USDA CARBONSCAPES Quick Start User Guide

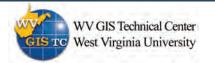
A national look at carbon landscapes and a central location for USDA Carbon inventory, modeling and mapping of terrestrial biosphere carbon



www.CarbonScapes.org



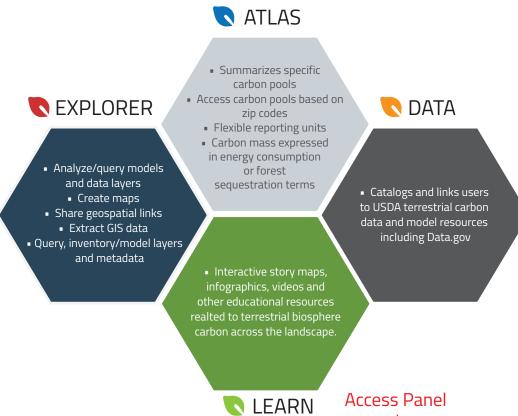






About CarbonScapes

The goal of USDA CarbonScapes is to provide a useful and easy to navigate web map application to educate and answer questions for stakeholders about USDA inventory, modeling, and mapping of terrestrial biosphere carbon across the landscape. CarbonScapes is comprised of three application (ATLAS, EXPLORER, DATA, and LEARN). CarbonScapes is a product of a partnership between USDA and West Virginia University





Getting Started

To get started, launch desired application by using the top access pannel or use the icons to navigate to CarbonScapes ATLAS, CarbonScapes EXPLORER, CarbonScapes DATA, and CarbonScapes LEARN launch pages

> Navigate to Launch Page





Figure 1: CarbonScapes launch page



Summarizes specific carbon pools in the landscape for carbon stock/mass

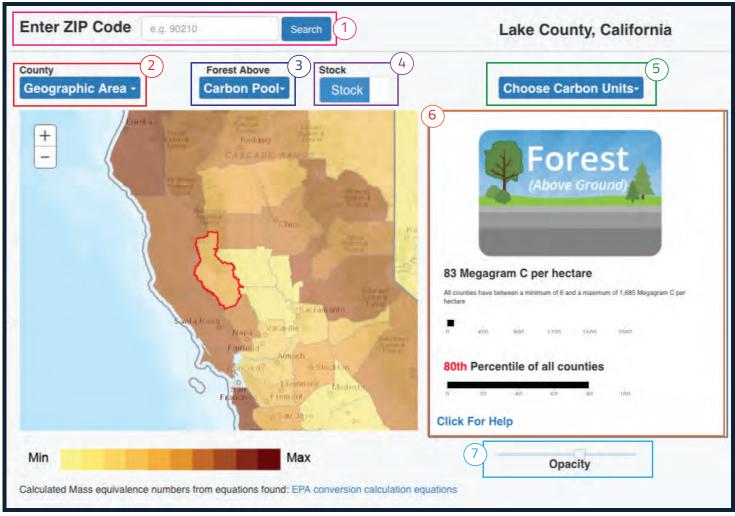


Figure 2: CarbonScapes ATLAS Stock

Enter Zip Code (1) or Select Geographic Area (2) to find area of interest

Custom map by choosing Carbon Pool (3), switching display from Carbon stock to mass by clicking Stock/Mass Slider (4), and by selecting Carbon Units (5)

View results in the Result Panel (6), change map opacity by moving Opacity Slider (7).

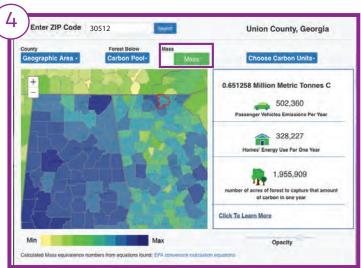


Figure 3: CarbonScapes ATLAS Mass

CarbonScapes *EXPLORER*

Provides advanced users more in-depth tools to visualize and analyze carbon models and data inventory layers

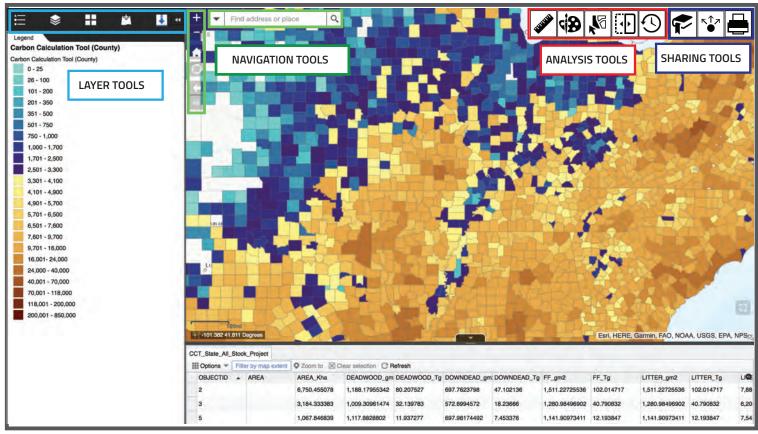
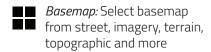


