An Ecological Approach to Forest Stewardship

Session 3: Inventory and Planning





Julie Hart Senior Manager of Stewardship and Education

Dutchess Land Conservancy





Mapping and Identification Resources

Dutchess County Parcel Access DEC Hudson Valley Natural Resource Mapper Tree ID Phone Apps





https://gis.dutchessny.gov/parcelaccess/

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Parcel Mapping	The public information contained herein is furnished as a public service by Dutchess County Real Pr Tax Service Agency. The Real Property Tax Service Agency makes no warranties, expressed or impliconcerning the accuracy, completeness, reliability, or suitability for the use of this information. Further	lied. rmore,
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Tax Estimator	Assessment information is updated twice a year; to reflect Tentative Assessment Rolls filed of 1st of each year and to reflect Final Assessment Rolls filed on July 1st of each year.	m May
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Residential Ratios		
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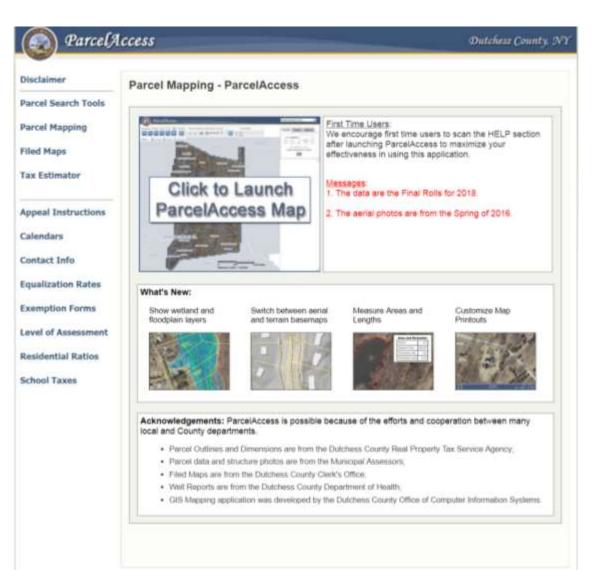
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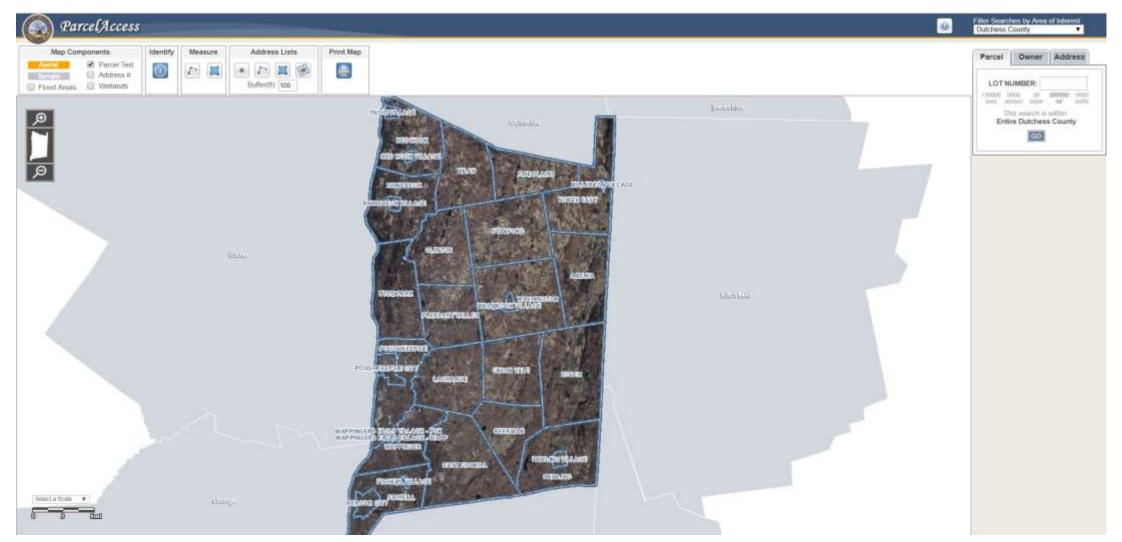






