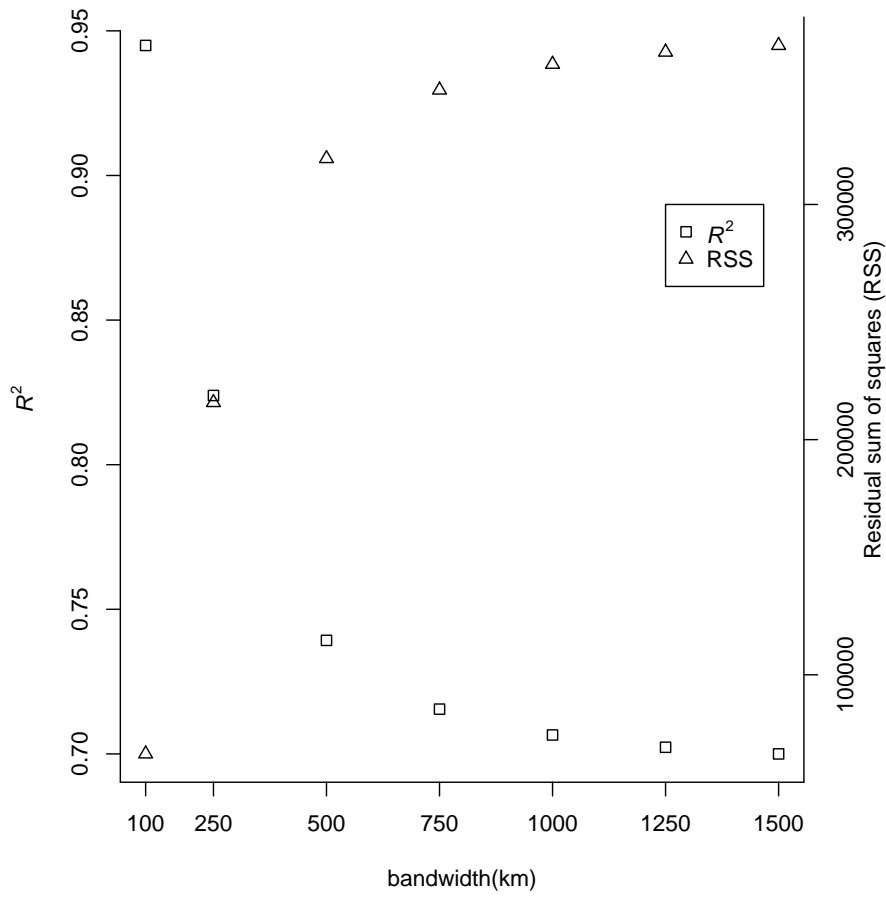


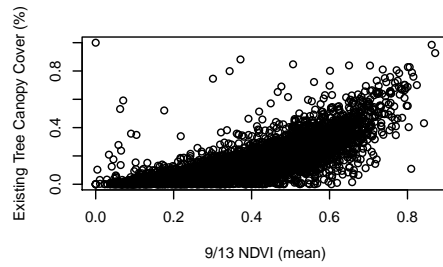
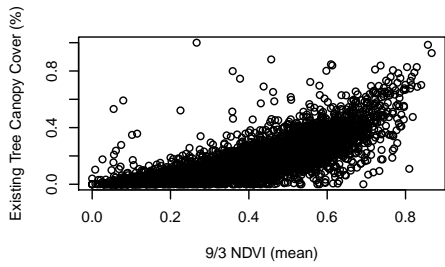
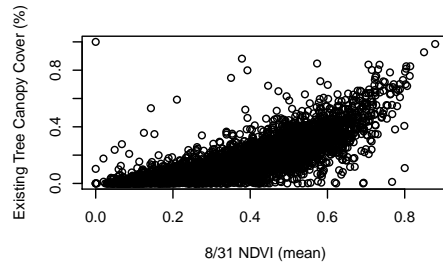
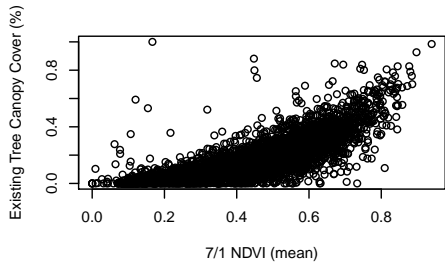
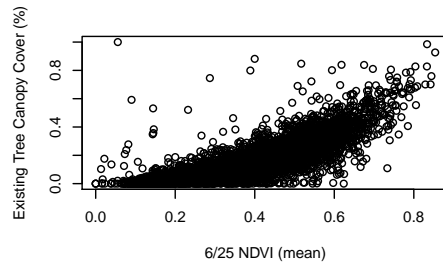
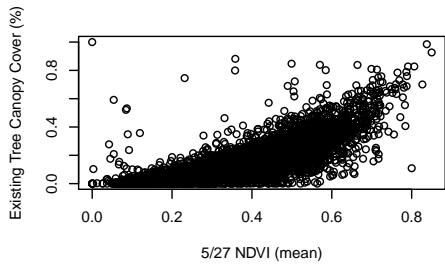
Supplemental Material 1: Daily minimum and maximum air temperatures and overpass times on dates of Landsat scenes used in analysis.