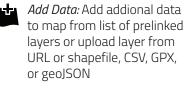
Figure 4: CarbonScapes EXPLORER Interface

Layer Tools









Download Date: Download selected data in various feature and raster formats

Navigation Tools



Zoom Out



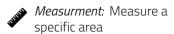
Current Location

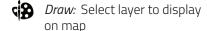
Go back to previous view

Move forward to previous view

Search: Find address or place

Analysis Tools





Select Feature by Geometry:
Select by rectangle,
polygon, circle, or line

Swipe: Compare two different layers

Time Slider: Visualize temporal changes in a data layer

Sharing Tools









Catalogs and links users to USDA terrestrial carbon data and model resources

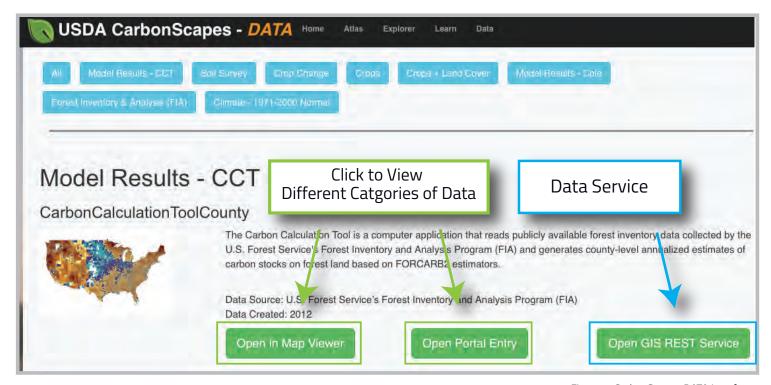


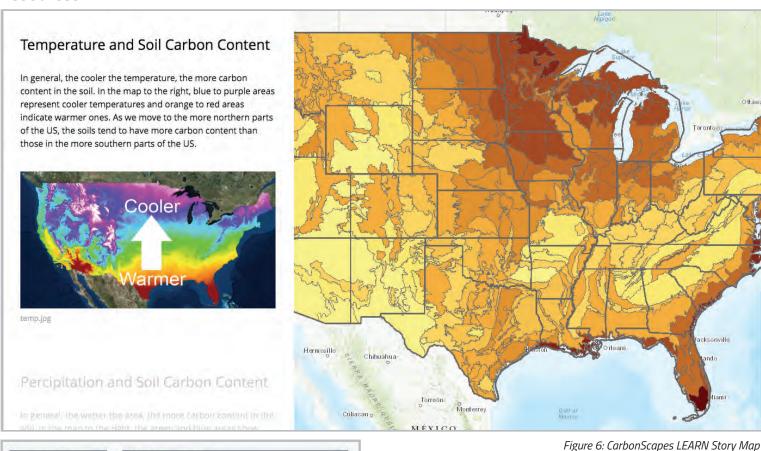
Figure 5: CarbonScapes DATA Interface

Data includes carbon data inventory layers and models including:

- Carbon Calculation by County and State
- Gridded Soil Survey Geographic Database (GSSURGO)
- Forest Inventory Analysis (FIA)
- Cropland Change
- Crop Data Layer
- PRISM Climate Data
- MODEL-COMET FARM

CarbonScapes *LEARN*

Discover the connection and the importance of soil carbon, its role in the carbon cylce, how soil carbon effets climate conditions and the impact of human activity on soil carbon storage through interactive story maps, infographics, videos, and other resources.



Soil Degradation

Our soil resources are under threat, and dimate change is only one of many factors causing soil and land degradation around the world. Understanding how and why soils can become degraded and, more importantly, the societal consequences of that degradation can lead us to the sustainable soil management practices that can halt and reverse the damage to our global soil resources.

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Figure 7: CarbonScapes LEARN education

Soils and Carbon

THIN LAYER OF SOIL COVERING TISE

EARTH'S SURFACE REPRESENTS THE

DIFFERENCE BETWEEN SURVIVAL

AND EXTINCTION FOR MOST

TERRESTRIAL LIFE.

JOHN W. ODRAY AND THORN'S RINGER

Did you know?

Soils contain more carbon than the atmosphere and vegetation combined. Consequently, soile—through proper management—have an essential role in mitigating climate change.

Soils shelp to combat and adopt to climate change by playing a key role in the carbon cycle

Learn more subout Fine curbon cycle

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Figure 8: CarbonScapes LEARN interface