Building a Greenway: Using EnviroAtlas in the Classroom

Guidance for accessing EnviroAtlas maps

This is a quick guide for using the EnviroAtlas Interactive Map to access the **Building a Greenway Case Study** maps.

- **Proposed trail network and points**

- **Percent population over 64 years old** *(National Layer)*

- **Percent green space** *(Community Layer for Tampa, FL)*

- **Estimated walking distance to a park entrance** *(Community Layer for Tampa, FL)*

- **Tampa, FL land cover classification** *(Community Layer for Tampa, FL)*

- **Natural land cover connectivity** (with water as background) *(National Layer)*

- **Residential population not within 500m of a park entrance** *(Community Layer for Tampa, FL)*

- **Pedestrian-oriented street intersection density** *(National Layer)*

- **Percent households below the U.S. poverty level** *(National Layer)*

- **Percent tree cover** *(Community Layer for Tampa, FL)*

- **Estimated tree cover in 50m stream buffer** *(Community Layer for Tampa, FL)*

- **Dasymetric allocation of population** *(National Layer)*

- **Business address vacancy rate** *(National Layer)*

- **Percent of workers who bike or walk to work** *(National Layer)*

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Start by going to www.epa.gov/enviroatlas

www.epa.gov/enviroatlas

This is the EnviroAtlas home page.
Use this page as a starting point for accessing all background information and resources in EnviroAtlas.

To get to the mapping application, click on the linked name **EnviroAtlas Interactive Map**.

The **Eco-Health Relationship Browser** is another tool you may want to check out.

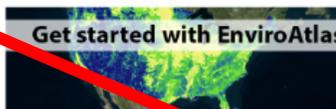It provides literature from an extensive review on the connection between the environment and human health outcomes, in an easy-to-use tool.

From this page, you can access the Interactive Map by clicking on the **Launch the Map** image.

This page also provides useful background information and resources, including a User's Guide for the Interactive Map and its tools.

EPA United States Environmental Protection Agency

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EnviroAtlas

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EnviroAtlas Interactive Map

What's New?

- **Discover Data** | All EnviroAtlas data are available in one tab for ease of discovery.
- **Universal Search** | Search all EnviroAtlas data, including *people and built spaces* and *boundaries*, from a single tab.
- **Featured Collections** | Clusters of data that highlight different environmental decision-making scenarios.
- **Save Your Session** | Users can save sets of EnviroAtlas maps and retrieve them later in their browser, or download map sets and share with others.
- **Demographic Widget** | Hundreds of demographic variables from the ACS 2011- 2015 and 2010 Census available by county, census tract, and census block group.
- **Add Data** | Easily add your own data or known web services to the map.
- **Updated HUC Navigator** | Identify upstream or downstream watersheds within the stream network.
- **Updated Tour** | All new features are covered. Select *Tour* from the Map home screen.

Click on the map to launch the application.
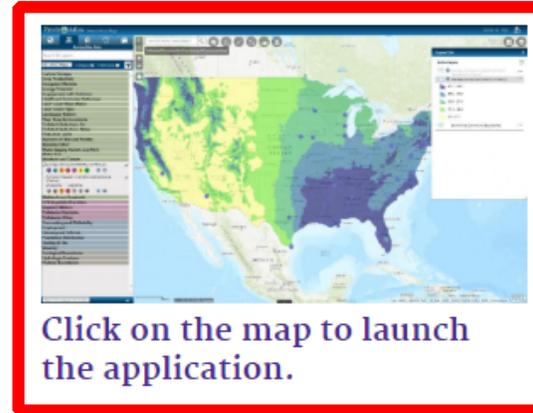
Learn about the Interactive Map and EnviroAtlas Data

- EnviroAtlas Data Organization
- Interactive Map User's Guide
- Dynamic Data Matrix
- EnviroAtlas Communities
- Example Uses of EnviroAtlas Data

The Interactive Map "splash screen" will appear. There are a few options here, but for using the Greenway Case Study, click **"Learn: Get Started with examples."**

Featured Collections will appear along the left panel. Select the one that says, **"Building a Greenway: A Case Study."**

EnviroAtlas provides the same maps for multiple communities. All of the maps in the **"Building a Greenway: Case Study"** are from the Tampa, FL community.
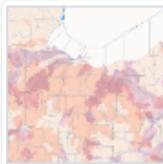
A description of the **"Building a Greenway: Case Study"** will pop-up.