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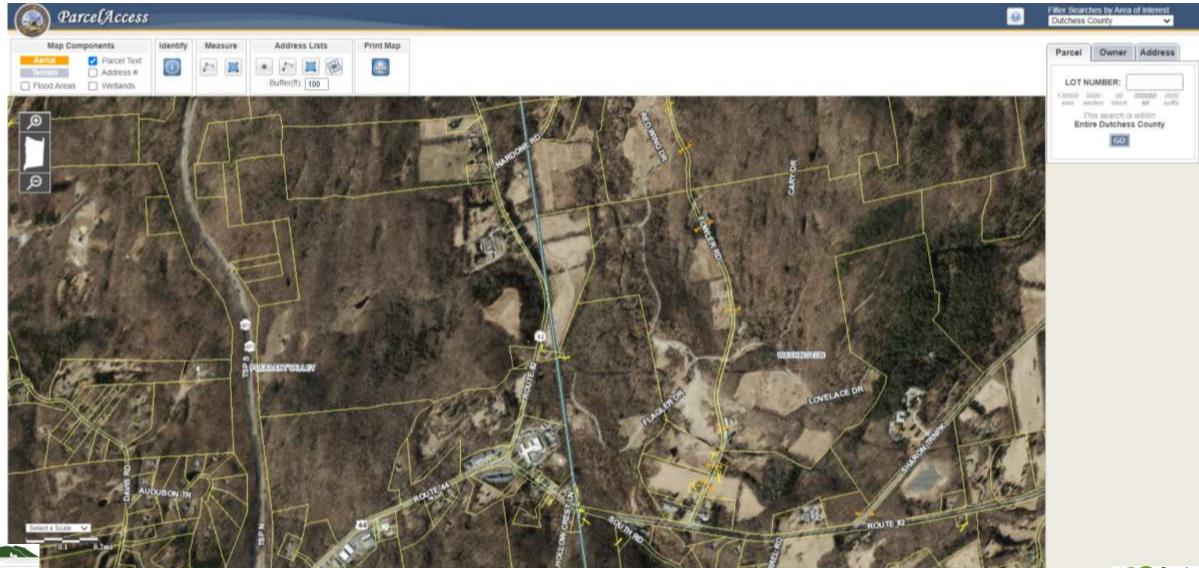
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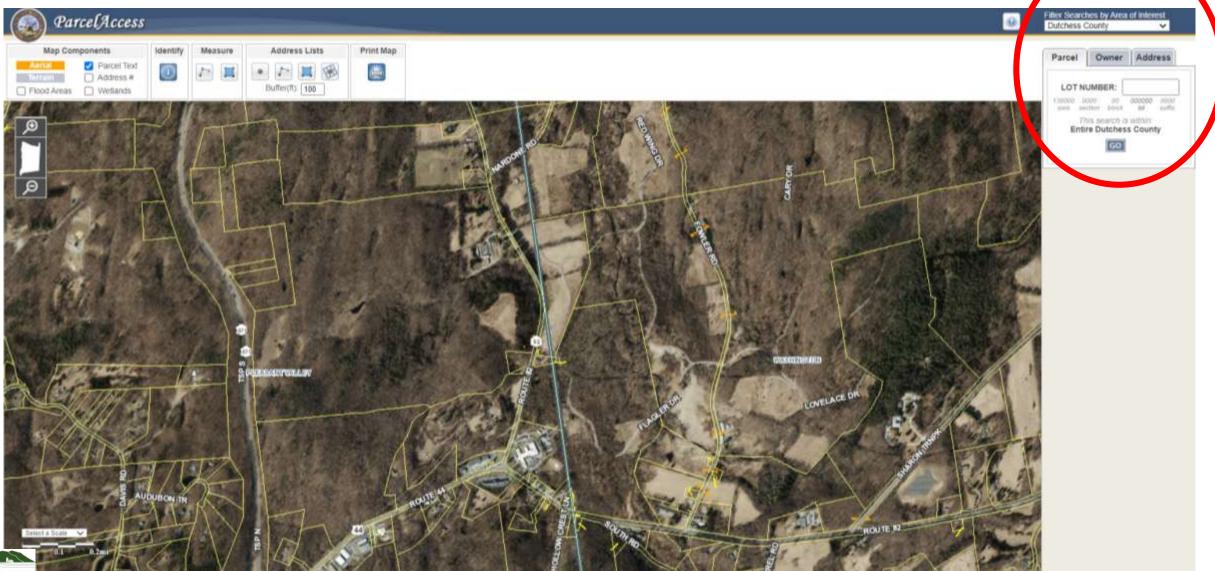