Date	T <sub>min</sub> (°C)	T <sub>max</sub> (°C)	Overpass time
3/8/2010	-1.0	7.8	11:01:19 AM
5/27/2010	-3.2	9.4	11:01:06 AM
6/25/2009	21.7	31.7	10:58:53 AM
7/1/2011	18.9	27.2	10:59:36 AM
7/27/2009	18.9	27.8	10:59:25 AM
8/31/2010	23.3	29.4	11:00:39 AM
9/3/2011	23.9	33.3	10:59:02 AM
9/13/2009	12.8	22.8	11:00:07 AM
10/5/2011	8.9	16.1	10:58:28 AM
11/3/2010	1.1	10.0	11:00:12 AM
11/6/2011	5.6	17.8	10:58:05 AM
11/19/2010	2.2	9.4	11:00:10 AM

Supplemental Material 2: Sensitivity analysis of fixed-bandwidth effect on r-squared and residual sum of squares in GWR runs in Cleveland, OH.



### Supplemental Material 3: Mean NDVI May-September vs. Existing Tree Canopy Cover (ETC) in Cleveland, OH.



Supplemental Material 4: Range and mean of Vegetated Possible Tree Canopy (VPTC) and VPTC-constrained NDVI changes in Statistical Planning Areas (SPAs) in the Cleveland, OH study area.

SPA	VPTC			NDVI Constrained		
	min	max	mean	min	max	mean
Bellaire-Puritas	0.00	0.74	0.34	0.27	0.93	0.57
Broadway-Slavic Village	0.0	0.67	0.29	0.27	0.87	0.52
Brooklyn Centre	0.00	0.52	0.26	0.27	0.73	0.50
Buckeye-Shaker Square	0.04	0.50	0.26	0.30	0.71	0.50
Buckeye-Woodhill	0.06	0.60	0.31	0.32	0.8	0.55
Central	0.00	0.77	0.29	0.27	0.95	0.53
Clark-Fulton	0.00	0.58	0.25	0.27	0.79	0.50
Collinwood-Nottingham	0.00	0.62	0.27	0.27	0.82	0.51
Cudell	0.02	0.44	0.26	0.29	0.66	0.50
Cuyahoga Valley	0.00	0.78	0.17	0.27	0.96	0.42
Detroit Shoreway	0.00	0.76	0.25	0.27	0.95	0.49
Downtown	0.00	0.51	0.08	0.27	0.72	0.34
Edgewater	0.04	0.53	0.24	0.30	0.74	0.49
Euclid-Green	0.02	0.48	0.26	0.29	0.70	0.50
Fairfax	0.00	0.86	0.27	0.27	1.04	0.51
Glenville	0.00	0.60	0.28	0.27	0.80	0.52
Goodrich-Kirtland Pk	0.00	0.52	0.14	0.27	0.73	0.39
Hopkins	0.00	0.69	0.36	0.27	0.89	0.59
Hough	0.03	0.65	0.31	0.30	0.85	0.54
Jefferson	0.01	0.58	0.29	0.28	0.79	0.53
Kamm's	0.00	0.74	0.33	0.27	0.93	0.56
Kinsman	0.00	0.73	0.32	0.27	0.93	0.55
Lee-Harvard	0.16	0.50	0.37	0.41	0.72	0.60
Lee-Seville	0.15	0.95	0.35	0.41	1.12	0.58
Mount Pleasant	0.06	0.82	0.30	0.33	1.00	0.54
North Shore Collinwood	0.05	0.68	0.29	0.32	0.87	0.53
Ohio City	0.00	0.65	0.19	0.27	0.85	0.44
Old Brooklyn	0.03	0.66	0.31	0.30	0.86	0.54
St.Clair-Superior	0.02	0.50	0.25	0.29	0.72	0.49
Stockyards	0.05	0.99	0.31	0.32	1.15	0.55
Tremont	0.00	0.66	0.23	0.27	0.86	0.48
Union-Miles	0.03	0.53	0.30	0.30	0.75	0.54
University	0.00	0.89	0.18	0.27	1.07	0.43
West Boulevard	0.00	0.59	0.28	0.27	0.80	0.52