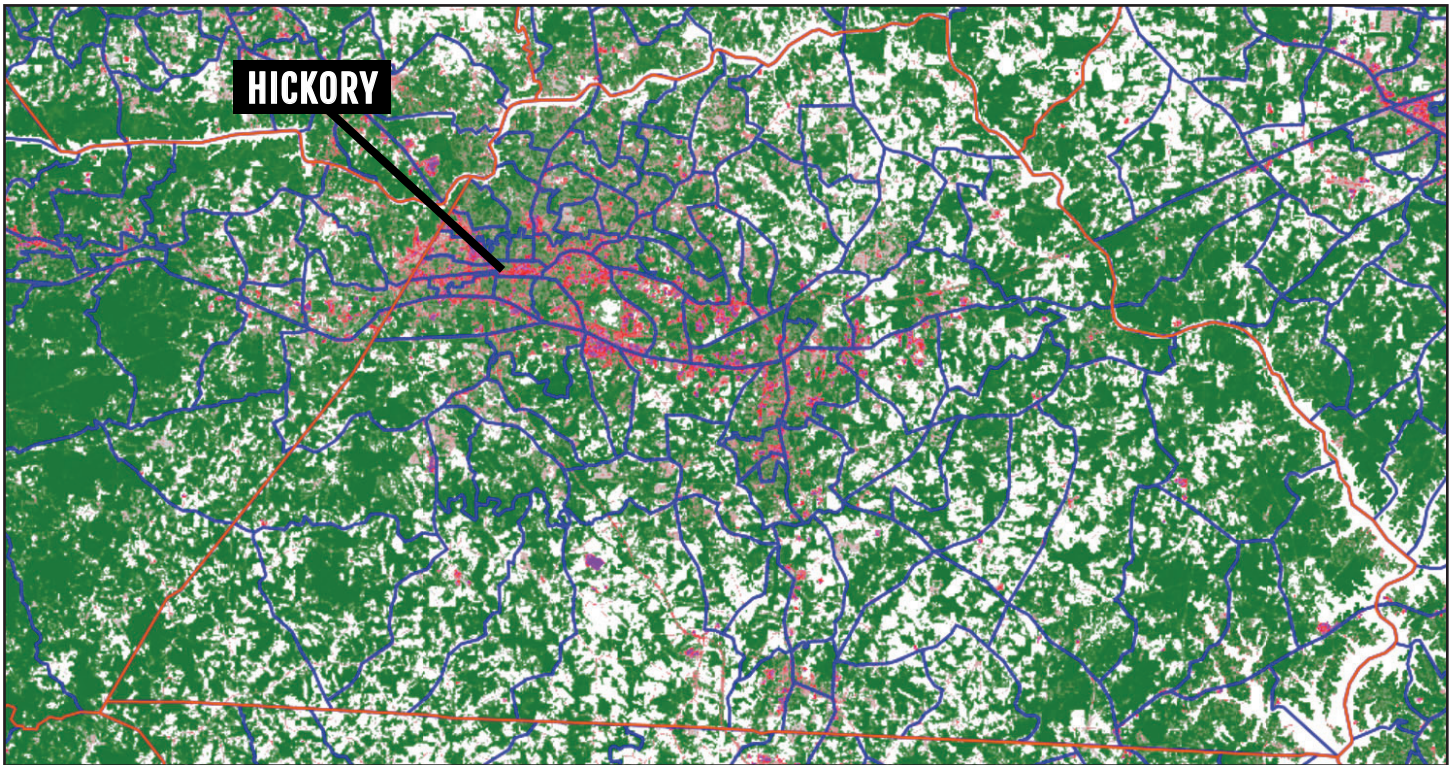


Table 2 - Caldwell County Census Block Groups

Census Blocks	Area		Canopy		Impervious		Plantable Space		County Totals
	Acre	% of all	Acre	%	Acre	%	Acre	%	
	303,560.40	100	234,754.30	77.78	7,091.40	2.35	59,957.60	19.87	
314032	940.8	0.31	357	37.95	135.7	14.42	450.3	47.87	
314031	986.2	0.32	397.4	40.34	151.5	15.38	435.5	44.21	
314023	900.9	0.3	447.9	54.93	51.7	6.34	314.8	38.61	
314022	935.9	0.31	406	51.26	112.2	14.17	273.6	34.55	
314021	2,335.10	0.77	1,189.80	52.8	271	12.03	787.8	34.96	
314012	683.5	0.23	210.1	30.74	113.7	16.64	357.5	52.31	
314011	4,448.10	1.47	2,159.90	52.94	150.5	3.69	1,769.30	43.36	
313004	9,058.00	2.98	3,746.50	42.4	150.8	1.71	4,940.40	55.91	
313003	1,345.90	0.44	592.1	45.99	93.6	7.27	602.8	46.82	
313002	3,618.20	1.19	1,411.40	41.7	278.8	8.24	1,693.50	50.04	
313001	2,547.70	0.84	1,127.70	51.76	324.7	14.9	729.9	33.5	
312022	3,460.90	1.14	1,776.20	51.32	98.8	2.85	1,586.70	45.85	
312021	9,668.10	3.18	7,445.30	77.04	103.1	1.07	2,117.30	21.91	
312014	9,822.20	3.24	6,345.50	64.6	70.6	0.72	3,405.80	34.67	
312013	15,830.50	5.21	12,992.90	82.08	63.5	0.4	2,775.50	17.53	
312012	8,712.10	2.87	7,131.30	81.86	52.1	0.6	1,529.10	17.55	
312011	2,872.20	0.95	1,958.10	68.17	118	4.11	796.7	27.74	
311004	3,703.50	1.22	2,489.50	67.22	48.2	1.3	1,167.20	31.52	
311003	14,761.40	4.86	12,707.90	86.11	132.2	0.9	1,918.50	13	
311002	7,484.50	2.47	5,709.70	76.29	43.9	0.59	1,731.20	23.13	
311001	8,397.40	2.77	6,611.00	78.73	29.7	0.35	1,758.20	20.94	
310003	24,828.40	8.18	22,645.90	91.21	31.6	0.13	2,152.10	8.67	
310002	14,041.50	4.63	12,808.30	91.22	125	0.89	1,118.90	7.97	
310001	40,361.30	13.3	37,787.80	93.62	109.2	0.27	2,454.70	6.08	
309004	2,313.00	0.76	1,510.50	65.3	54.8	2.37	747.3	32.31	
309003	11,415.50	3.76	9,004.10	78.88	73.5	0.64	2,336.20	20.47	
309002	2,826.20	0.93	2,217.50	78.46	28.4	1	579.7	20.51	
309001	45,492.60	14.99	42,656.40	93.77	82	0.18	2,754.20	6.05	