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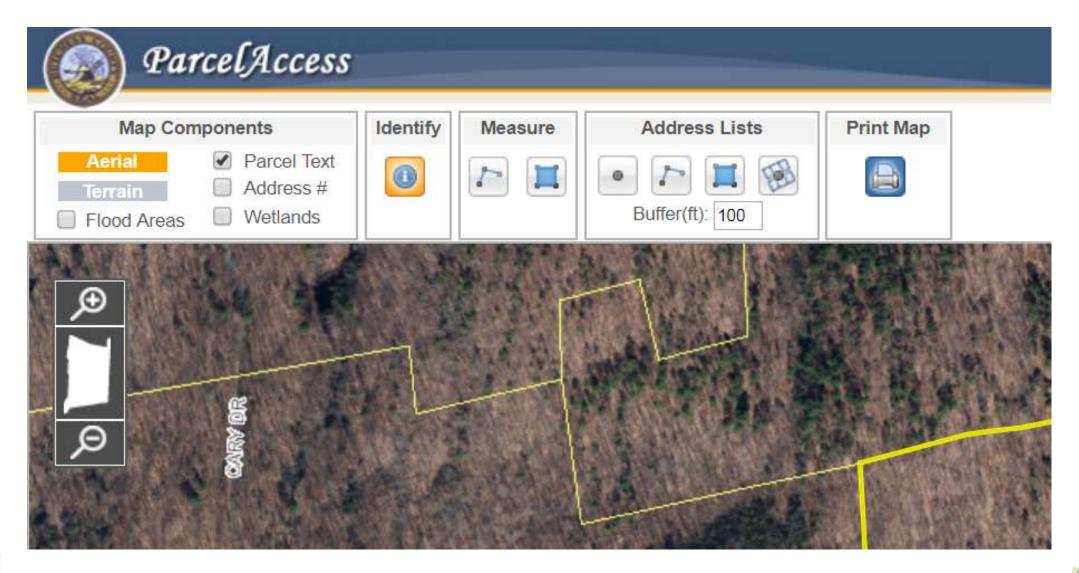