Feel free to read the **Description** for more information and see the available map layers.

When ready, click **"Add to Map."**

The Map will populate with certain layers selected.

On the right side, in the **Layer List,** you can check or uncheck layers to make them visible or not visible on the map.

To make more room for the maps, **minimize the Featured Collections.**
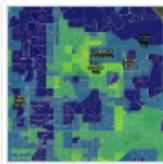
Featured Collections

Public   My Content

Agricultural Erosion and Sediment-I...
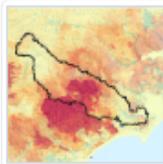Aids waterway remediation efforts by highlighting the interplay between eros ...
Add to map

Building a Greenway: A Case Study
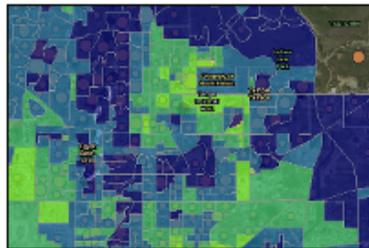This interdisciplinary learning module promotes student discovery using
Add to map

CEHI Supplemental WebMap
This map illustrates block group level Community EcoHealth Index (CEHI) sco ...
Add to map
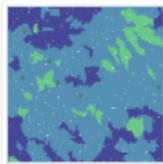
Guidance for Carbon Storage
Provides guidance for tree-based carbon storage efforts by identifying extant ...
Add to map

Nitrogen Inputs to Watersheds
