

Scenario: increase by 10% 25 ft diameter

Area Name	Existing Canopy (%)	Modeled Canopy (%)	Net Change	No. Trees to	Avg Tree Size	Mortality Rate	Annual Added	Est no. trees	Value/tree added	District
C-1	10	20	10	321	25	4	686	3210	2.13707165	Central business
C-2	17	27	10	689	25	4	1,472	6890	2.13642961	General commercial
PCOS	29	39	10	785	25	4	1,676	7850	2.13503185	Parks and open space
R-1	38	48	10	6,098	25	4	13,024	60980	2.13578222	General residential
R-2	57	67	10	3,069	25	4	6,556	30690	2.13620072	Suburban residential
R-LC	22	32	10	478	25	4	1,020	4780	2.13389121	Res light commercial
R-M	23	33	10	527	25	4	1,126	5270	2.13662239	Residential multifamily

Trees to  
take all up  
10%

11967

Est total tree: 119670

Scenario: increase to 40% 25 ft diameter

Area Name	Existing Canopy (%)	Modeled Canopy (%)	Net Change	No. Trees to	Avg Tree Size	Mortality Rate	Annual Added	Eco-Benefits (\$)
C-1	10	40	30	954	25	4	2,037	
C-2	17	40	23	1,588	25	4	3,391	
PCOS	29	40	11	842	25	4	1,799	
R-1	38	40	2	1,142	25	4	2,439	
R-2	57	40	-17	-5,046	25	4	-10,778	
R-LC	22	40	18	875	25	4	1,868	
R-M	23	40	17	887	25	4	1,895	

Sum of residue 3,746

30 ft diameter

Area Name	Existing Canopy (%)	Modeled Canopy (%)	Net Change	No. Trees to	Avg Tree Size	Mortality Rate	Annual Added	Eco-Benefits (\$)
C-1	10	40	30	662	30	4	2,037	
C-2	17	40	23	1,103	30	4	3,391	
PCOS	29	40	11	585	30	4	1,799	
R-1	38	40	2	793	30	4	2,439	
R-2	57	40	-17	-3,504	30	4	-10,778	
R-LC	22	40	18	607	30	4	1,868	
R-M	23	40	17	616	30	4	1,895	

Districts: General Residential District (R-1).

This district is composed of certain moderate-density residential areas, plus certain open areas where similar development appears likely to occur. The regulations for this district are designed to stabilize and protect the essential characteristics of the district and to promote and encourage, insofar as is compatible with the intensity of land use, a suitable environment for family life composed of a family population. For this reason, the number of unrelated individuals permitted to constitute a household unit is limited to a maximum of three in this district. Residential structures for both permanent and transient occupancy, including institutions, may be authorized.

B.

Suburban Residential District (R-2).

This district is composed of low-density residential areas containing mostly single-family homes as well as vacant areas where development of a similar nature is most appropriate. The regulations for this district are designed to stabilize and protect the essential characteristics of the district and to promote and encourage a suitable environment for family life composed of a family population. For this reason, the number of unrelated individuals permitted to constitute a household unit is limited to a maximum of three in this district. Residential structures for both permanent and transient occupancy, including institutions, may be authorized.

C.

Multifamily Residential District (R-M).

This district is intended to establish areas where housing of a medium-density capacity can be located. For this reason, a maximum of four unrelated individuals are authorized to constitute a household unit in all types of dwelling units in this district. The regulations of this district provide that multiple-family dwellings, such as apartment houses, townhouses, garden apartments, etc., may be developed in appropriate areas, well located with respect to major roads, shopping facilities and employment centers. Such developments are allowed in a manner which provides a suitable and comfortable living environment for people of all ages. Community facilities needed to support these developments are permitted. While these developments are of a medium density, they tend to be small in scale and therefore would be compatible with adjacent land uses.

D.

Residential Light Commercial (R-LC).

This district is established to provide areas where housing can be located adjacent to or in conjunction with light commercial operations compatible in nature with residential land use. For this reason, a maximum of four unrelated individuals are authorized to constitute a household unit in all types of dwelling units in this district. The regulations applicable to this district provide that single-family dwellings and multiple-family dwellings, such as



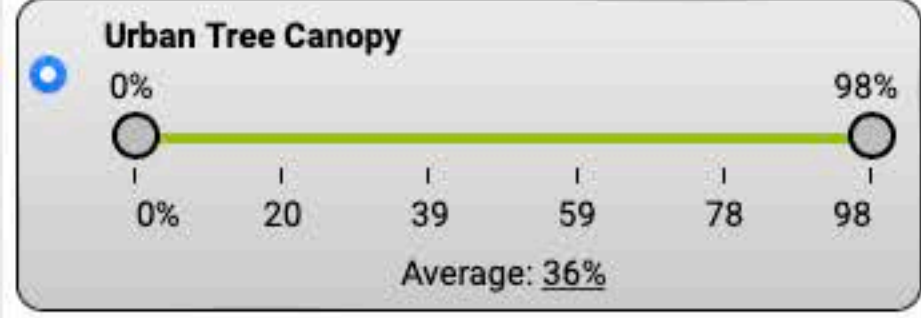
VIEW PLAN GROW

Use the slider bars below to make maps of existing Urban Tree Canopy and/or Possible Planting Areas.

RESET VIEW RESET ALL

Select a Geography

Census Blocks

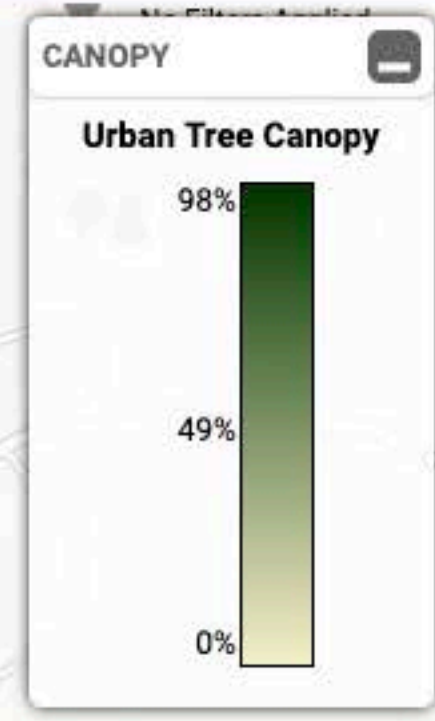
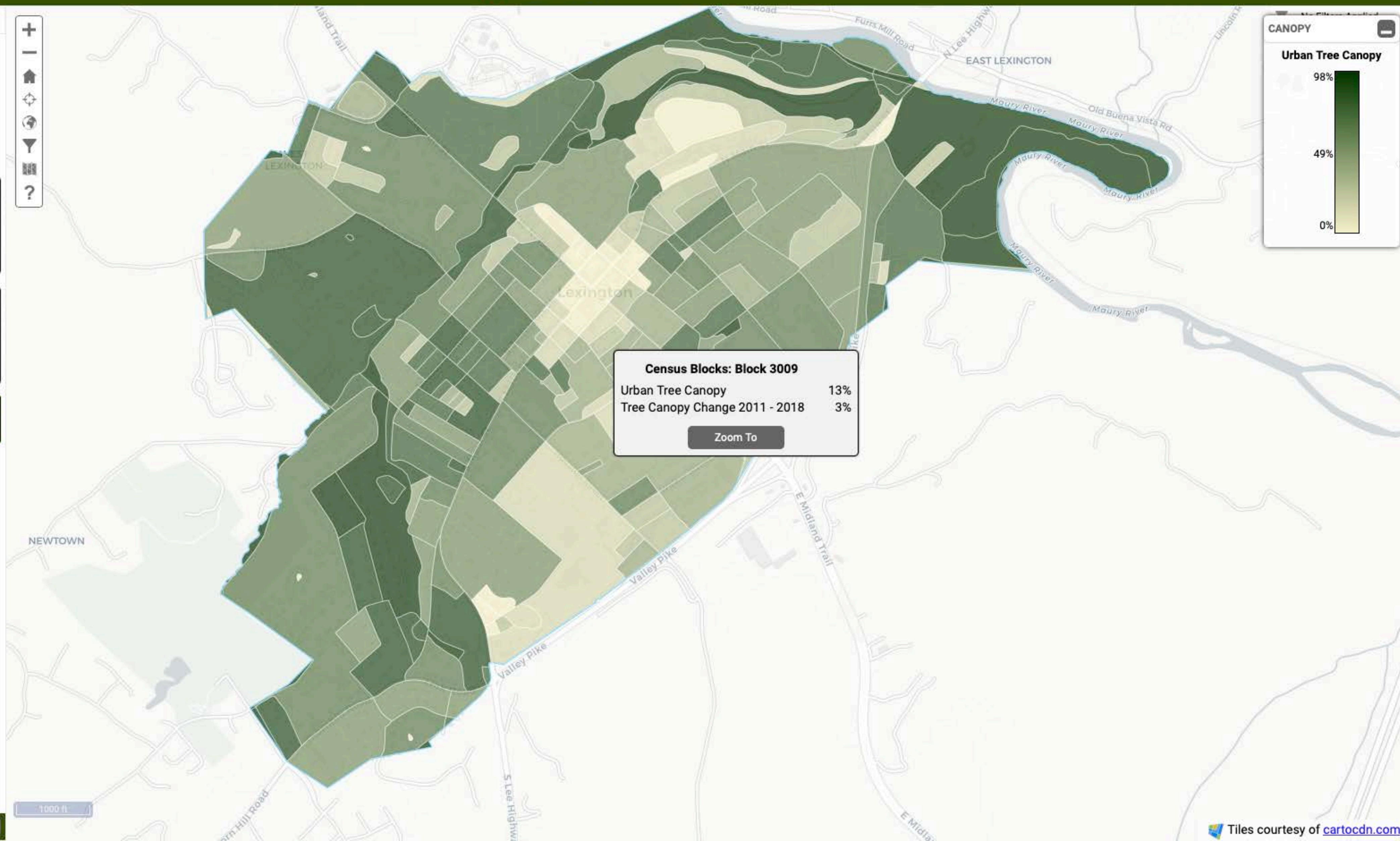


Options

Disable Info Tip

CLOSE CANOPY

Map navigation controls: zoom in (+), zoom out (-), home, pan, full screen, layers, help (?).