Parcels on Aerial Basemap





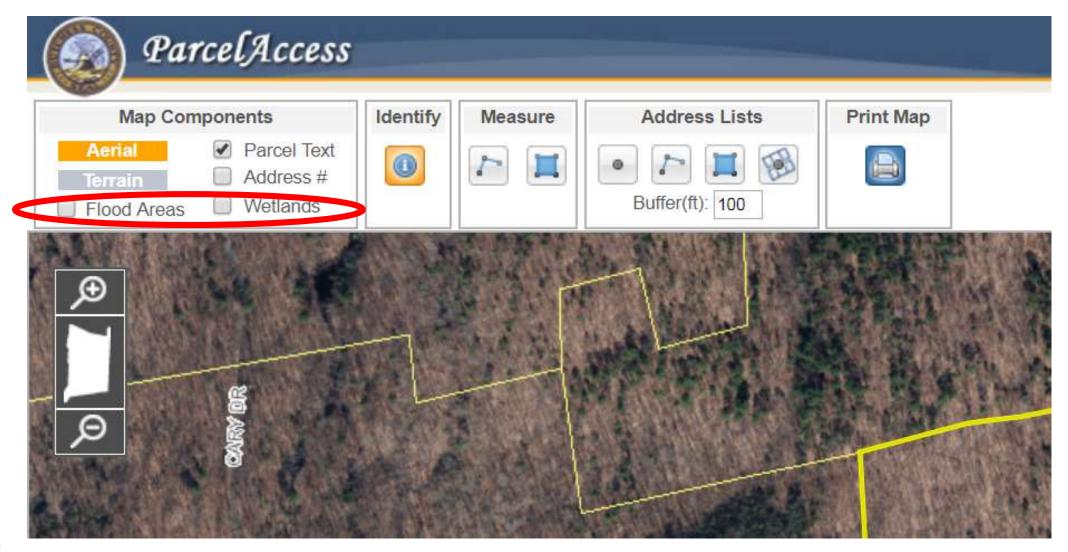
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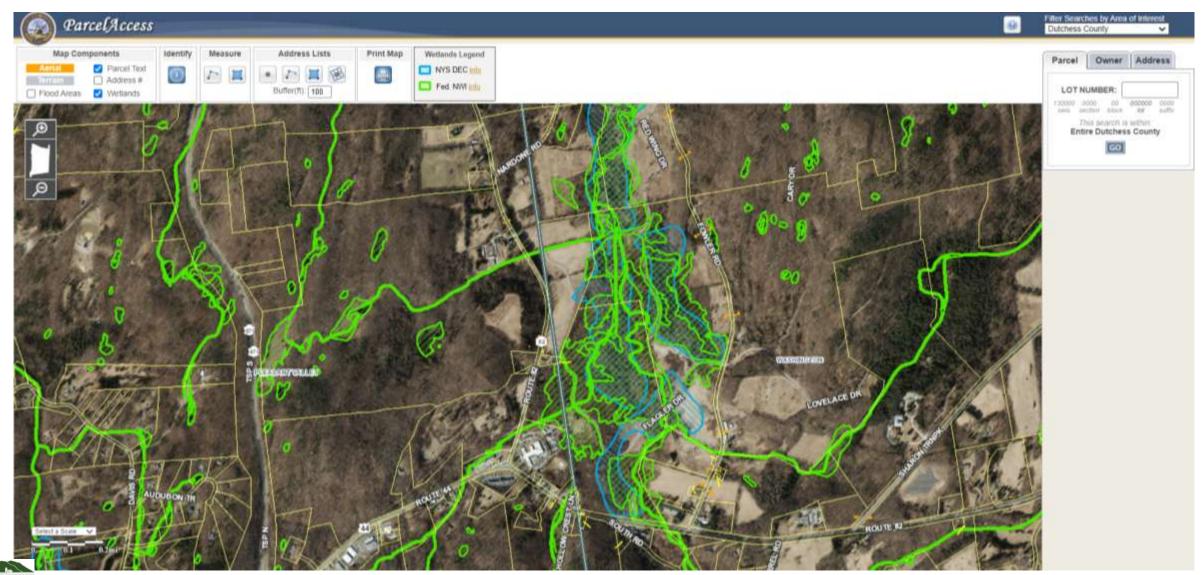