308005	2,498.20	0.82	1,607.50	64.35	64.8	2.59	824.4	33	
308004	3,671.70	1.21	2,017.60	54.95	119.3	3.25	1,534.90	41.8	
308003	1,433.30	0.47	808.6	56.42	75.2	5.25	549.4	38.33	
308002	1,047.70	0.35	672.4	64.18	28.3	2.7	346.2	33.05	
308001	3,790.10	1.25	2,347.30	65.17	76.3	2.12	1,176.60	32.67	
307005	1,266.40	0.42	552.1	43.6	40.7	3.22	673.5	53.18	
307004	1,605.40	0.53	726.8	45.27	75.5	4.7	803.1	50.02	
307003	1,116.70	0.37	512.2	45.87	122.7	10.99	480.7	43.04	
307002	984	0.32	472.3	48	80.4	8.17	430.1	43.71	
307001	1,397.50	0.46	813.6	58.22	66.7	4.78	517.7	37.04	
306003	1,153.50	0.38	648.9	56.25	117.1	10.15	389.8	33.79	
306002	1,561.90	0.51	786.6	50.36	135.3	8.66	641.4	41.07	
306001	1,149.00	0.38	531	46.21	164.9	14.35	453.1	39.43	
305003	2,676.40	0.88	1,736.20	64.87	194.9	7.28	745.4	27.85	
305002	469.7	0.15	193.7	41.25	103.1	21.95	174.2	37.08	
305001	1,660.30	0.55	924.1	55.66	121.9	7.34	615.1	37.05	
304004	1,110.80	0.37	591.6	53.26	148.3	13.35	373	33.58	
304003	857.2	0.28	297.1	34.65	159.8	18.65	399.2	46.57	
304002	390.8	0.13	168.3	43.06	97.9	25.05	123.9	31.69	
304001	745.2	0.25	283	37.98	190.2	25.52	271.7	36.45	
303004	2,043.40	0.67	1,380.70	67.57	82.4	4.03	580.6	28.41	
303003	1,164.50	0.38	607.2	52.14	92.5	7.94	464.4	39.88	
303002	1,357.90	0.45	620.9	45.73	262.5	19.33	474	34.9	
303001	1,242.50	0.41	703.1	56.59	230.4	18.55	306.9	24.7	
302004	3,200.80	1.05	1,888.50	59	221	6.91	1,091.80	34.11	
302003	4,623.20	1.52	3,602.10	77.91	90.9	1.97	930.7	20.13	
302002	1,117.40	0.37	814.3	72.87	74.1	6.63	228.8	20.48	
302001	2,414.50	0.8	1,858.30	76.96	85.6	3.54	469	19.42	
301006	389.8	0.13	73.7	18.92	197	50.55	119.2	30.59	
301005	401.5	0.13	222.1	55.31	80.8	20.12	97.9	24.39	
301004	235.8	0.08	66.9	28.38	89.2	37.85	79.5	33.73	
301003	243.2	0.08	91.3	37.54	84.2	34.63	67.9	27.9	
301002	121.2	0.04	44.5	36.73	38.7	31.96	38.4	31.7	
301001	627.2	0.21	245.9	39.2	180.3	28.74	200.4	31.96	