**Census Blocks: Block 3009**

Urban Tree Canopy	13%
Tree Canopy Change 2011 - 2018	3%

Zoom To





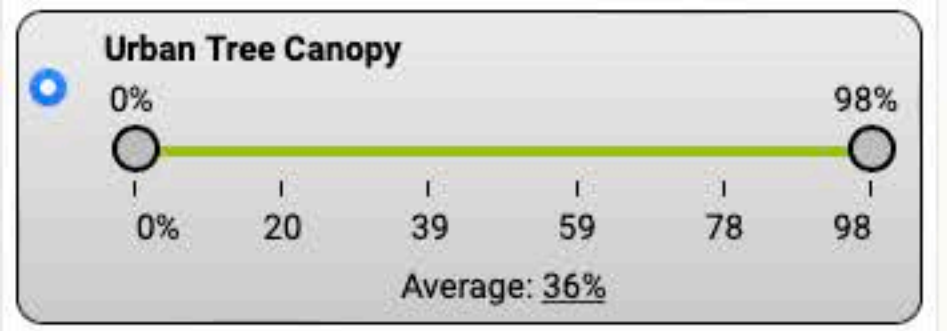
VIEW PLAN GROW

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RESET VIEW RESET ALL

Select a Geography

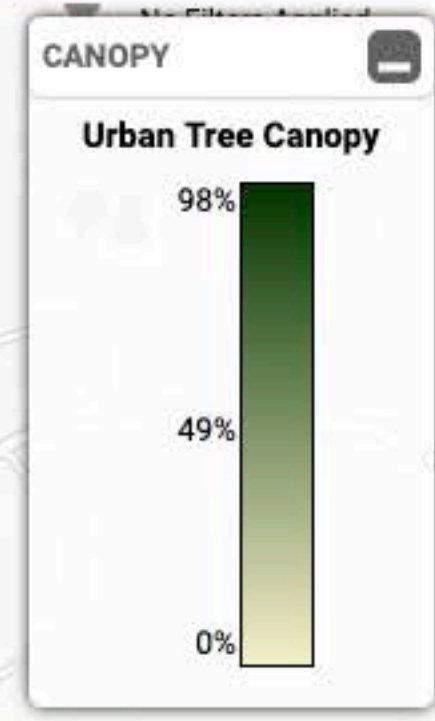
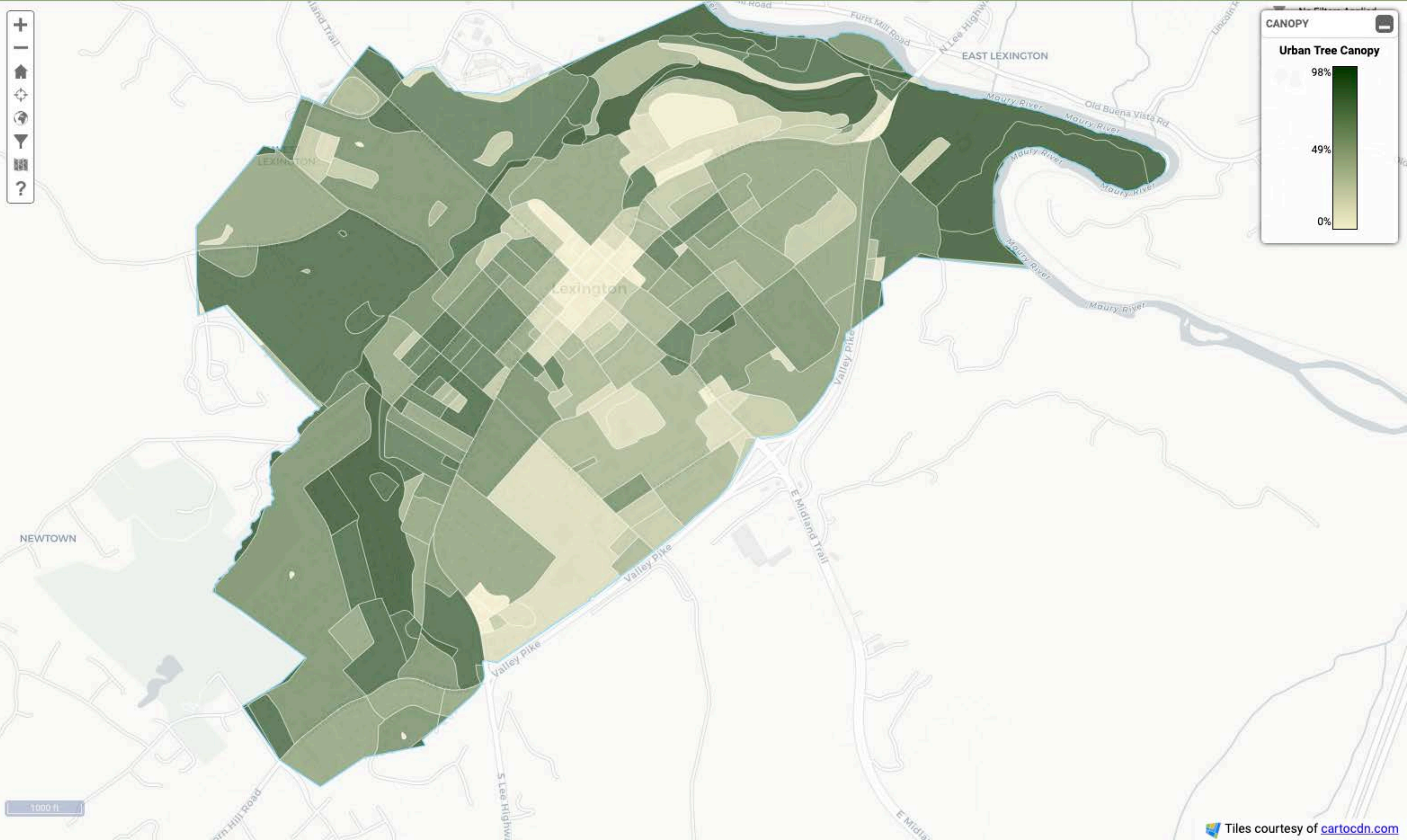
Census Blocks



Options

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1000 ft



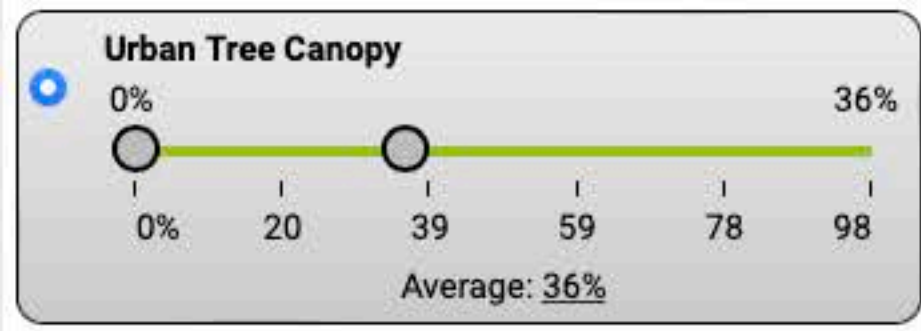
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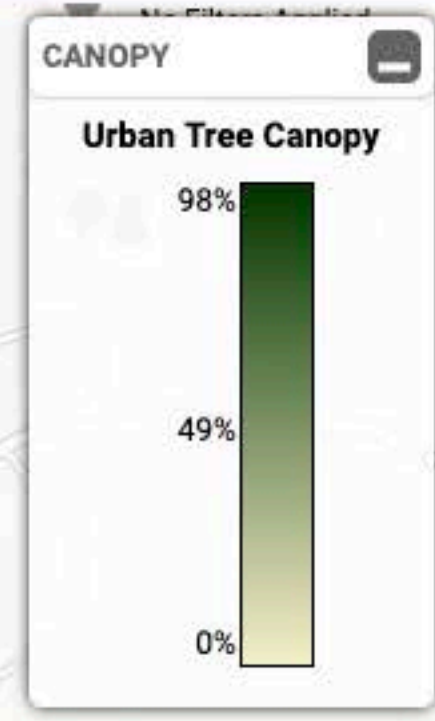
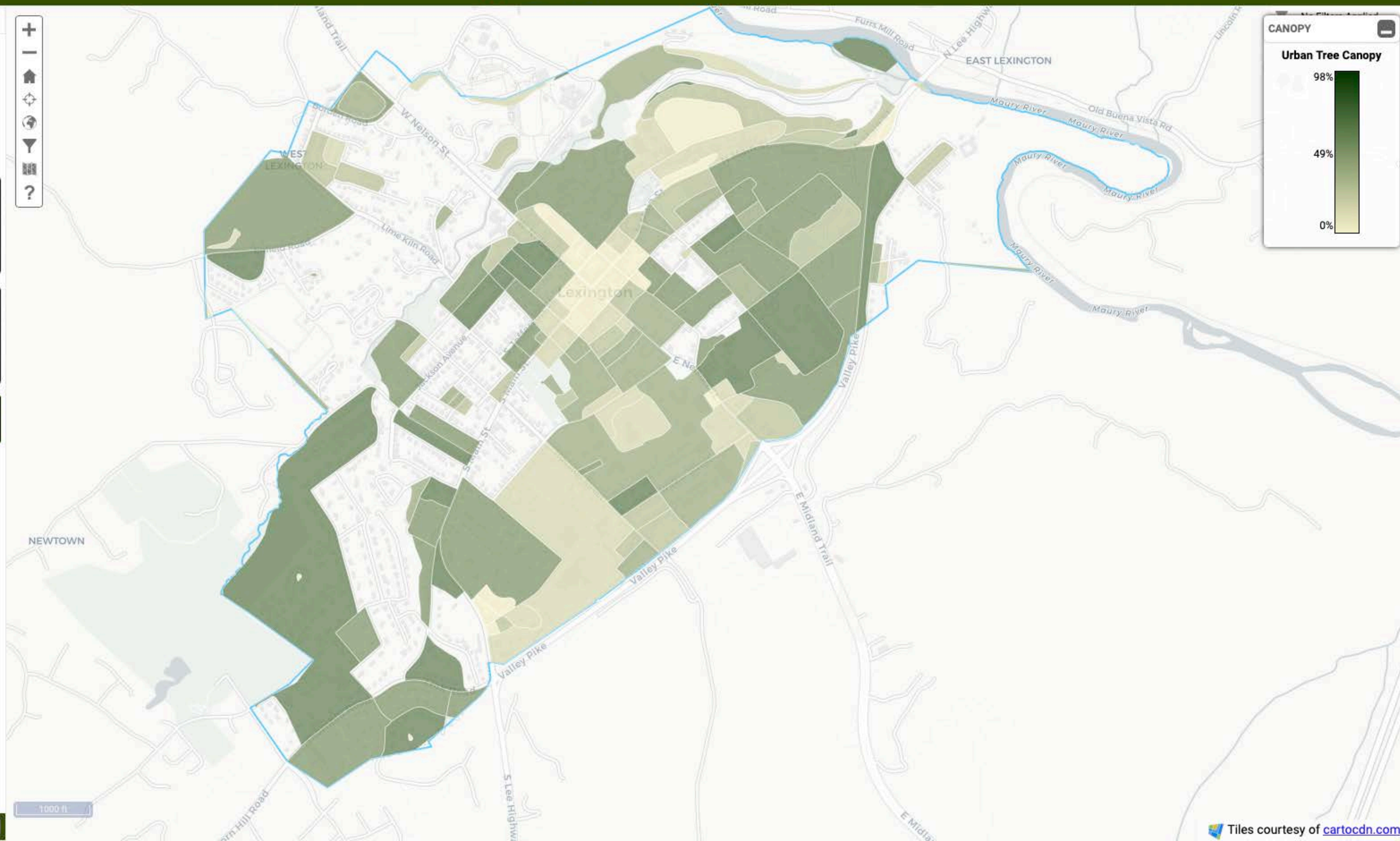
Census Blocks