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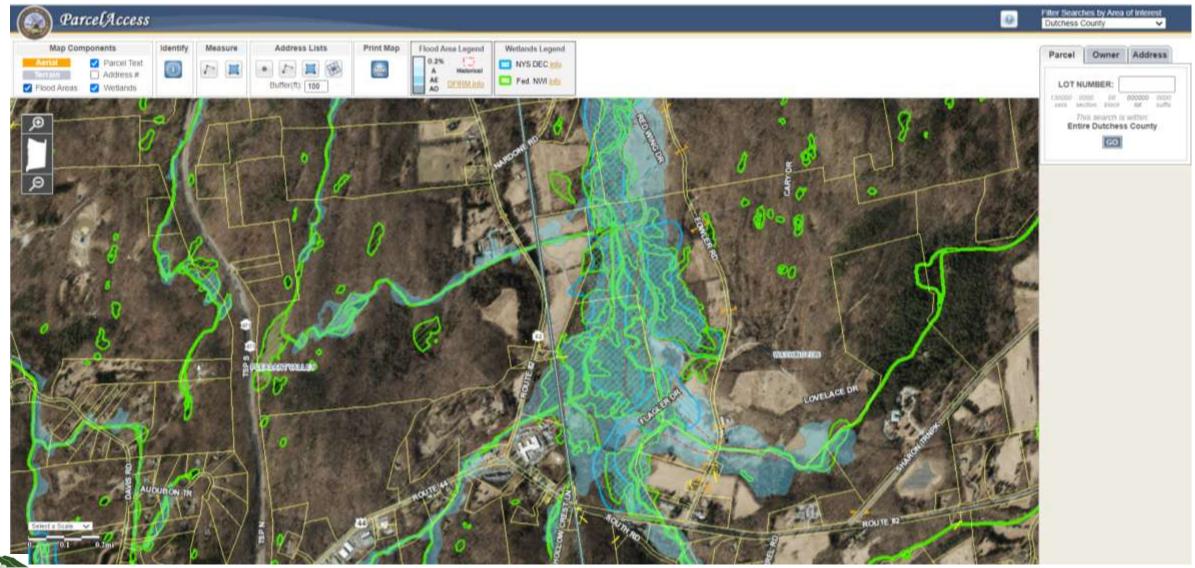
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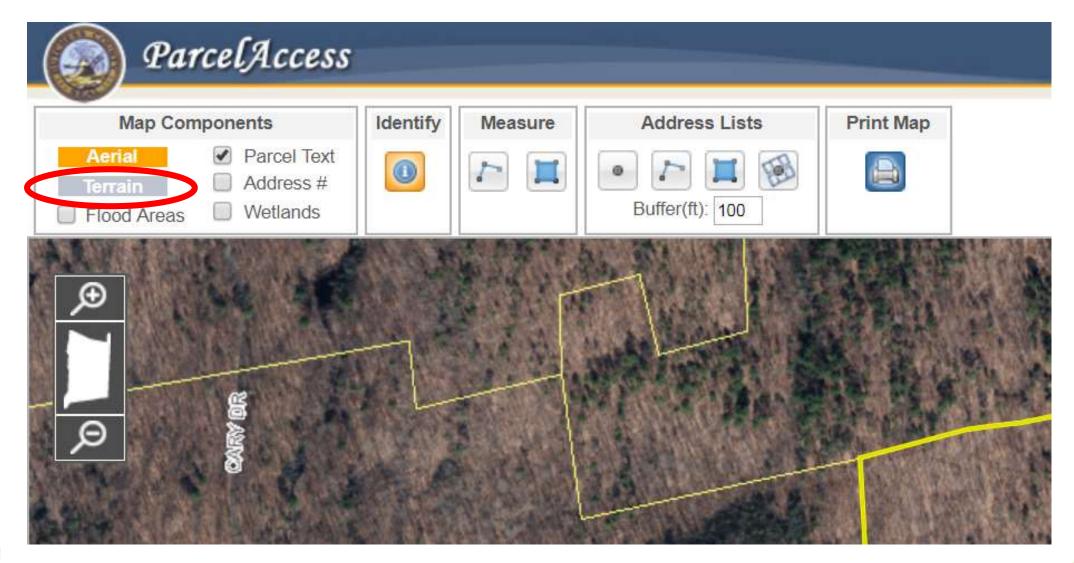
Wetlands and Floodplains