This collection of layers will help users explore potential wetlands restoration t ...
Add to map

Urban Heat Islands and Vulnerable C...
Identifies Urban Heat Island effects in Portland, OR and proposes sites ideal fo ...
Add to map

Find address or place

Selected Community:
Tampa, FL

Layer List

Layers

☑ Trailheads

☑ Proposed Trail

☑ Percent population over 64 years old (CBG)

☑ Percent green space

☐ Percent tree cover

☐ Percent of residential population not within 500m of a park entrance

☐ Pedestrian-oriented street intersection density

☐ Percent households below poverty level (CBG)

☐ Business address vacancy rate for 2014

☐ Percent of workers who bike or walk to work

☑ Reference_Boundaries

☐ NHDPlusV21_EA

☐ Natural Land Cover Connectivity (MSPA 30m edge width)

2mi   -82.537 28.1   Degrees

To view the Legend for a specific map layer, such as "Percent population over 64 years old," **click the name of the layer in the Layer List.**
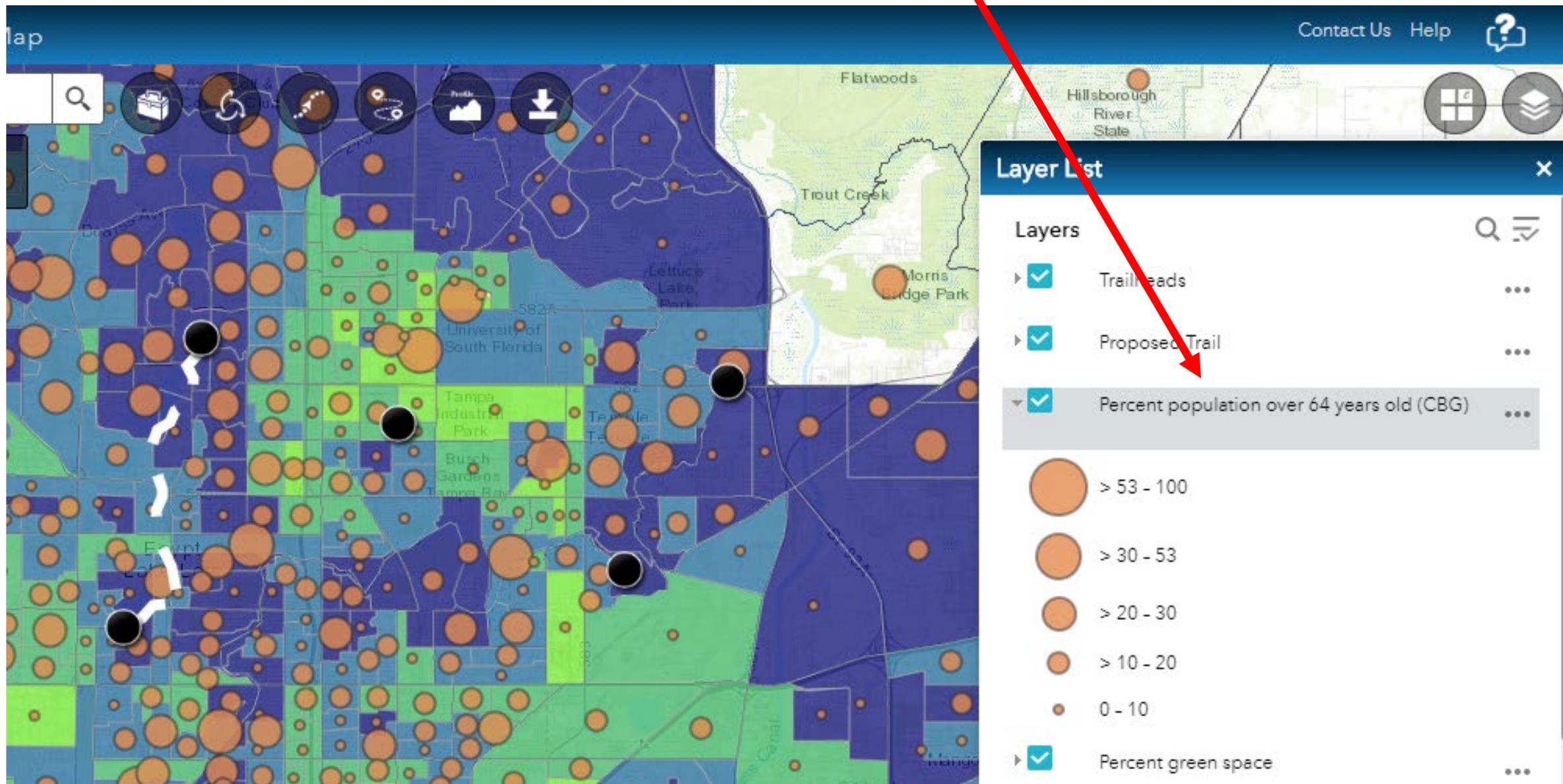
If you would like to change the basemap to show different information such as underlying imagery or roads, click the icon.