Options

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1000 ft





Lexington VA



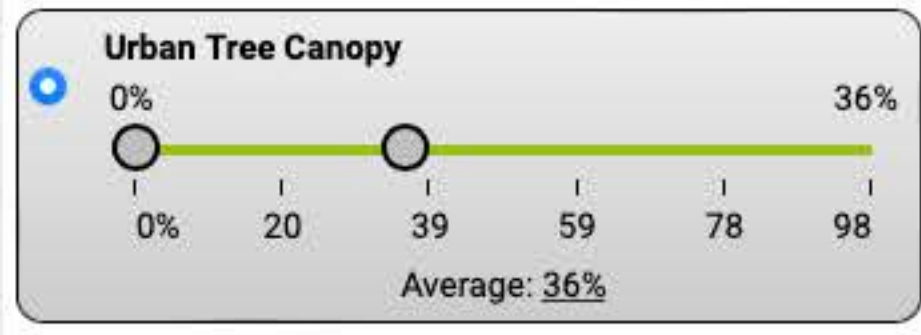
VIEW PLAN GROW

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RESET VIEW RESET ALL

Select a Geography

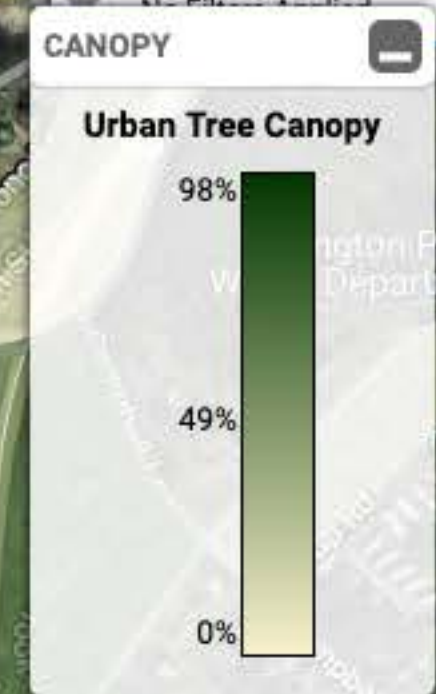
Census Blocks



Options

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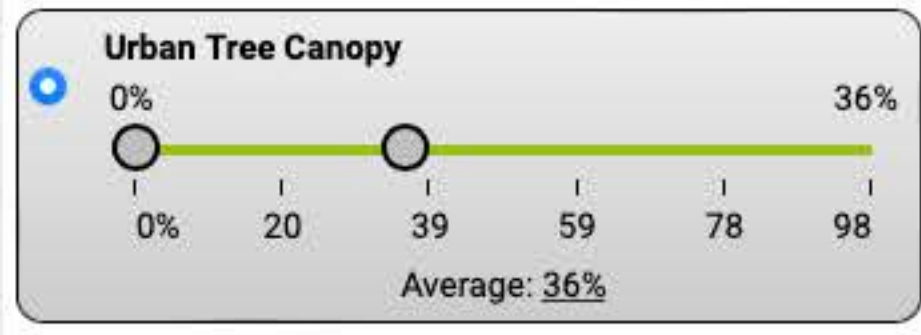
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Options


Disable Info Tip

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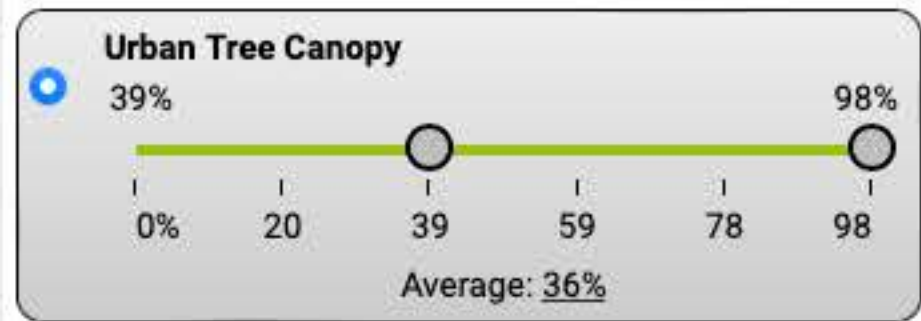
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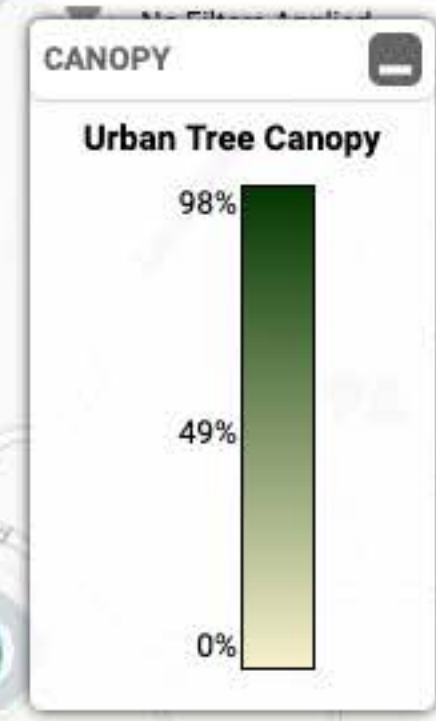
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Options

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1000 ft

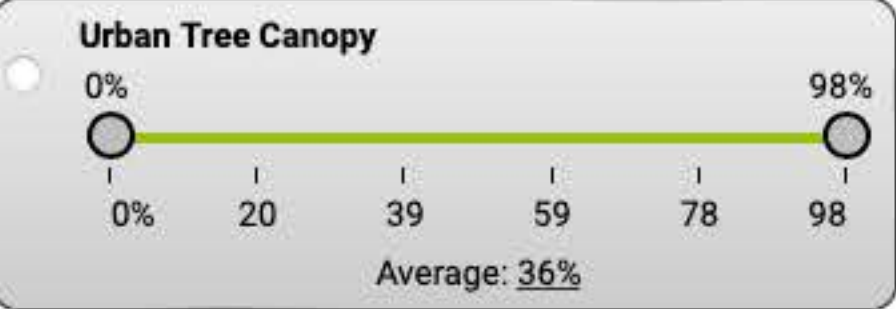


VIEW PLAN GROW

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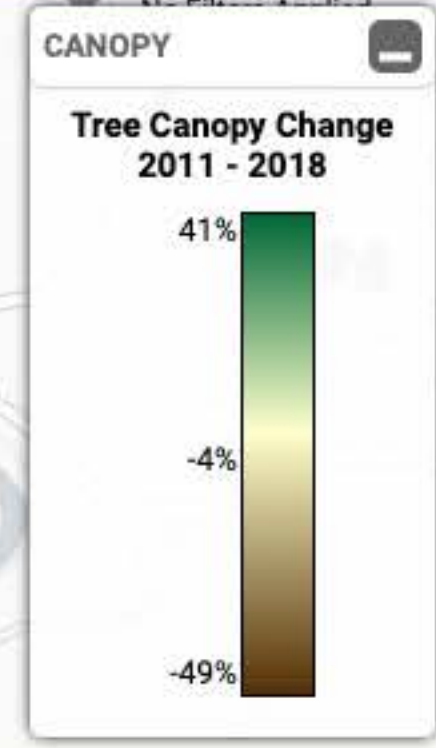
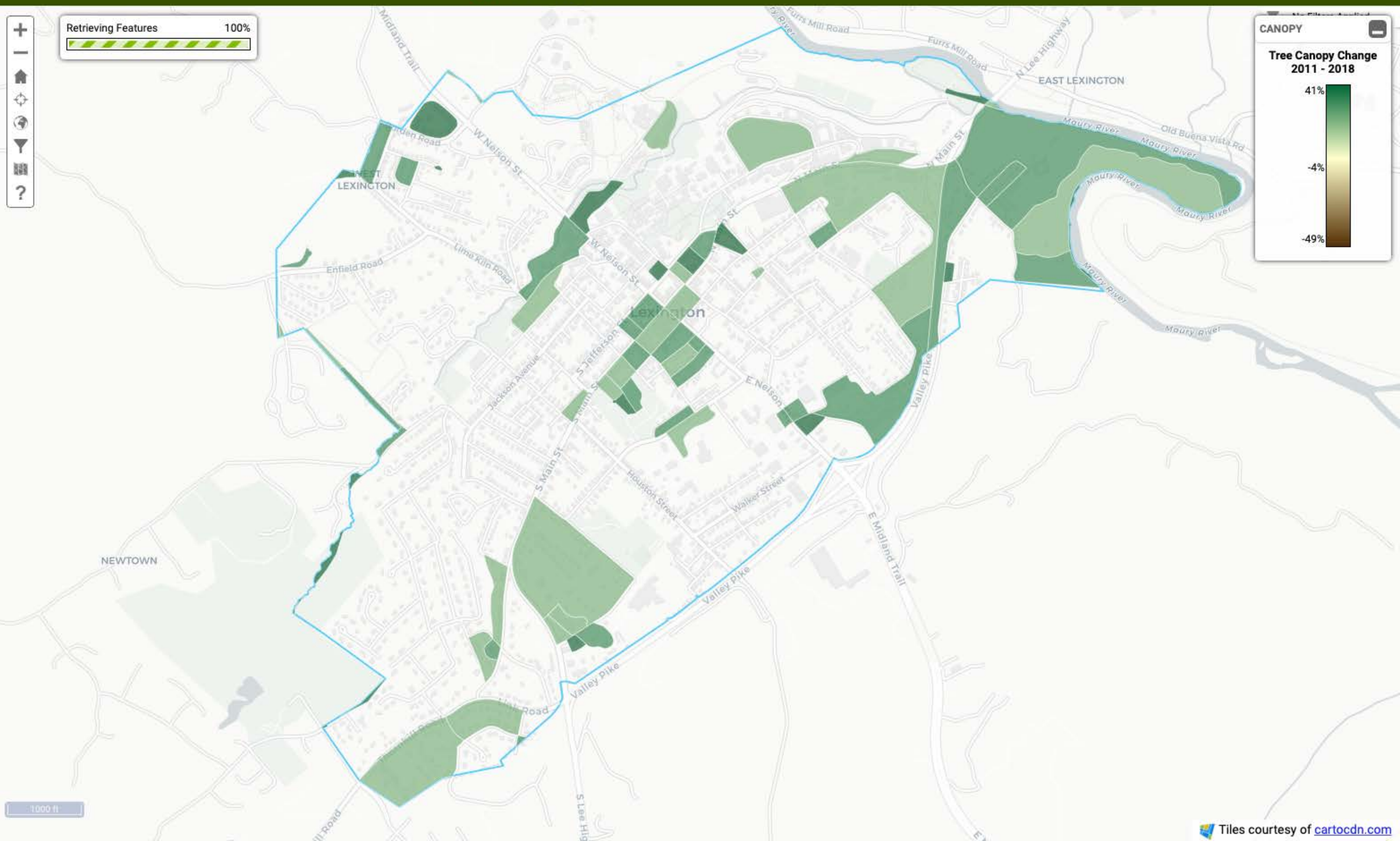
RESET VIEW RESET ALL