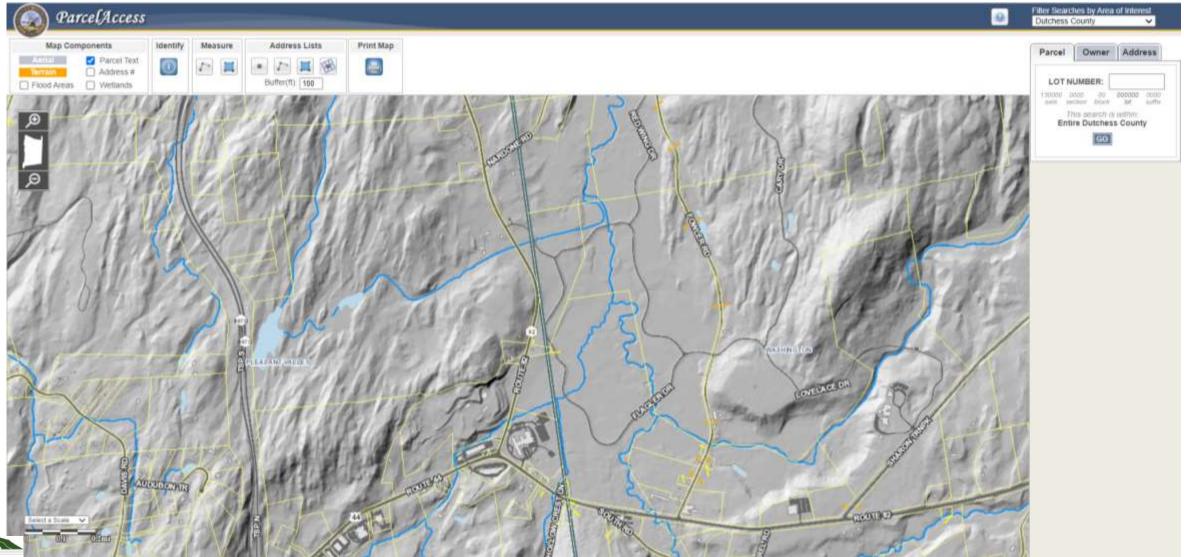
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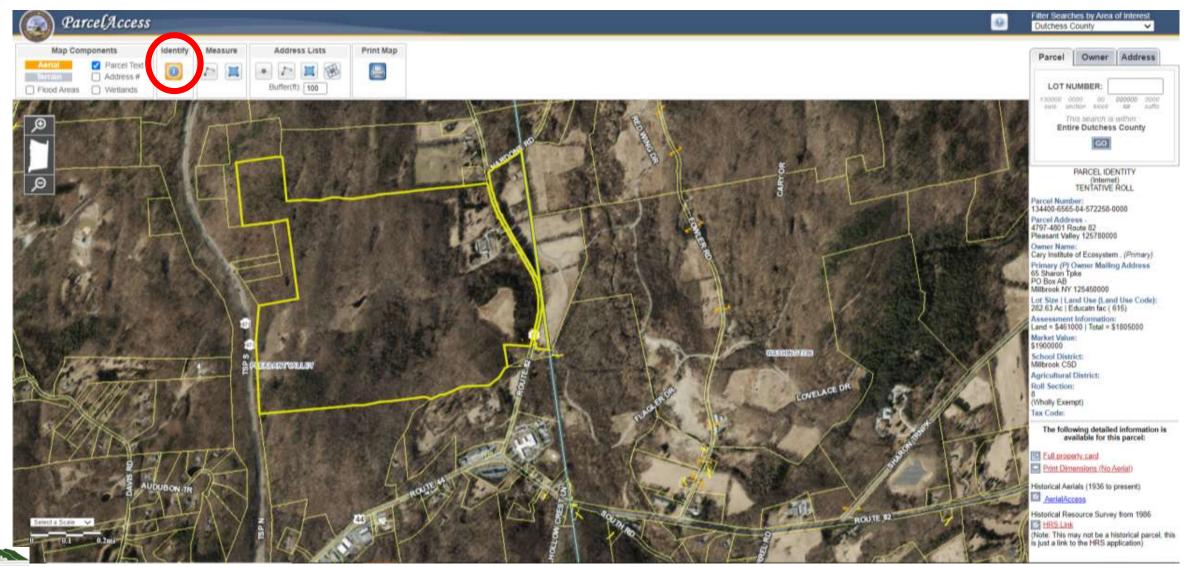