Note: Census Block Group Boundaries are from the 2010 Census. Source: National Landcover Database via iTree.



MAP 7 & 8 | CATAWBA COUNTY

Above: Impervious surface is shown in pink, tree coverage is shown in green. White areas are open areas (grasslands, farms, parks, etc.) or bodies of water. Below: Cooler land surface temperatures are shown in blue, warmer ground surface temperatures are shown in yellow and red.

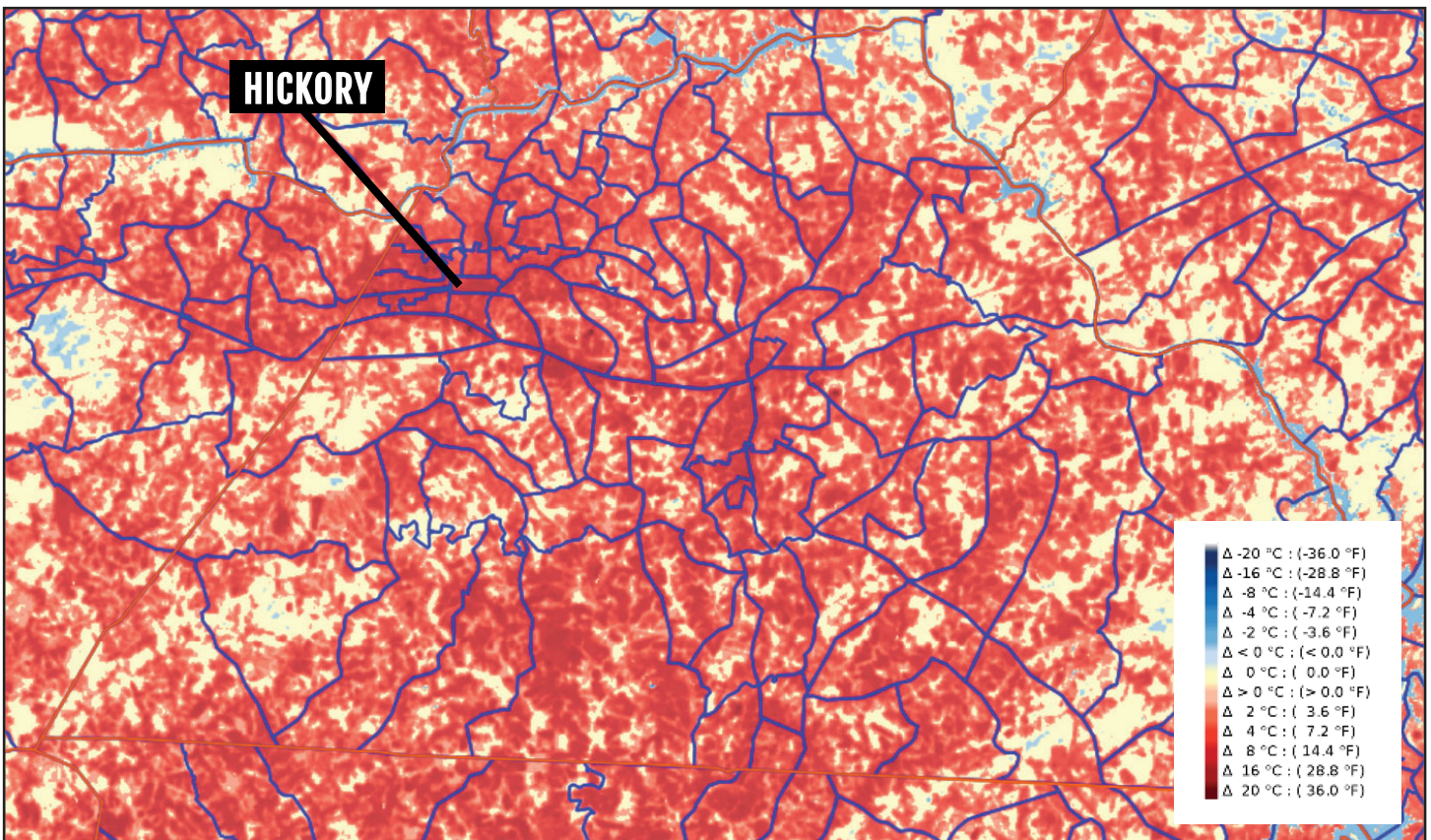


Table 4 - Catawba County Census Block Groups

Census Blocks	Area		Canopy		Impervious		Plantable Space		County Totals
	Acre	% of all	Acre	%	Acre	%	Acre	%	
	264,585.80	100	120,854.30	47.36	15,855.80	6.21	118,472.90	46.43	
103022	1,135.10	0.43	377.6	33.38	188.6	16.67	564.9	49.94	
103031	624.4	0.24	238.5	38.2	109.2	17.48	277	44.36	
103023	371.6	0.14	136.5	36.74	54.9	14.78	180.5	48.56	
105022	779.1	0.29	333.2	46.29	76.9	10.68	309.3	42.97	
103012	986.8	0.37	361.2	36.67	136.5	13.85	487.2	49.47	
105021	1,395.00	0.53	442.7	42.46	144	13.81	456.4	43.77	
106001	712.5	0.27	352	50.1	117.1	16.66	233.6	33.25	
103021	1,605.20	0.61	558.5	41.21	122.1	9.01	675.2	49.83	
103011	1,320.90	0.5	634.4	53.6	38.7	3.27	511	43.18	
105012	1,054.60	0.4	418.5	43.16	188.5	19.44	362.2	37.35	
104013	673.6	0.25	226.3	33.6	150.7	22.38	296.8	44.07	
104021	468.6	0.18	113.5	24.22	151	32.22	205	43.75	
