USDA CARBONSCAPES

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

www.carbonscapes.org



CarbonScapes ATLAS

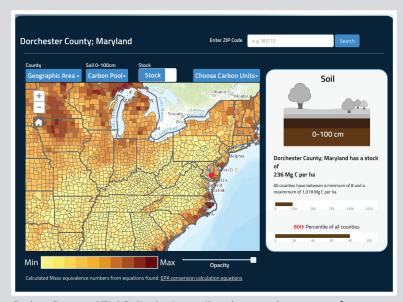
Summarizes specific carbon pools in the landscape for carbon stock/mass for

- County
- Watershed
- Major Land Resource Area

Access carbon pools based on zip codes

Flexible reporting units (C or CO2-e in SI or English units)

Carbon mass expressed in energy consumption or forest sequestration terms



CarbonScapes ATLAS displaying soil carbon pool summary for a county

www.CarbonScapes.com/ATLAS



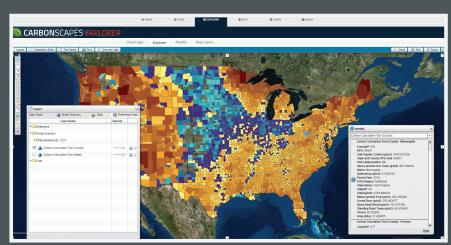
CarbonScapes **EXPLORER**

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

Explorer has ability to

- Analyze/query models and data layers
- Create maps
- Share geospatial links
- Extract GIS data

Administrative login provides access to additional query, inventory/model layers and metadata



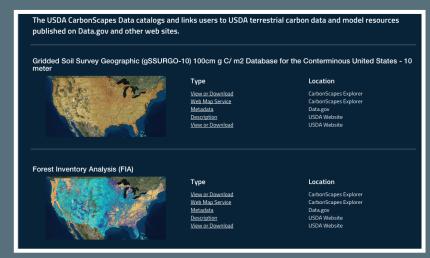
CarbonScapes EXPLORER displaying detailed result of various carbon pools for a county

www.CarbonScapes.org/EXPLORER



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

Links to Data.gov and other related websites



CarbonScapes DATA displaying links to inventory and model layers

www.CarbonScapes.org/DATA

Future Work

CarbonScapes ATLAS

Add stock and mass carbon for plants above/below ground and total carbon for counties, watershed and major land resource areas

Add contextual help

Refine for use on tablet device

CarbonScapes EXPLORER

Add updated inventory and model data resources

Review/update tools and functions based on user feedback

Perform need analysis and design document for converting Explorer section to JavaScript programming interface

Convert application to JavaScript API; optimize application for touch controls so it operates on tablets

CarbonScapes DATA

Consume and publish CarbonScapes data on Data.gov

Publish metadata for all CarbonScapes ATLAS layers

Develop content management system to allow users to publish carbon model and metadata

CarbonScapes *LEARN*

Incorporate links to existing agency educational materials on models and inventory data

Evaluate CarbonScapes application using feedback from surveys and focus groups

Improve documentation and outreach efforts for CarbonScapes application

www.carbonscapes.org