Dutchess County Parcel Access Terrain Basemap



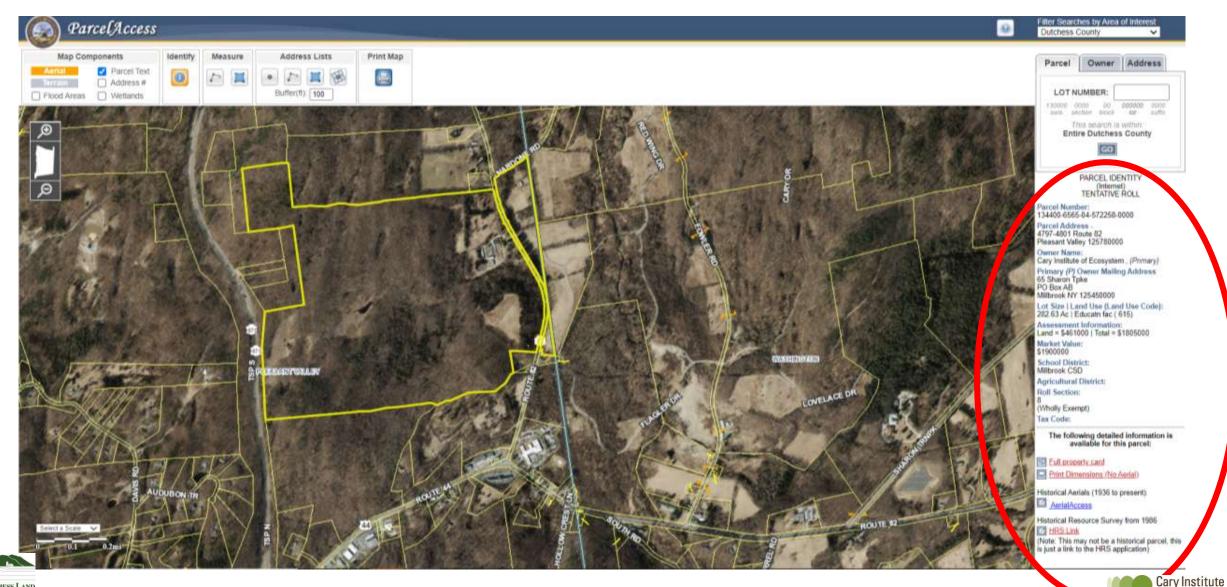


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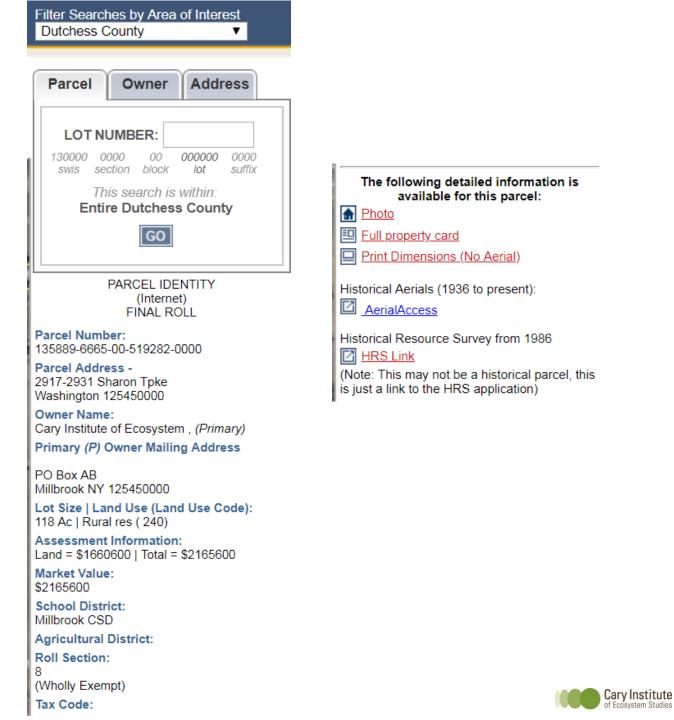


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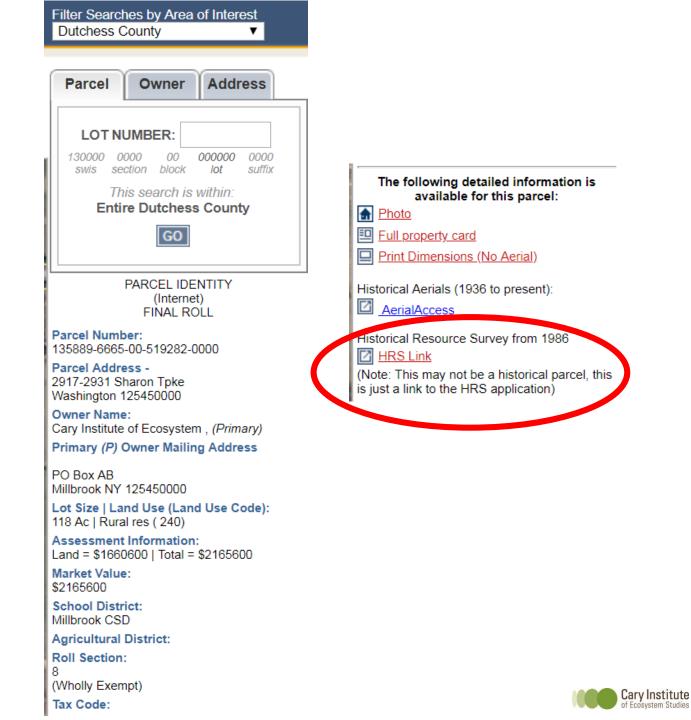
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Parcel Information