104011	797.9	0.3	276.9	34.93	135.4	17.08	380.9	48.05	
104012	567.7	0.21	147.6	26.02	137.2	24.18	282.7	49.84	
104022	627.6	0.24	120	19.13	263.1	41.92	245.9	39.17	
105013	283.7	0.11	87.5	30.96	90.3	31.97	104.9	37.12	
106003	776.4	0.29	151.7	19.56	289.8	37.37	333.9	43.05	
106002	489.8	0.19	122.5	25.14	177.7	36.49	187.5	38.5	
107003	302.7	0.11	77.5	25.6	81.2	26.84	144.2	47.64	
106004	531.6	0.2	67.1	12.62	234.7	44.14	230.6	43.38	
107001	282	0.11	26.8	9.5	136.6	48.45	118.2	41.92	
107002	321.6	0.12	57	17.73	130	40.44	134.8	41.93	
105011	313.8	0.12	25.4	8.1	189.6	60.42	99.2	31.62	
109002	776.5	0.29	246.5	31.75	239.1	30.8	290.4	37.4	
109001	514.5	0.19	114.9	22.34	195.2	37.97	204.5	39.78	
110001	2,463.50	0.93	540.5	22.03	913.1	37.21	1,000.50	40.78	
103042	573.1	0.22	195.3	34.16	157.6	27.56	220.2	38.51	
110002	1,702.30	0.64	614.5	36.22	434.3	25.6	646.7	38.12	
103043	1,230.90	0.47	561.4	45.78	181.8	14.83	484	39.47	
103041	459.2	0.17	193	42.13	84.6	18.48	180.8	39.47	
103032	1,548.40	0.59	668.5	43.19	235.3	15.2	643	41.54	
103013	2,168.50	0.82	736.6	36.49	207.8	10.29	1,074.50	53.23	
102012	2,312.60	0.87	865.1	37.43	66.8	2.89	1,378.40	59.64	
102013	1,342.40	0.51	396.9	29.72	36.3	2.72	902.6	67.59	
102011	3,644.30	1.38	1,301.10	39.64	160	4.87	1,822.10	55.51	
102021	4,842.60	1.83	2,084.60	43.34	221.5	4.61	2,504.40	52.07	
102022	1,057.10	0.4	478.3	45.38	100.4	9.53	475.8	45.15	