You can choose any of the basemaps shown in the **Basemap Gallery**.

EnviroAtlas Interactive Map

EnviroAtlas Data

Search All Layers

427 of 427 Maps   Expand ■   Hide Icons ■

Carbon Storage
Crop Productivity
Ecosystem Markets
Energy Potential
Engagement with Outdoors
Health and Economic Outcomes
Land Cover: Near-Water
Land Cover: Type
Landscape Pattern
Near-Road Environments
Pollutant Reduction: Air
Pollutant Reduction: Water
Protected Lands
Species: At-Risk and Priority
Species: Other
Water Supply, Runoff, and Flow
Water Use
Weather and Climate
Wetlands and Lowlands
EPA Regulated Facilities
Impaired Waters
Pollutants: Nutrients
Pollutants: Other
Commuting and Walkability
Employment
Housing and Schools
Population Distribution
Quality of Life
Vacancy
Ecological Boundaries
Hydrologic Features
Political Boundaries

Find address or place

Selected Community:
Combined Communities
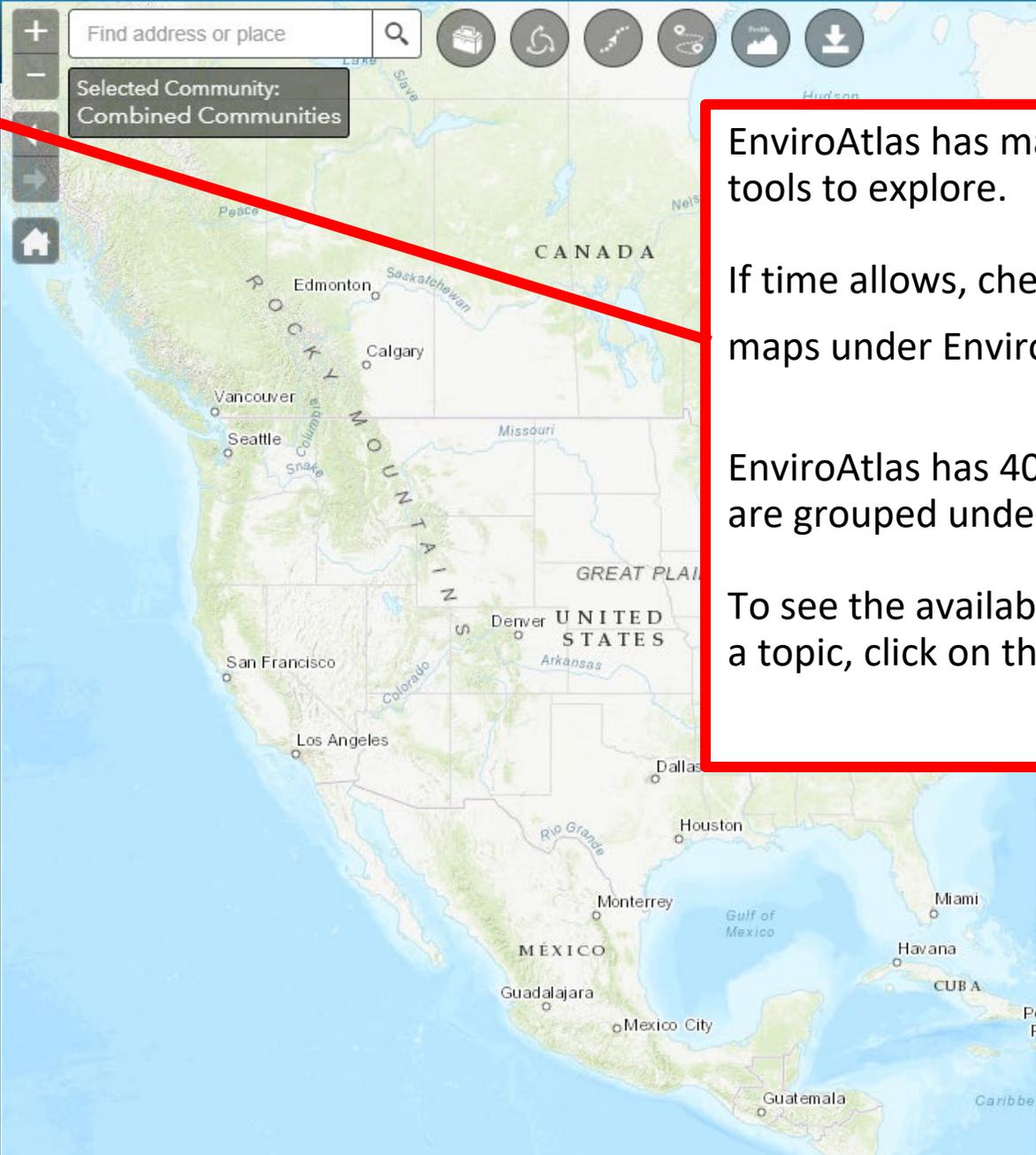
EnviroAtlas has many more maps and tools to explore.

If time allows, check out additional maps under EnviroAtlas Data.