Select a Geography  
Census Blocks



Options  
 Disable Info Tip

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1000 ft

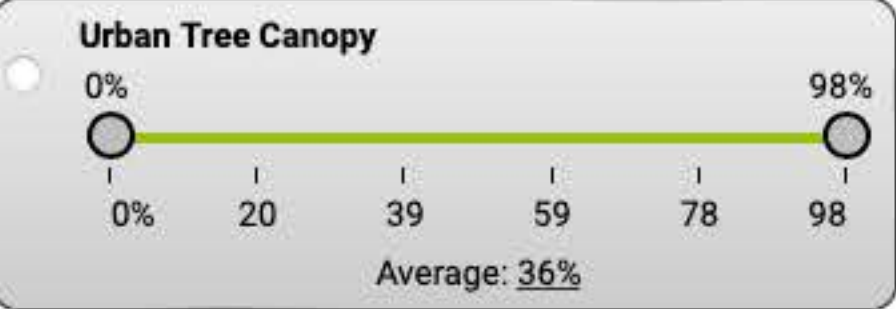


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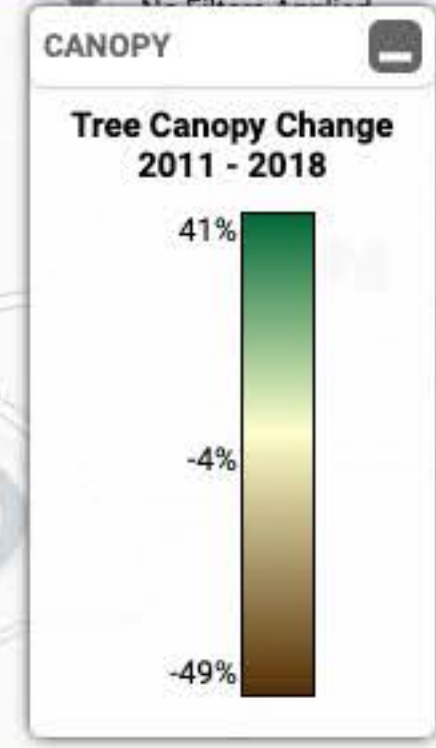
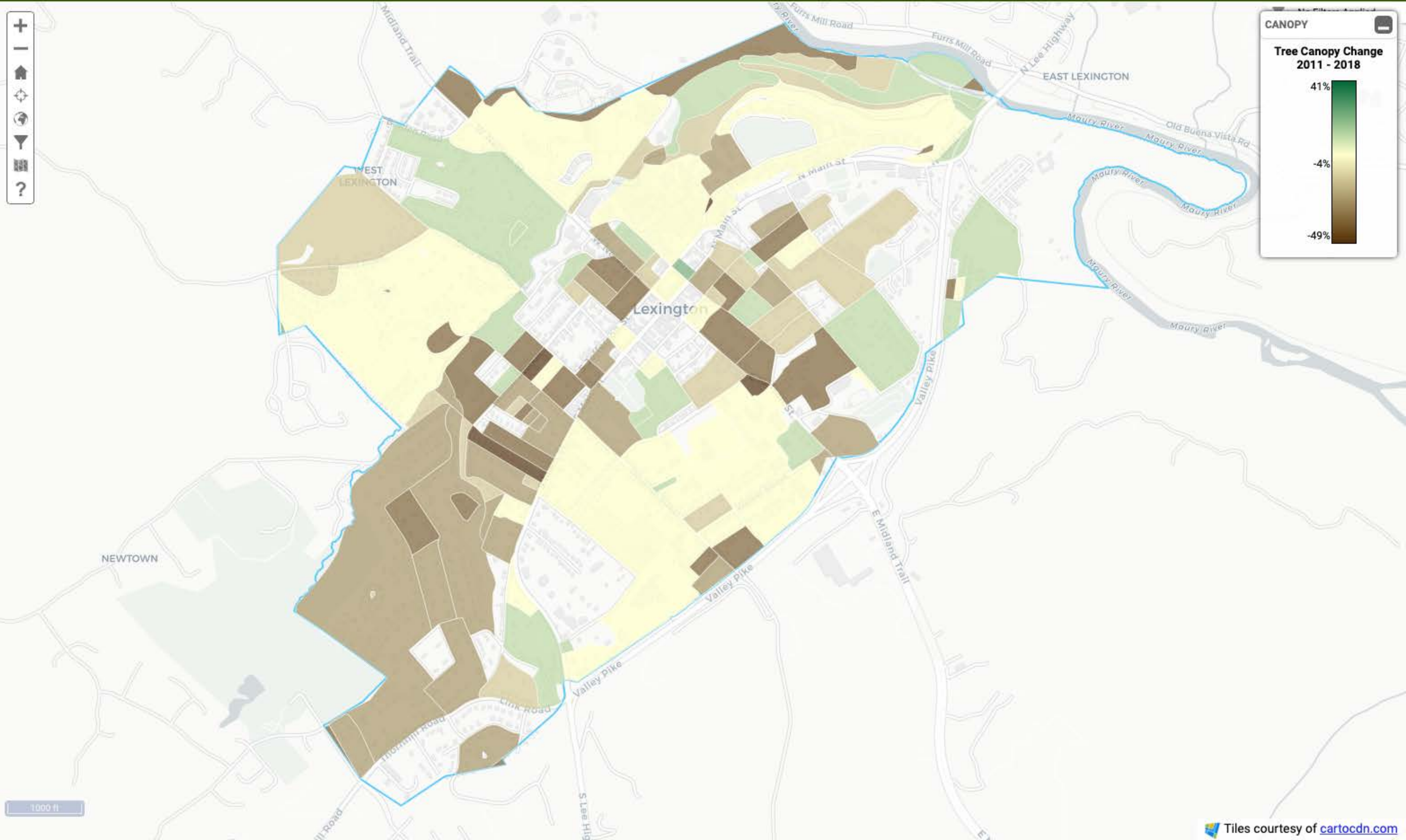
RESET VIEW RESET ALL

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Census Blocks



Options  
 Disable Info Tip

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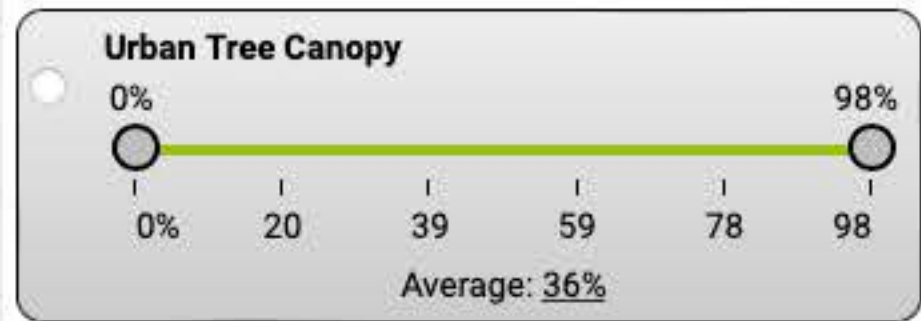
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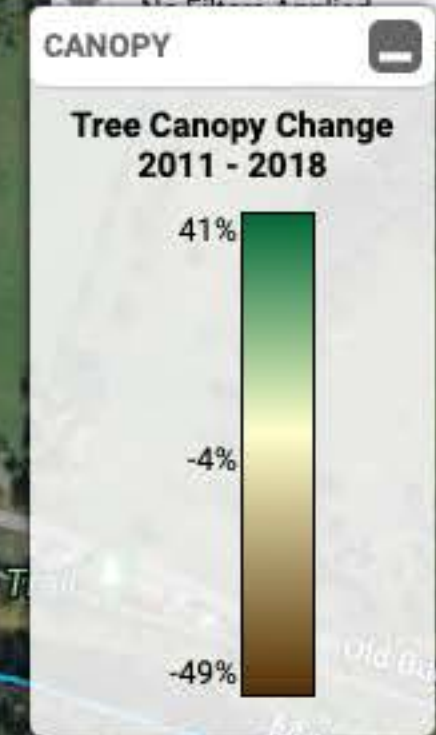
Census Blocks



Options

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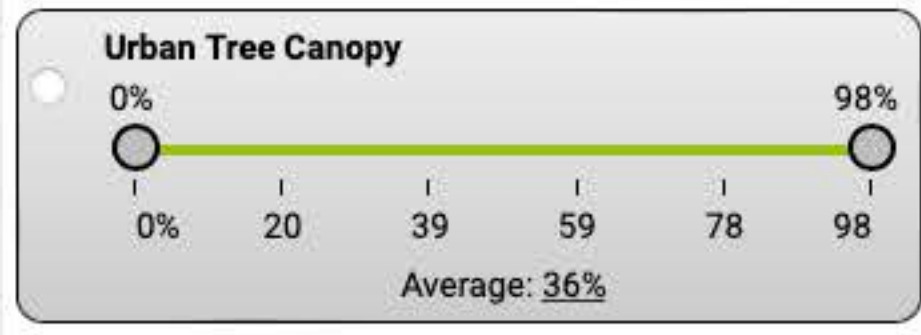


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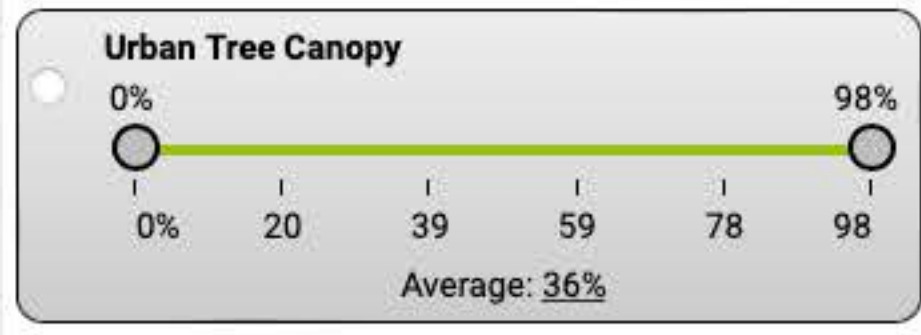
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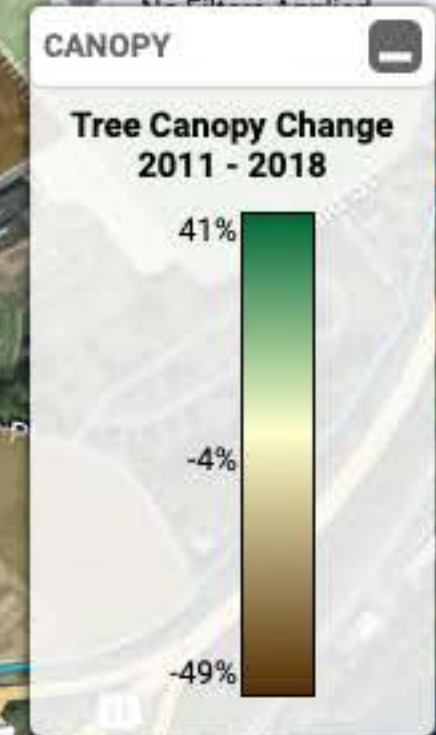
Census Blocks