102024	2,272.00	0.86	818.5	36.15	498.6	22.02	947.1	41.83	
101011	6,549.10	2.48	2,843.50	45.13	80.5	1.28	3,380.30	53.65	
102023	1,441.00	0.54	588.5	40.84	390.1	27.08	463.3	32.16	
101021	356.3	0.13	121.3	34.04	101.9	28.61	133.5	37.46	
101022	1,752.30	0.66	686.6	39.23	209.2	11.95	855.3	48.87	
101012	3,107.00	1.17	1,005.40	32.7	142.1	4.62	1,926.90	62.67	
101013	1,873.30	0.71	774.3	41.39	31	1.66	1,064.60	56.92	
101023	3,806.00	1.44	1,646.20	43.6	326	8.63	1,805.20	47.81	
111022	2,738.40	1.03	1,484.10	54.98	131.1	4.86	1,083.00	40.12	
111023	1,655.40	0.63	663.3	40.18	359	21.74	627.3	37.99	
111021	1,766.90	0.67	937.2	54.02	228.7	13.18	567.7	32.72	
101014	6,587.70	2.49	3,347.00	54.49	133.8	2.18	2,663.00	43.35	
111012	5,016.30	1.9	2,684.10	54.03	170.2	3.43	2,112.20	42.52	
111011	2,283.80	0.86	979.8	42.98	429	18.82	868.1	38.09	
117011	3,438.50	1.3	1,475.10	43.01	384.7	11.22	1,566.70	45.68	
113001	1,860.10	0.7	740.2	39.8	412.8	22.2	707.1	38.02	
112001	1,426.00	0.54	519.3	36.51	360.5	25.34	542	38.1	
114012	2,984.20	1.13	1,426.50	48.3	76.5	2.59	1,450.00	49.1	
113002	2,753.90	1.04	1,157.70	42.22	88.4	3.22	1,495.90	54.55	
114011	2,983.20	1.13	1,037.40	34.94	323.2	10.89	1,608.40	54.17	
114023	4,934.10	1.86	1,757.80	35.91	85.4	1.74	3,051.60	62.34	

Note: Census Block Group Boundaries are from the 2010 Census.
Source: National Landcover Database via iTree.