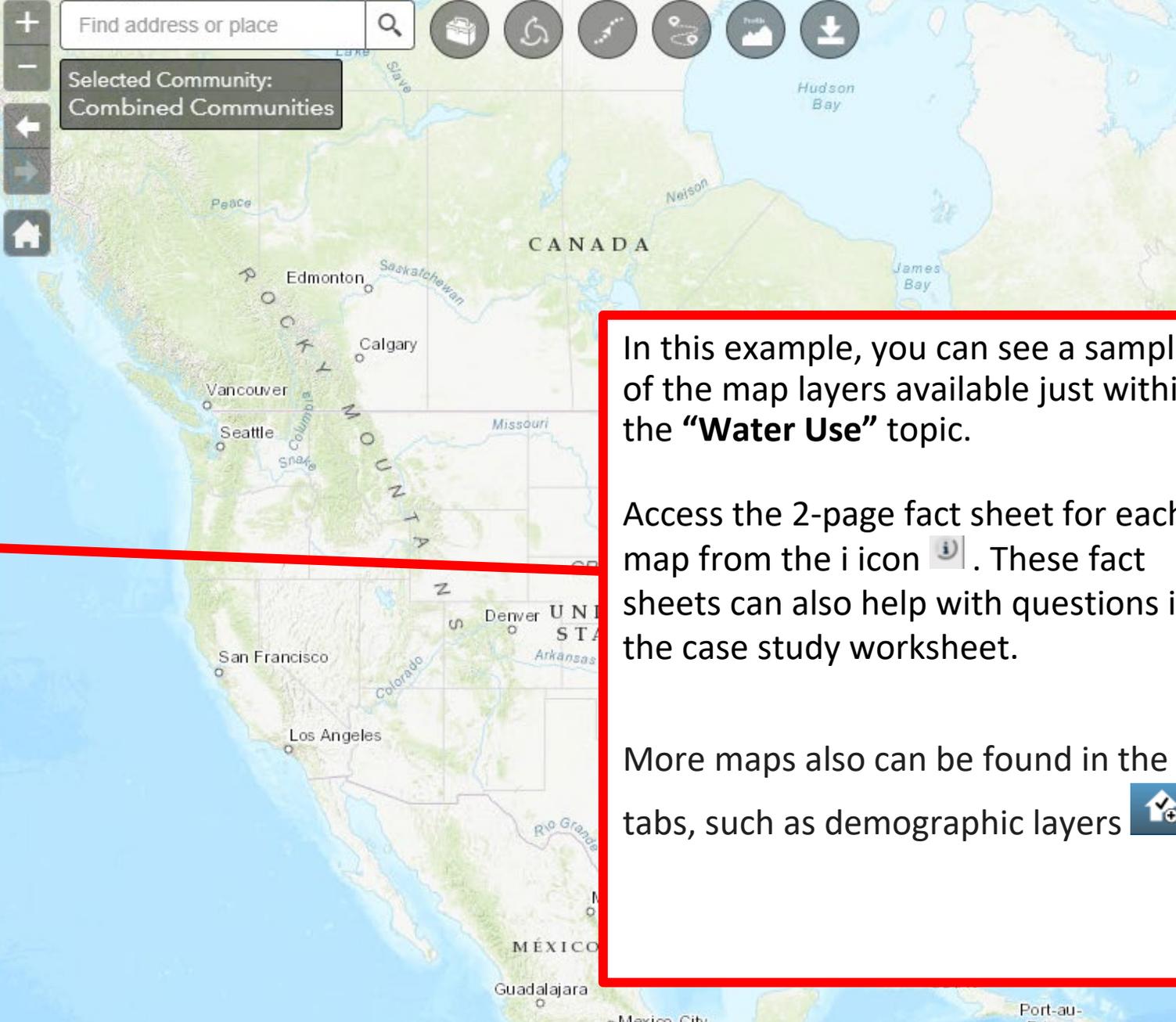EnviroAtlas has 400+ map layers that are grouped under topics.

To see the available map layers within a topic, click on the topic name.

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EnviroAtlas Data

Search All Layers

427 of 427 Maps   Expand ■   Hide Icons ■

Health and Economic Outcomes
Land Cover: Near-Water
Land Cover: Type
Landscape Pattern
Near-Road Environments
Pollutant Reduction: Air
Pollutant Reduction: Water
Protected Lands
Species: At-Risk and Priority
Species: Other
Water Supply, Runoff, and Flow
Water Use
☐ Agricultural water use (million gallons/day)   ⓘ
    N 12
☐ Daily domestic water use (x1000 gal/day)   ⓘ
    C BG
☐ Domestic water use (million gallons/day)   ⓘ
    N 12
☐ Industrial water use (million gallons/day)   ⓘ
    N 12
_ Thermoelectric water use   ⓘ
    ☐ Withdrawal   ☐ Consumption
    N 12
Weather and Climate
Wetlands and Lowlands
EPA Regulated Facilities

Find address or place

Selected Community:
Combined Communities

Lake
Slave
Hudson Bay
Peace
Nelson
CANADA
Edmonton
Saskatchewan
James Bay
Calgary
Vancouver
Columbia
Missouri
Seattle
Snake
Denver UNI
STA
San Francisco
Colorado
Arkansas
Los Angeles
Rio Grande
MÉXICO
Guadalajara
Mexico City
Port-au-

In this example, you can see a sample of the map layers available just within the **"Water Use"** topic.

Access the 2-page fact sheet for each map from the i icon ⓘ . These fact sheets can also help with questions in the case study worksheet.

More maps also can be found in the other tabs, such as demographic layers.

Check out EnviroAtlas Analysis Tools to find out more about elevation, water flow, and ecosystem services in a geographical area of interest.

This example shows the Elevation Profile tool, accessible by clicking the 5th icon at the top of the map.

Other resources and additional guidance can be found on the EnviroAtlas website: www.epa.gov/enviroatlas

Start with our tutorial videos for more in-depth guidance on using the Interactive Map
https://www.epa.gov/enviroatlas/enviroatlas-training-and-education

We want to hear from you!

Contact us at enviroatlas@epa.gov to let us know how you are using the case study or if you need further assistance.

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