Options

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RESET PLAN RESET ALL

1. Select a Geography

Census Block Groups

2. Set All Weight Priorities to:

None Low Medium High

Areas With Low Existing Tree Canopy Medium

NatureScore™ Medium

Median Household Income Medium

People of Color % Medium

People in Poverty % Medium

Vulnerable Population Medium

Unemployment % Medium

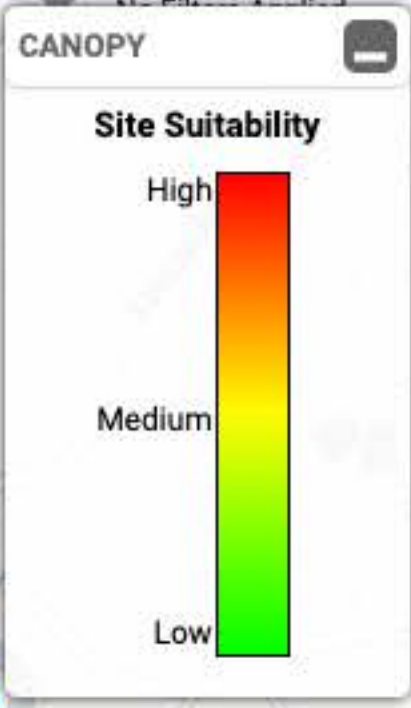
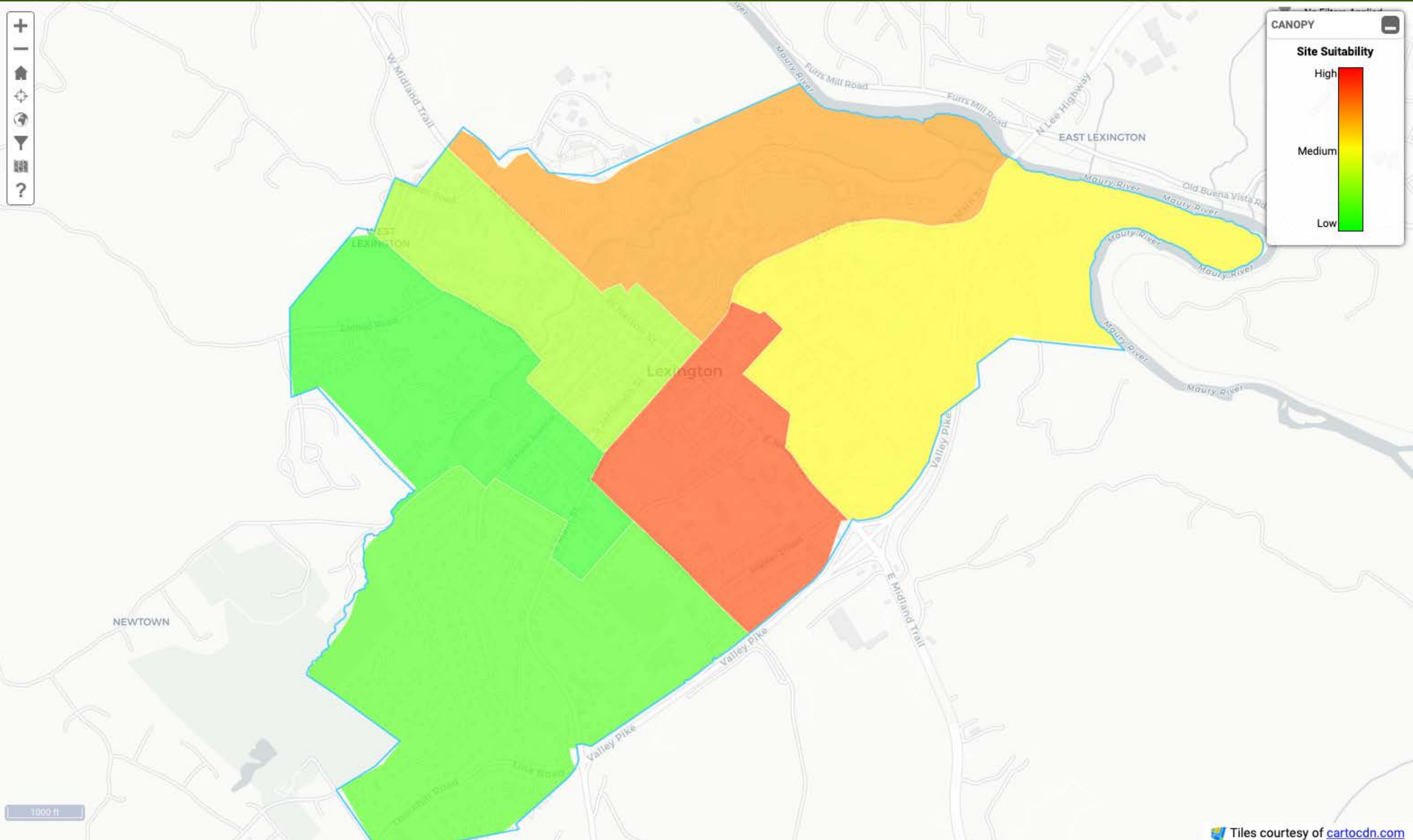
3. Filter by Site Suitability



Options Disable Info Tip

CLOSE CANOPY

Map navigation controls: zoom in (+), zoom out (-), home, full screen, layers, help (?).



1000 ft

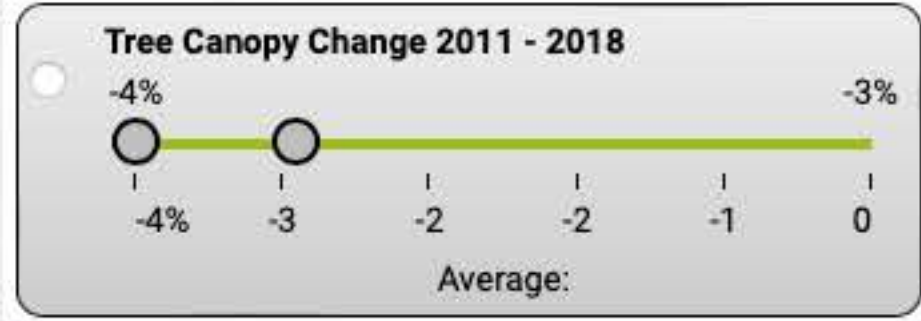
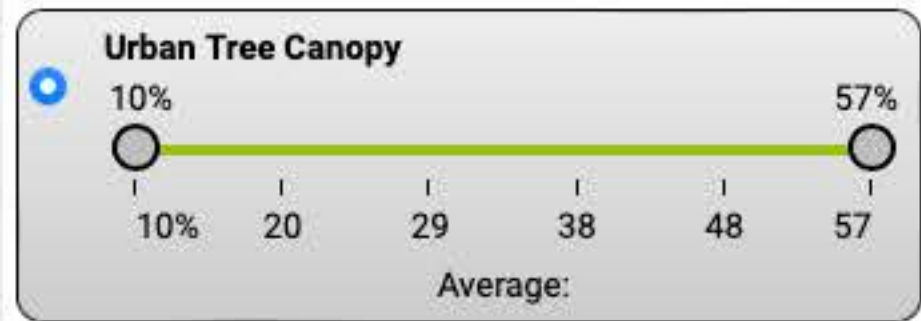


Use the slider bars below to make maps of existing Urban Tree Canopy and/or Possible Planting Areas.

RESET VIEW RESET ALL

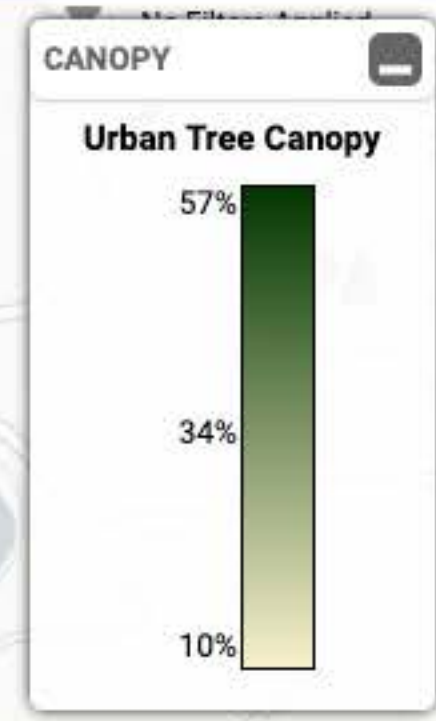
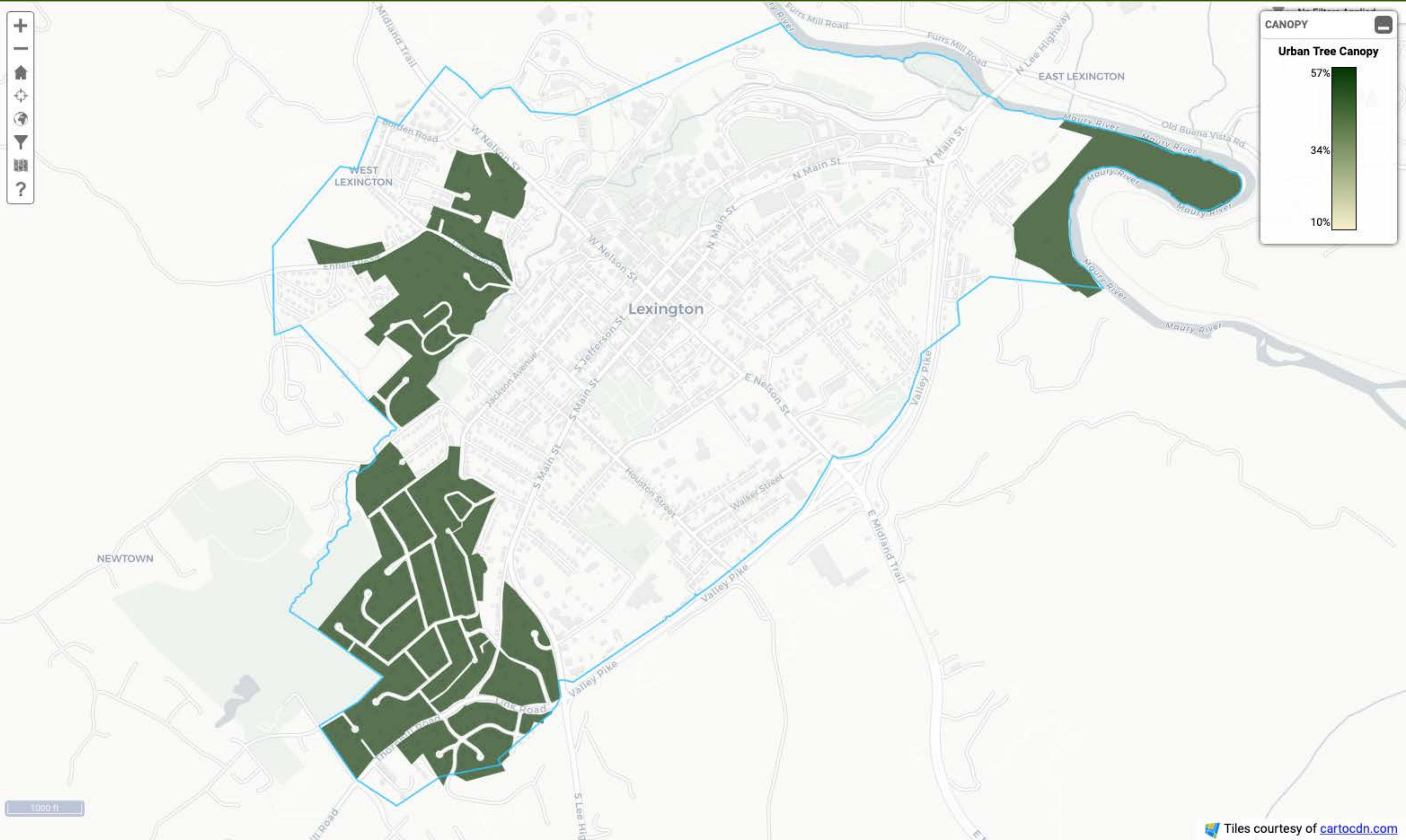
Select a Geography