Table 4 - Catawba County Census Block Groups Continued

Census Blocks	Area		Canopy		Impervious		Plantable Space		County Totals
	Acre	% of all	Acre	%	Acre	%	Acre	%	
	329,648.30	100	245,084.70	75.52	7,679.70	2.37	71,777.00	22.12	
115011	11,938.90	4.51	6,264.70	52.85	120.6	1.02	5,469.70	46.14	
114013	2,421.30	0.92	1,501.10	62.48	40.5	1.69	861.4	35.86	
115013	2,441.20	0.92	1,419.00	60.16	67.5	2.86	872.2	36.98	
115031	11,392.10	4.31	6,745.20	63.12	113	1.06	3,828.30	35.83	
114021	3,955.00	1.49	2,082.70	52.75	39.6	1	1,826.10	46.25	
114022	1,989.10	0.75	896.1	45.17	57.4	2.89	1,030.80	51.96	
115012	8,228.80	3.11	5,063.00	63.5	109	1.37	2,801.40	35.14	
115041	4,064.70	1.54	2,385.80	66.35	161.7	4.5	1,049.00	29.17	
115042	4,749.90	1.8	2,250.60	61.8	223.1	6.13	1,166.60	32.04	
115032	6,355.10	2.4	3,114.90	64.45	161.3	3.34	1,557.60	32.23	
116024	4,294.80	1.62	2,282.10	53.32	79.5	1.86	1,916.30	44.78	
115043	3,828.90	1.45	1,124.70	58.83	115.8	6.06	670.7	35.08	
116011	4,607.90	1.74	1,758.10	38.61	52.1	1.14	2,743.90	60.25	
116023	4,007.50	1.51	1,519.30	38.03	40.5	1.01	2,434.20	60.93	
116012	3,303.60	1.25	1,552.60	47.33	67.3	2.05	1,659.60	50.59	
116022	3,111.30	1.18	1,452.20	46.85	110.9	3.58	1,536.60	49.57	
113003	2,142.10	0.81	929.3	43.42	236.4	11.04	974.4	45.52	
112003	213.4	0.08	60.4	28.31	71.9	33.68	80.8	37.88	
112002	686	0.26	235.9	34.47	205.3	30	243	35.51	
117013	2,878.50	1.09	1,409.40	49.62	123.5	4.35	1,309.10	46.09	
112004	897.2	0.34	435.8	49.06	118.2	13.3	333.7	37.56	
116013	2,840.90	1.07	1,051.80	37.14	146.7	5.18	1,634.70	57.73	
116021	876	0.33	392	44.96	94.2	10.81	386.8	44.37	
117025	883.2	0.33	268.2	30.54	73	8.31	535.6	60.99	
117023	1,852.10	0.7	801.1	43.69	54.6	2.98	977.3	53.29	
117024	1,706.90	0.65	539	31.95	202.8	12.02	944.5	55.99	
117021	3,124.00	1.18	1,253.60	40.46	119.2	3.85	1,725.20	55.69	
117022	14,589.30	5.51	5,230.70	36.22	476.8	3.3	8,732.60	60.47	
111024	1,549.30	0.59	578.7	37.38	160.6	10.37	808.1	52.2	
117012	2,472.70	0.93	1,168.50	47.93	109.2	4.48	1,160.20	47.58	
118012	2,804.20	1.06	1,548.40	55.78	60.8	2.19	1,165.80	42	
118011	6,927.30	2.62	4,093.40	59.39	126.7	1.84	2,671.90	38.76	
118023	8,092.10	3.06	3,734.00	46.52	102.2	1.27	4,190.80	52.22	
118013	1,737.80	0.66	900	51.91	70	4.04	764	44.06	
118024	7,007.60	2.65	3,419.70	49.15	65.7	0.94	3,470.50	49.88	
118022	8,548.30	3.23	4,961.40	58.57	60.4	0.71	3,448.10	40.71	
118021	9,423.10	3.56	5,387.60	57.39	77.3	0.82	3,921.90	41.78	

Note: Census Block Group Boundaries are from the 2010 Census.

Source: National Landcover Database via iTree.