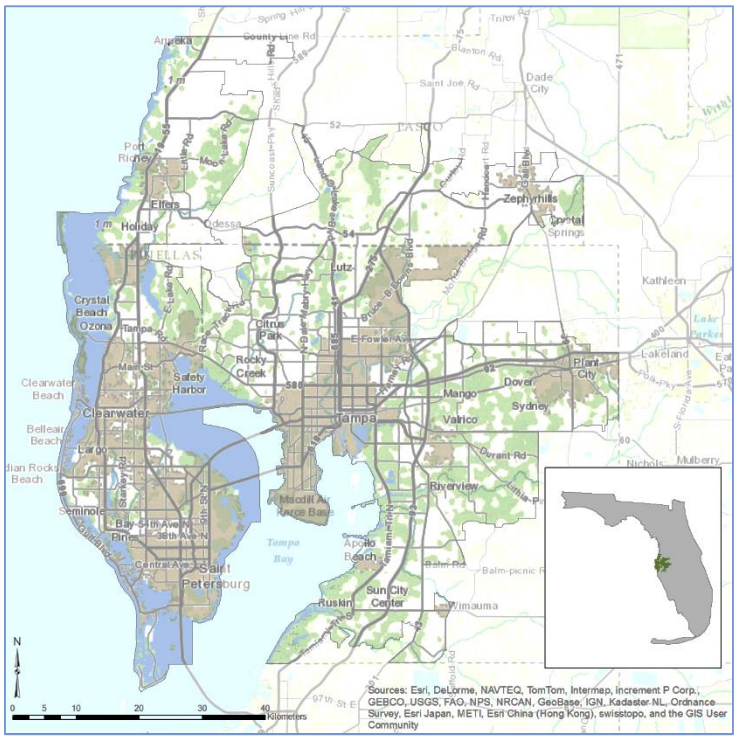
Tampa, FL and surrounding area

EnviroAtlas combines maps, graphs, and other analysis tools, fact sheets, and downloadable data into an easy-to-use, web-based educational and decision-support tool. EnviroAtlas helps users understand the connections between the benefits we derive from ecosystem services and the natural resources that provide them. For more information, please visit our website.

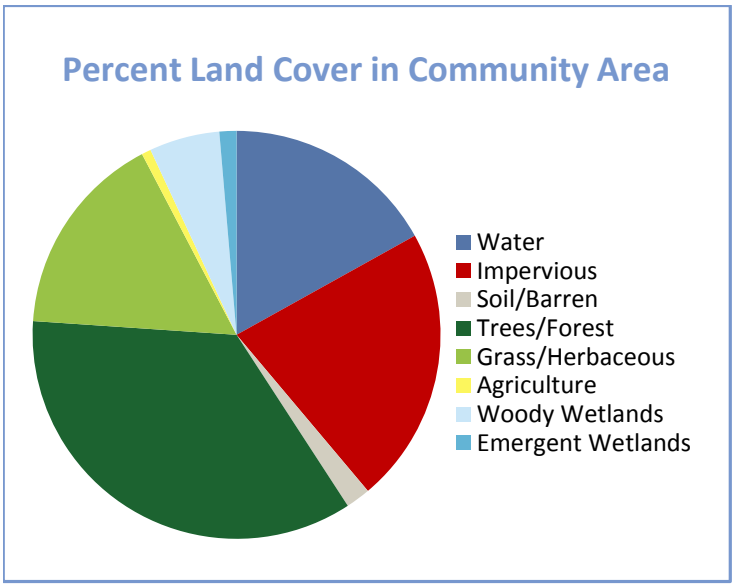
For selected U.S. communities, EnviroAtlas includes fine-scale maps and other information about existing and potential benefits from the local natural environment. This fact sheet highlights some of the many community data layers available.



Background

The Tampa, FL area was chosen as an EnviroAtlas pilot community based on its inclusion in EPA's Ecosystem Services Research Program. The EnviroAtlas boundary for the Tampa area was determined using the 2010 Census definition of an Urban Area. It includes Tampa, Clearwater, and St. Petersburg, as well as portions of Hillsborough, Pinellas, and Pasco Counties. The Tampa area measures 3,757 square kilometers, and encompasses 2,434 census block groups.

The Tampa, FL area is in the Southern Coastal Plain ecoregion. It has a mild, humid, sub-tropical climate with hot, humid summers and mild winters. This area is vegetated with longleaf pine flatwoods and savannas, although much of the area has been converted to agricultural use. The community has a very diverse economy and serves as the headquarters for several Fortune 1000 companies. The largest employers include Publix, BayCare Healthcare Systems and Verizon Communications. The demographics of the Tampa community area indicate that the potential exists for income and other disparities in the distribution of environmental assets. EnviroAtlas includes demographic maps that can help screen for potential health and well-being disparities resulting from disproportionate distribution of "green infrastructure."