Zoning



Options  
 Disable Info Tip

CLOSE CANOPY



1000 ft



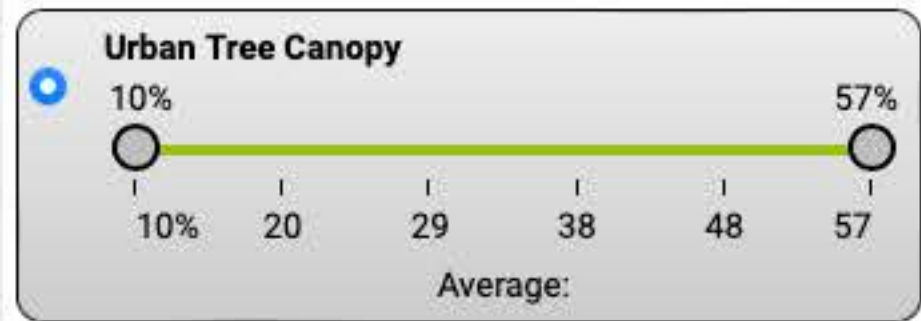
VIEW PLAN GROW

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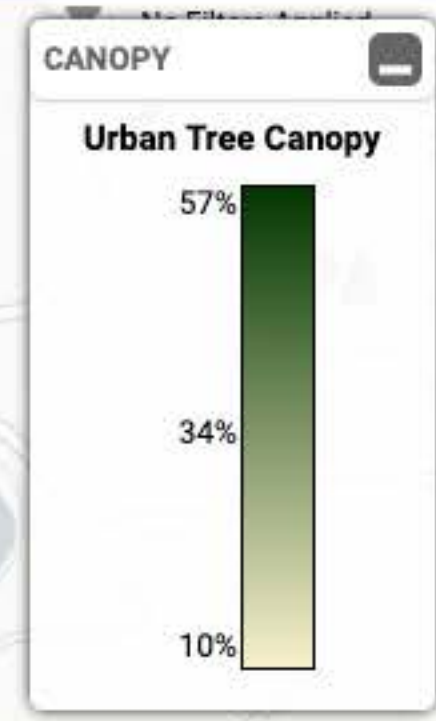
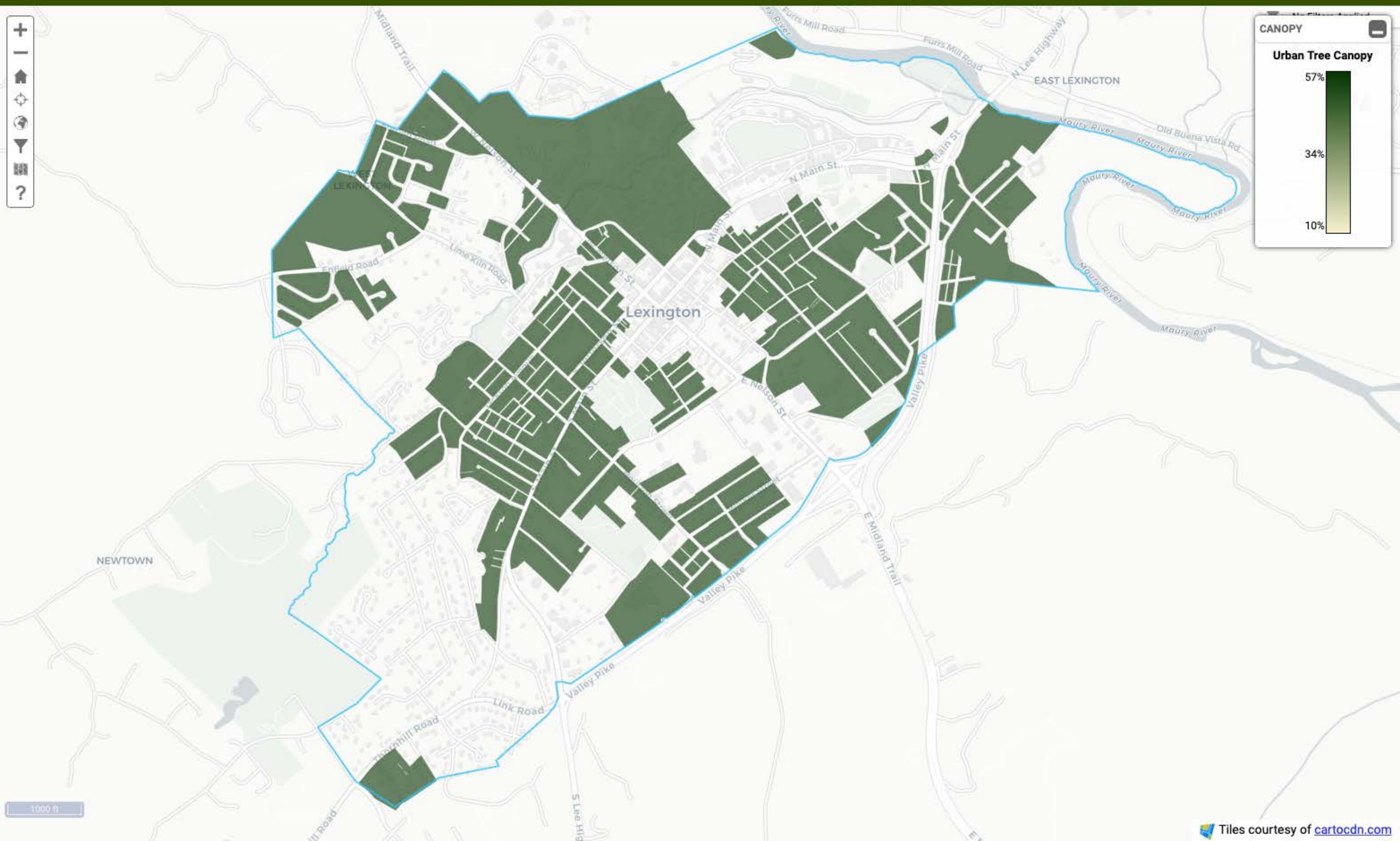
Select a Geography

Zoning



Options  
 Disable Info Tip

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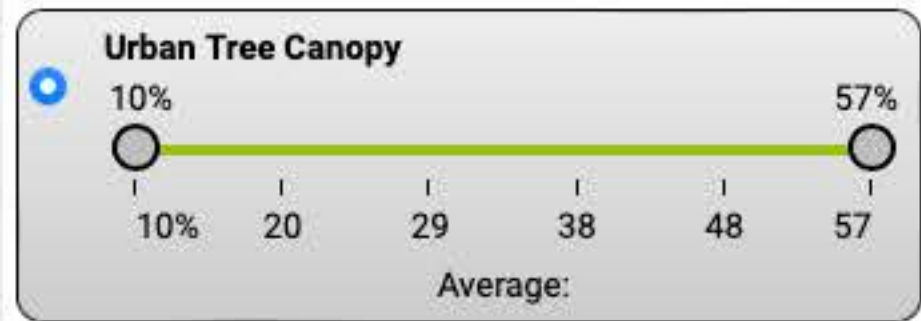


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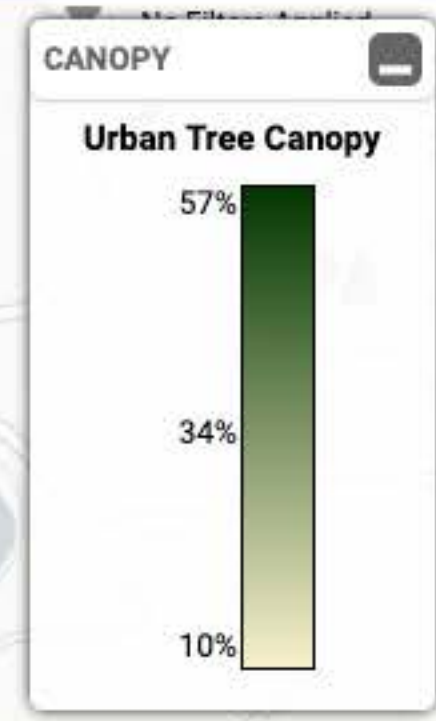
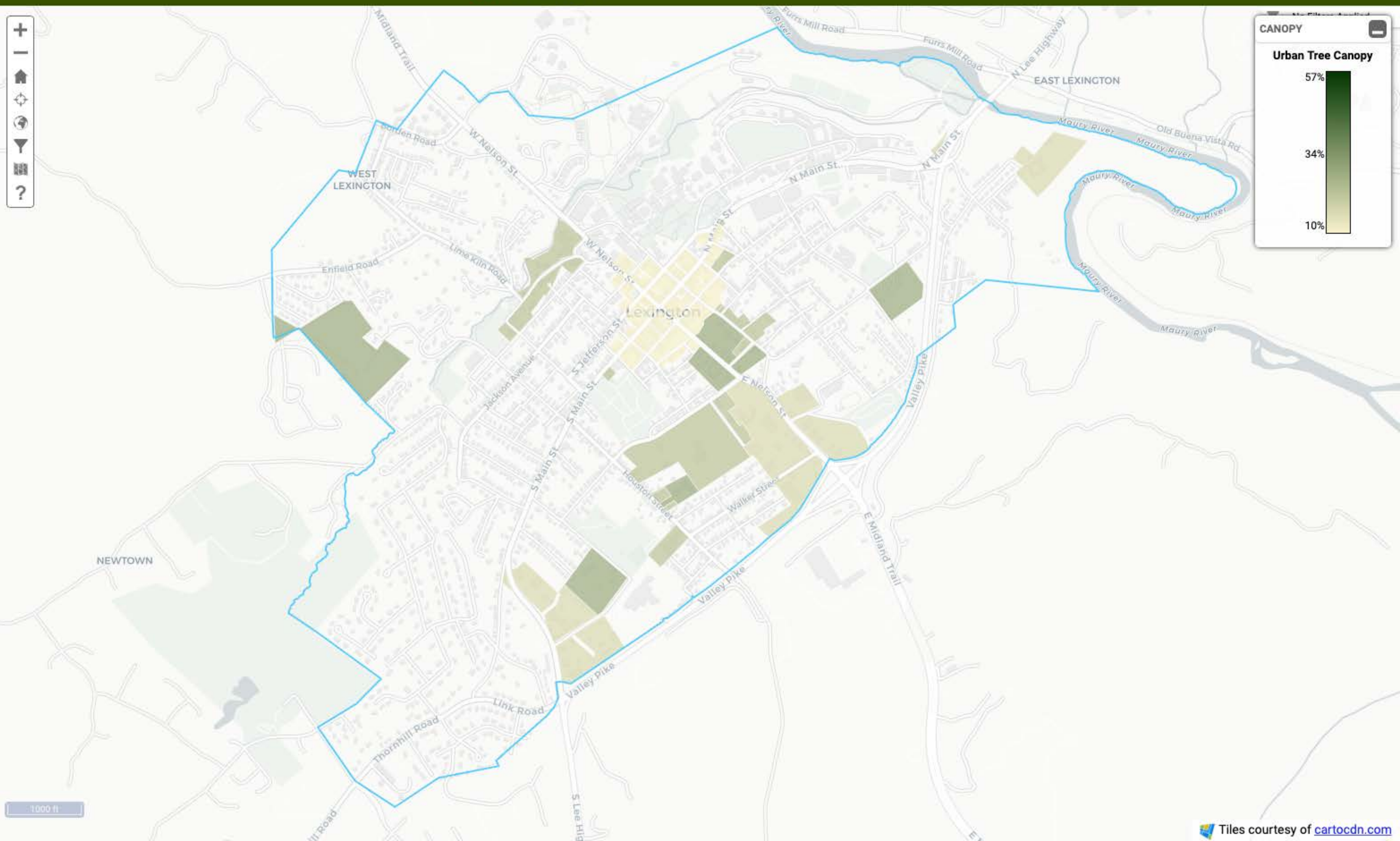
Select a Geography

