

## i-Tree Landscape report for Northampton, MA

2011 data

Date: 11/16/2022



## Location Information

Canopy &amp; Impervious (2011 NLCD)

Dataset	Type	Name	ID	Area		Canopy		Impervious		Plantable Space	
				acre	% of all	acre	%	acre	%	acre	%
NLCD 2011	Block Group	N/A	250158217003	281.8	1.23	191.1	67.96	21.7	7.70	69.7	24.77
NLCD 2011	Block Group	N/A	250158216022	254.3	1.11	124.7	49.03	55.9	21.97	73.3	28.84
NLCD 2011	Block Group	N/A	250158217002	140.3	0.61	51.1	36.39	47.5	33.86	41.9	29.83
NLCD 2011	Block Group	N/A	250158217001	7,379.4	32.30	5,428.0	74.31	159.1	2.18	1,716.6	23.50
NLCD 2011	Block Group	N/A	250158216011	2,414.7	10.57	1,700.2	71.64	86.0	3.63	587.7	24.76
NLCD 2011	Block Group	N/A	250158216012	957.1	4.19	284.3	34.83	283.9	34.77	248.2	30.40
NLCD 2011	Block Group	N/A	250158219041	143.6	0.63	41.1	29.92	45.9	33.35	50.2	36.51
NLCD 2011	Block Group	N/A	250158222001	3,413.1	14.94	791.1	28.03	203.3	7.20	1,827.7	64.76
NLCD 2011	Block Group	N/A	250158219042	157.9	0.69	21.5	13.63	99.3	62.90	37.8	23.94
NLCD 2011	Block Group	N/A	250158219033	225.6	0.99	68.5	30.35	96.3	42.68	60.3	26.74
NLCD 2011	Block Group	N/A	250158219031	485.2	2.12	183.8	38.91	86.1	18.24	202.8	42.94
NLCD 2011	Block Group	N/A	250158220001	124.6	0.55	29.3	26.91	47.8	43.85	31.5	28.93
NLCD 2011	Block Group	N/A	250158219012	69.4	0.30	16.4	23.68	36.6	52.69	16.4	23.58
NLCD 2011	Block Group	N/A	250158219011	314.3	1.38	134.1	43.00	85.3	27.36	92.8	29.77
NLCD 2011	Block Group	N/A	250158216023	492.2	2.15	227.0	46.75	116.6	24.01	141.0	29.05
NLCD 2011	Block Group	N/A	250158216021	271.2	1.19	82.3	30.44	93.1	34.42	95.0	35.11
NLCD 2011	Block Group	N/A	250158222002	888.1	3.89	503.0	56.94	122.0	13.81	258.4	29.26
NLCD 2011	Block Group	N/A	250158222003	4,832.6	21.15	2,971.6	62.38	186.8	3.92	1,603.7	33.66
Selection Total:				22,845.5	100.00	12,849.2	58.73	1,873.2	8.56	7,155.0	32.70

Forest Details (2011 NLCD)

	Forest Type Groups	Basal Area by Species (Top 10)	Total Basal Area (ft² (square feet))
<b>Selection Total:</b>	<ul style="list-style-type: none"> <li>Elm/Ash/Cottonwood (3.23%)</li> <li>Maple/Beech/Birch (29.81%)</li> <li>Oak/Hickory (60.74%)</li> <li>Oak/Pine (0.27%)</li> <li>White/Red/Jack Pine (5.93%)</li> </ul>	<ul style="list-style-type: none"> <li>Quercus spp., oak spp. (455309 ft²)</li> <li>Tsuga spp., hemlock spp. (235006 ft²)</li> <li>Tsuga canadensis, eastern hemlock (235006 ft²)</li> <li>Quercus rubra, northern red oak (218537 ft²)</li> <li>Quercus velutina, black oak (185232 ft²)</li> <li>Acer spp., maple spp. (148880 ft²)</li> <li>Pinus spp., pine spp. (144509 ft²)</li> <li>Pinus strobus, eastern white pine (144352 ft²)</li> <li>betula spp., birch spp. (127957 ft²)</li> <li>Acer rubrum, red maple (127743 ft²)</li> <li>...</li> </ul>	2,481,547.0

#### Deciduous Forest (2011 NLCD)

	Deciduous Forest	
	acre	%
<b>Selection Total:</b>	8,708.4	38.1

#### Evergreen Forest (2011 NLCD)

	Evergreen Forest	
	acre	%
<b>Selection Total:</b>	1,230.4	5.4

#### Mixed Forest (2011 NLCD)

	Mixed Forest	
	acre	%
<b>Selection Total:</b>	754.2	3.3

#### Pasture/Hay (2011 NLCD)

	Pasture/Hay	
	acre	%
<b>Selection Total:</b>	961.6	4.2

#### Cultivated Crops (2011 NLCD)

	Cultivated Crops	
	acre	%
<b>Selection Total:</b>	1,752.7	7.7

## Tree Benefits

### Carbon and CO<sub>2</sub> (2011 NLCD)

	Carbon Storage		Carbon Sequestration		CO <sub>2</sub> Equivalent Storage		CO <sub>2</sub> Equivalent Sequestration	
	\$	Short Ton	\$/yr (year)	t/yr (Short Tons per year)	\$	Short Ton	\$/yr (year)	t/yr (Short Tons per year)
<b>Selection Total:</b>	106,239,509	622,920.3	1,939,404	11,371.4	106,239,509	2,284,041.1	1,939,404	41,695.3

### Total Air Pollution Removal (2011 NLCD)

	\$/yr	lb/yr (pounds per year)	Health Incidence	Emergency Room Visits	Hospital Admissions	Acute Respiratory Symptoms	Asthma Exacerbation	Mortality	School Loss Days	Hospital Admissions, Respiratory	Hospital Admissions, Cardiovascular	Acute Myocardial Infarction	Chronic Bronchitis	Acute Bronchitis
<b>Selection Total:</b>	462,469	650,925.3	81	0.03	0.04	55.34	14.75	0.03	9.00	0.00	0.00	0.01	0.00	0.01

### Hydrology Quantity (2011 NLCD)

	Transpiration (MG (Millions of Gallons)/yr (year))	Rainfall Interception (MG (Millions of Gallons)/yr (year))	Avoided Runoff (MG (Millions of Gallons)/yr (year))	Avoided Runoff (\$/yr (year))
<b>Selection Total:</b>	1,349.2	914.1	38.7	346,211

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