Tampa Area Demographics	
Total population	2,517,798
Under 13 years old	15.03%
Over 70 years of age	11.85%
Other than white/non-Hispanic	33.75%
Below twice the poverty level	31.36%

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Ecosystem Services Overview

In EnviroAtlas, ecosystem services are organized into seven benefit categories:

- Clean air
- Clean and plentiful water
- Natural hazard mitigation
- Climate stabilization
- Recreation, culture, and aesthetics
- Biodiversity conservation
- Food, fuel, and materials (data available only in select communities)

Examples of some of the data included in EnviroAtlas are detailed below:

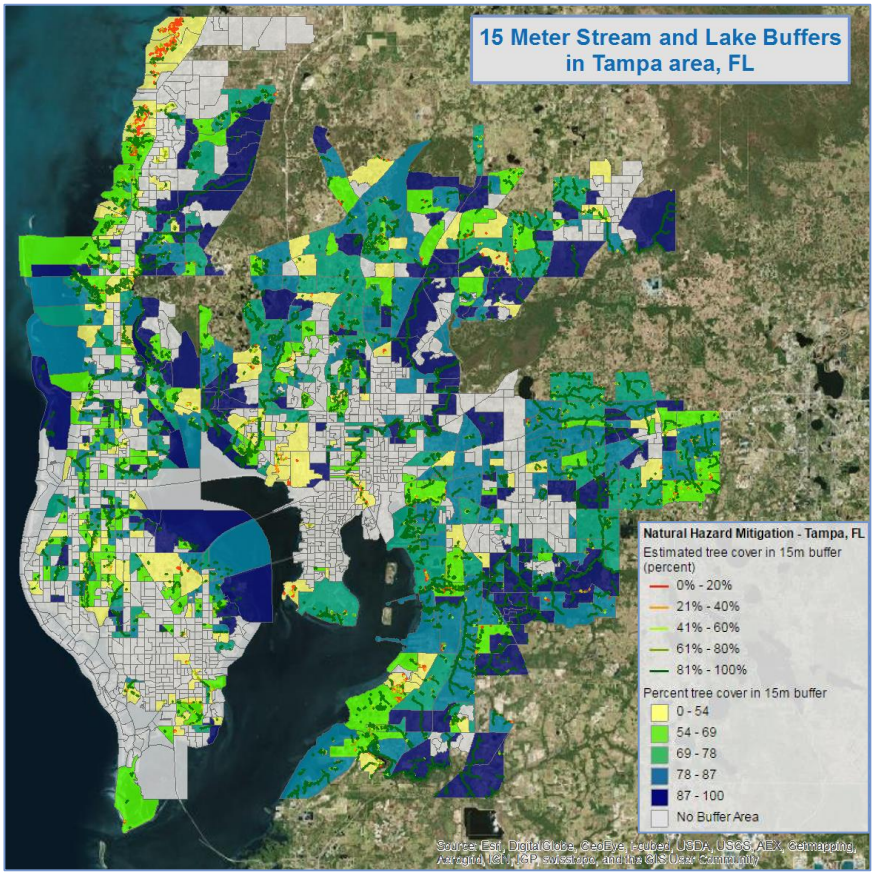
Green Space and Trees

Research indicates that physical and visual access to trees and other green space has positive physiological, cognitive, and emotional benefits. In the interactive map's table of contents, green space data layers can be found under all of the benefit categories.

- There are 872 square meters of green space per person.
- 126 out of 805 K-12 Schools have less than 25% green space within 100 meters.
- There are 11,799,050 tons of carbon stored in the local tree biomass with an additional 728,810 sequestered annually.
- 10,533,902 kilograms of ozone are removed from the air by local tree biomass every year.

Stream and Lake Buffers

Natural land cover adjacent to streams and rivers, sometimes called the riparian area or zone, helps protect water quality and supply for drinking, recreation, and aquatic habitat. The EnviroAtlas community component analyzes stream and lake buffers with widths of 15 and 50 meters.



- An estimated 1.5% of the Tampa's land area is within 15 meters of a stream or lake.
- 73 percent of Tampa's 15 meter stream and lake buffers are forested (shorelines indicated by red to green lines in the figure above).

In the interactive map's table of contents, stream and lake buffer layers can be found in the Clean and Plentiful Water, Natural Hazard Mitigation, Recreation, Culture, and Aesthetics, and Biodiversity Conservation benefit categories.

EnviroAtlas Tools and Features

- EnviroAtlas Community Component: data layers based on 1-meter land cover summarized to the block group scale.
- EnviroAtlas National Component: data layers based on 30-meter land cover summarized to the watershed scale.
- EnviroAtlas Interactive Map: go directly to the interactive map.
- EnviroAtlas Fact Sheets: Describe the project, each community, and each data layer in detail.
- Eco-Health Relationship Browser: An interactive relational tool that explores ecosystems, the services they provide, and benefits to human health and well-being.
- Contact the EnviroAtlas Team: Please contact us if you have any questions about EnviroAtlas.

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