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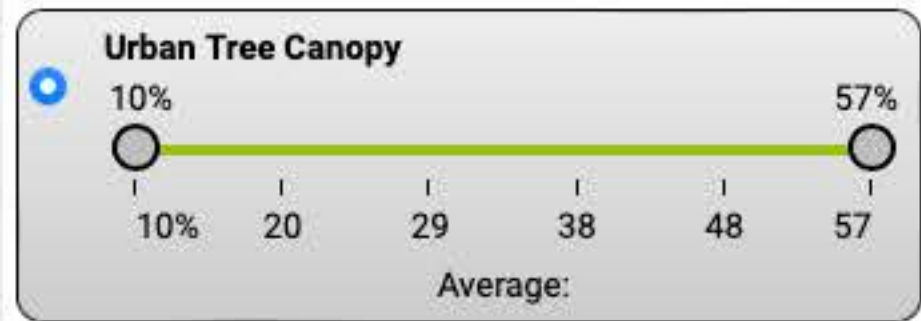


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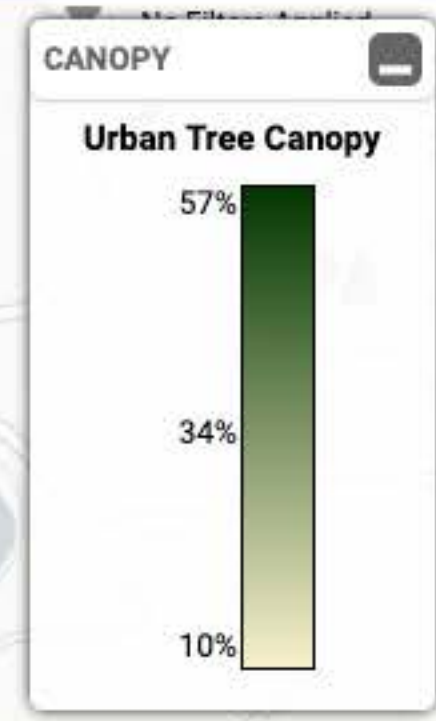
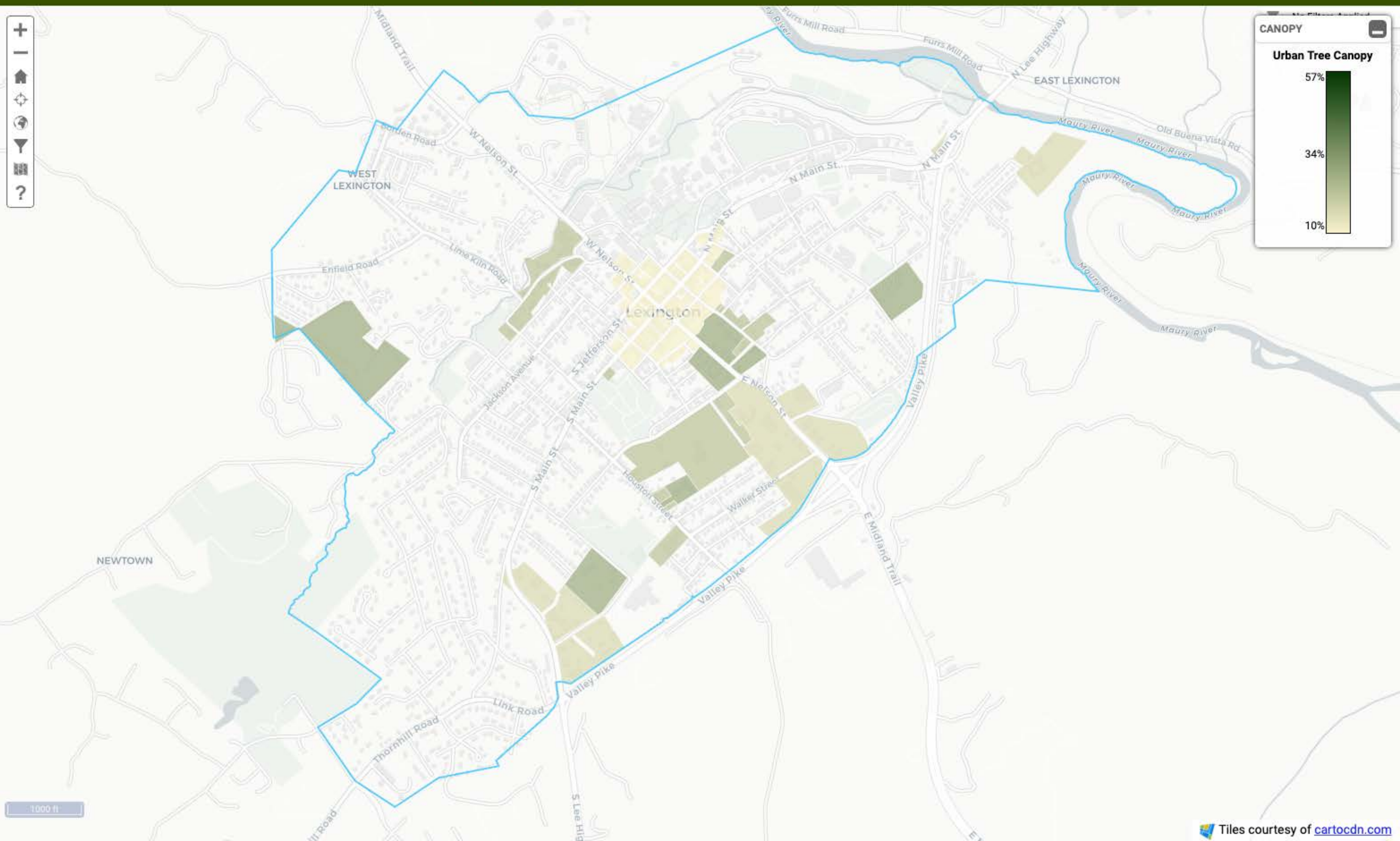
Select a Geography

Zoning



Options  
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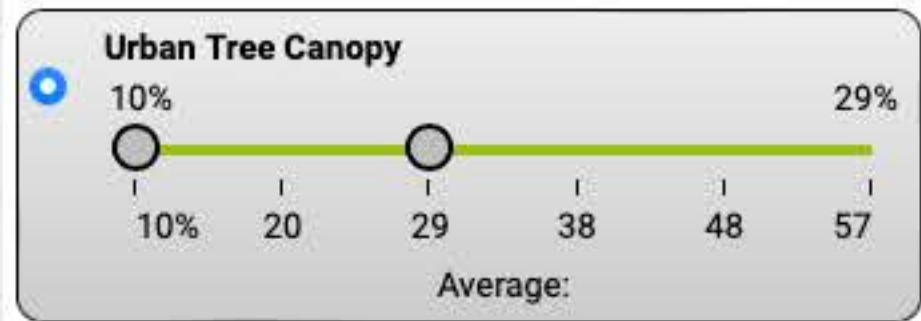


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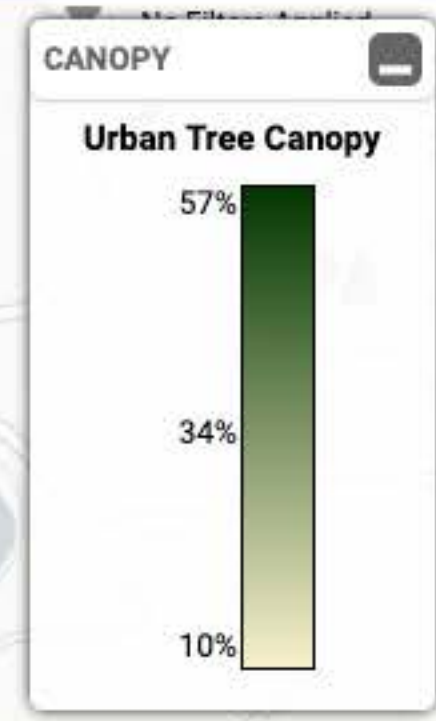
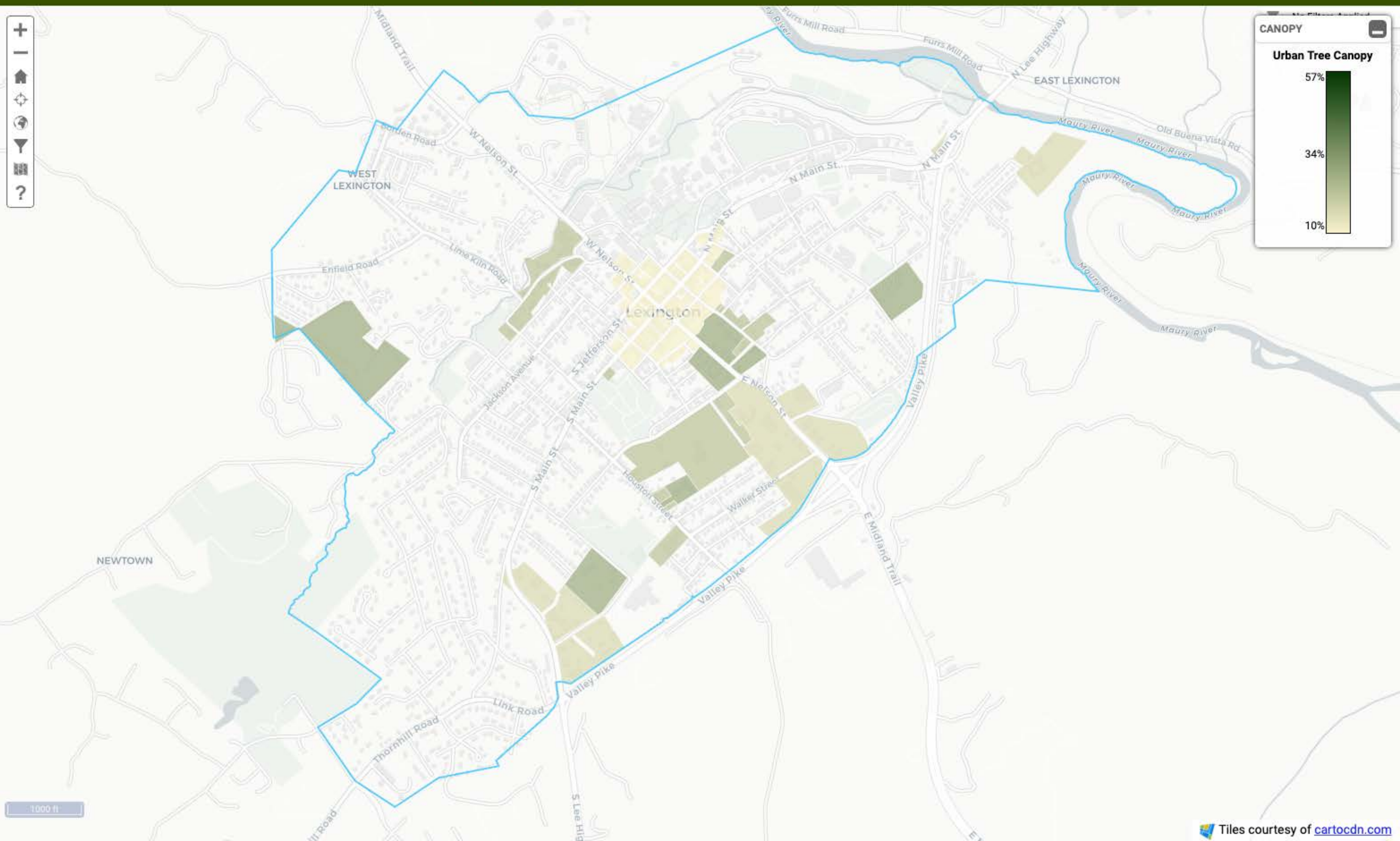
Select a Geography

Zoning



Options  
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CLOSE CANOPY



1000 ft

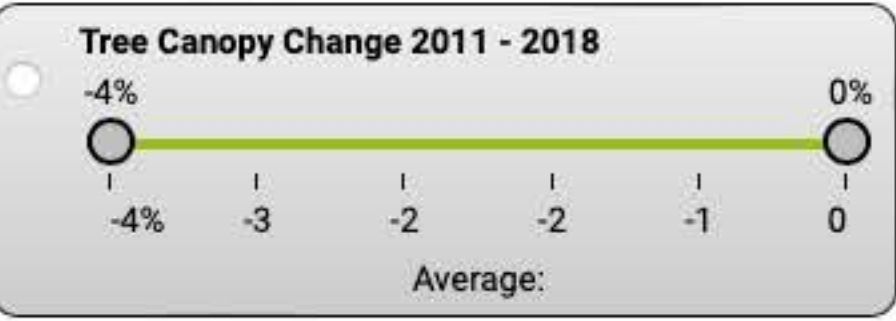
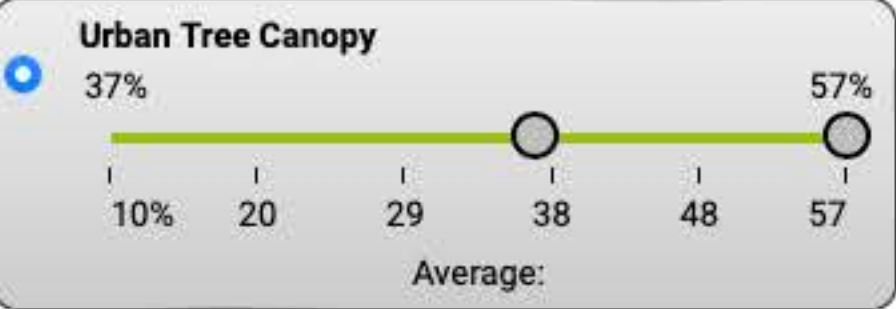


VIEW PLAN GROW

Use the slider bars below to make maps of existing Urban Tree Canopy and/or Possible Planting Areas.

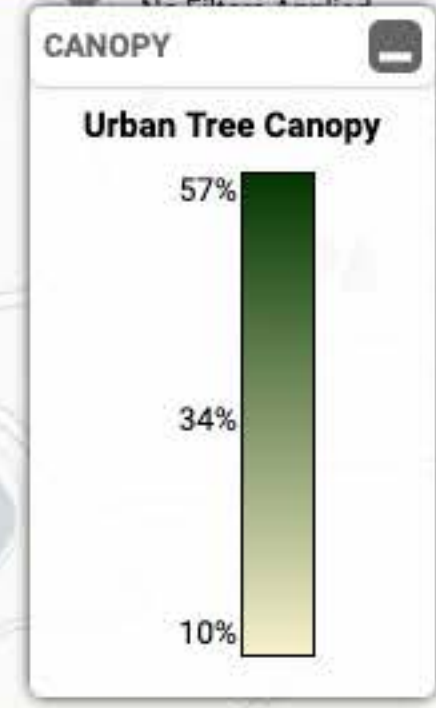
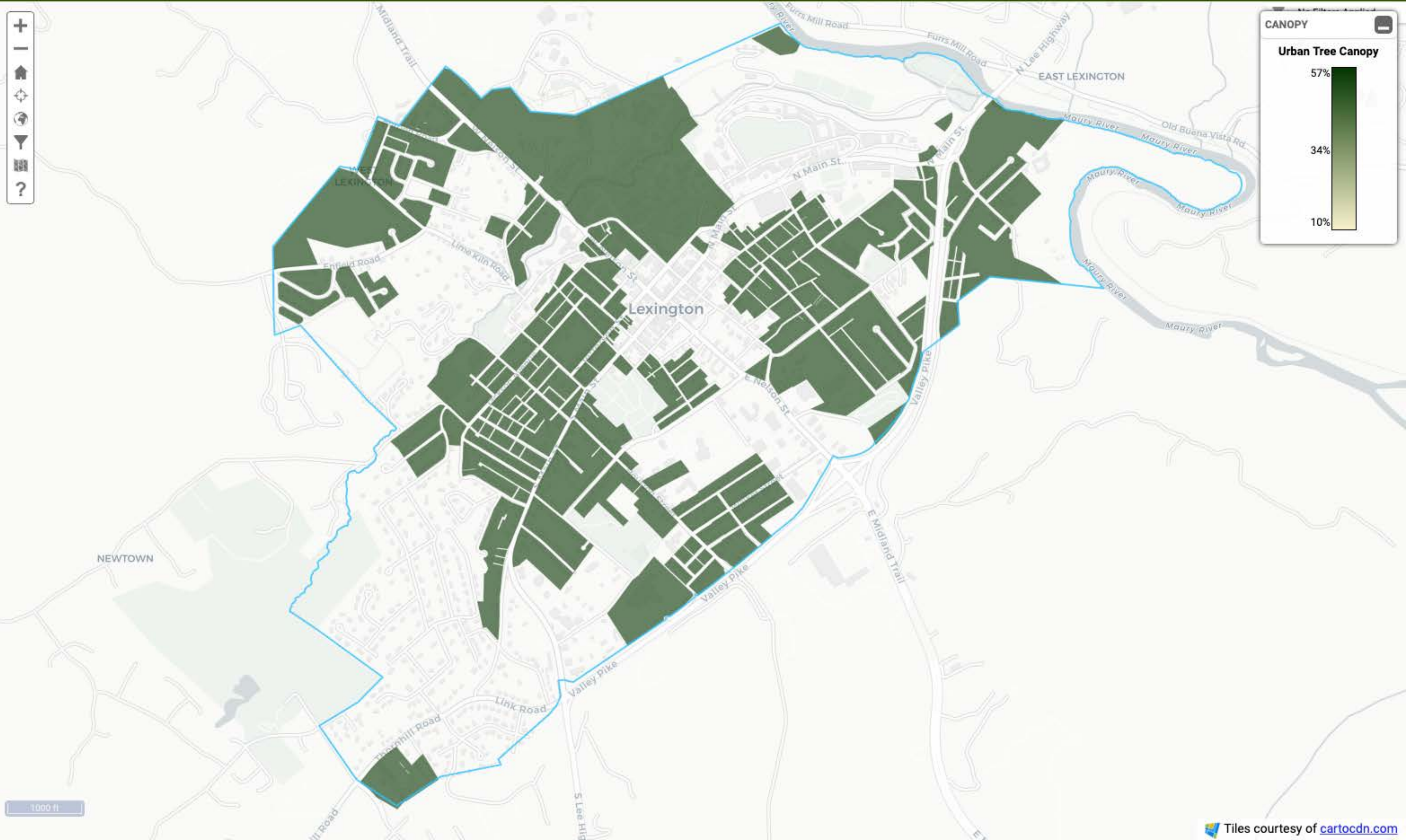
RESET VIEW RESET ALL

Select a Geography Zoning



Options  Disable Info Tip

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1000 ft



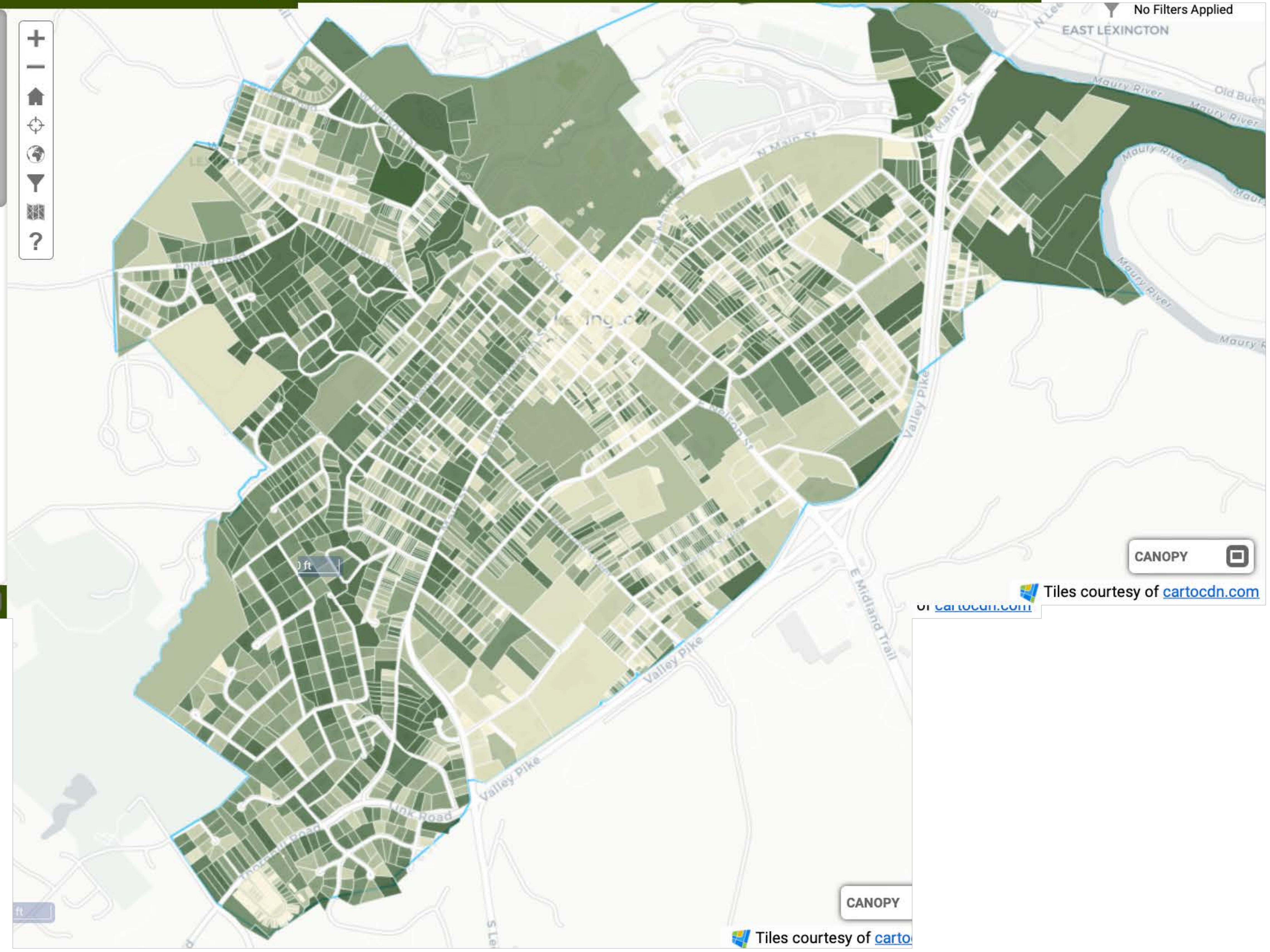
The **Grow** tool is designed to help evaluate potential urban tree canopy goals and the number of trees to reach the goal. With just three inputs - canopy %, mortality rate, and average tree size at maturity - the tool outputs how many trees are needed, what the impact is on canopy cover regionally, and the impact on urban forest ecosystem services. **Grow** can be used incrementally, e.g. add 10% canopy to one or more areas using a medium size stature tree, and then add 5% canopy to other areas using a large stature average tree size, then evaluate the results.

**Grow** is meant to be a simple tool to assist communities in developing tree planting and canopy goals. To keep it simple, factors such as natural regeneration and the impacts from land development have not been taken into account.

RESET GROW RESET ALL

ASSUMPTIONS

Select a Geography  
Land Use  
Target Canopy %



CANOPY

Tiles courtesy of [cartocdn.com](http://cartocdn.com)

CANOPY

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