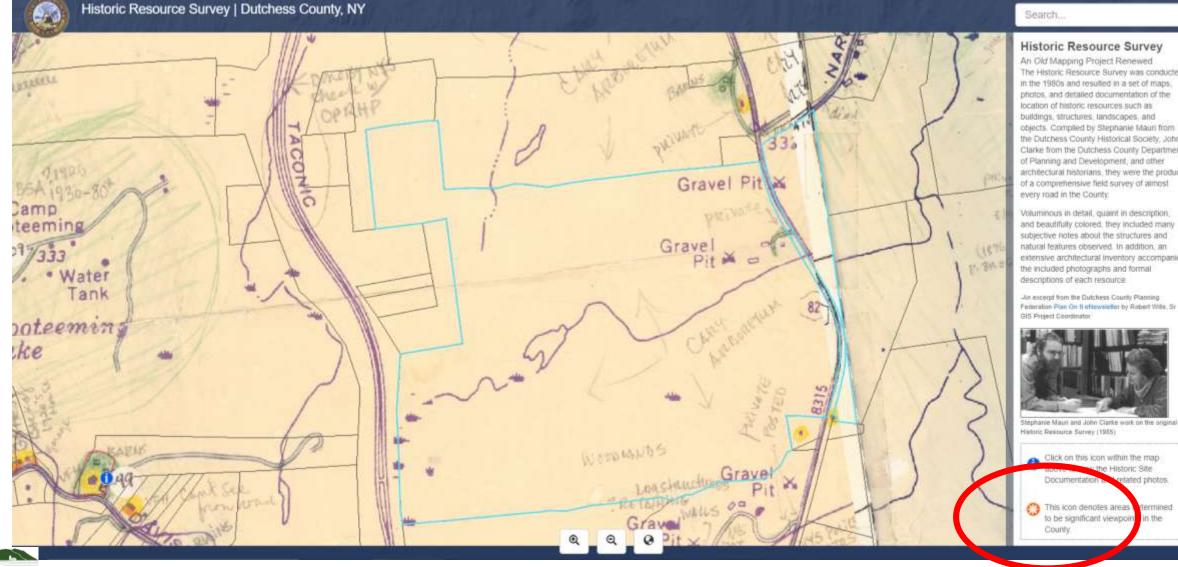


Parcel Information





Dutchess County Parcel Access: Historic Resource Survey



Historic Resource Survey

An Old Mapping Project Renewed The Historic Resource Survey was conducted in the 1980s and resulted in a set of maps. photos, and detailed documentation of the location of historic resources such as buildings, structures, landscapes, and objects. Complied by Stephanie Mauri from the Dutchess County Historical Society, John Clarke from the Dutchess County Department of Planning and Development, and other architectural historians, they were the product of a comprehensive field survey of almost every road in the County.

Voluminous in detail, quaint in description, and beautifully colored, they included many subjective notes about the structures and natural features observed. In addition, an extensive architectural Inventory accompanies. the included photographs and formal descriptions of each resource.

An excerpt from the Dutchess County Planning Federation Plan On II effewaietter by Robert Wills, Sr.

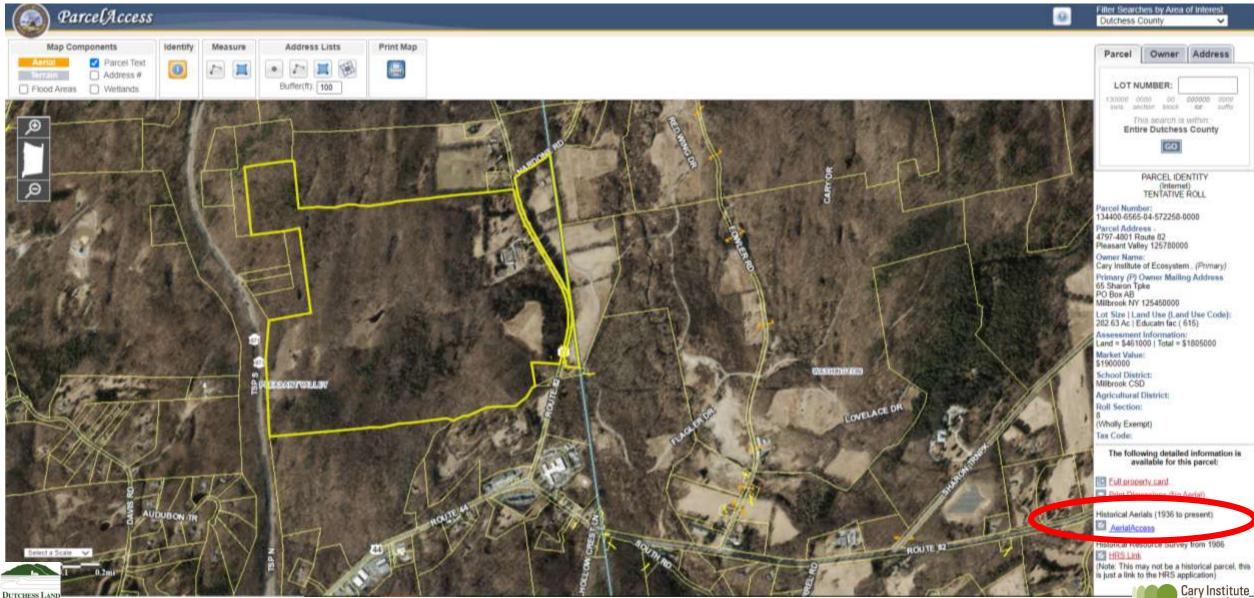


Historic Site

Dutchess County Parcel Access: Historic Resource Survey

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Historical Aerial Photos – Aerial Access



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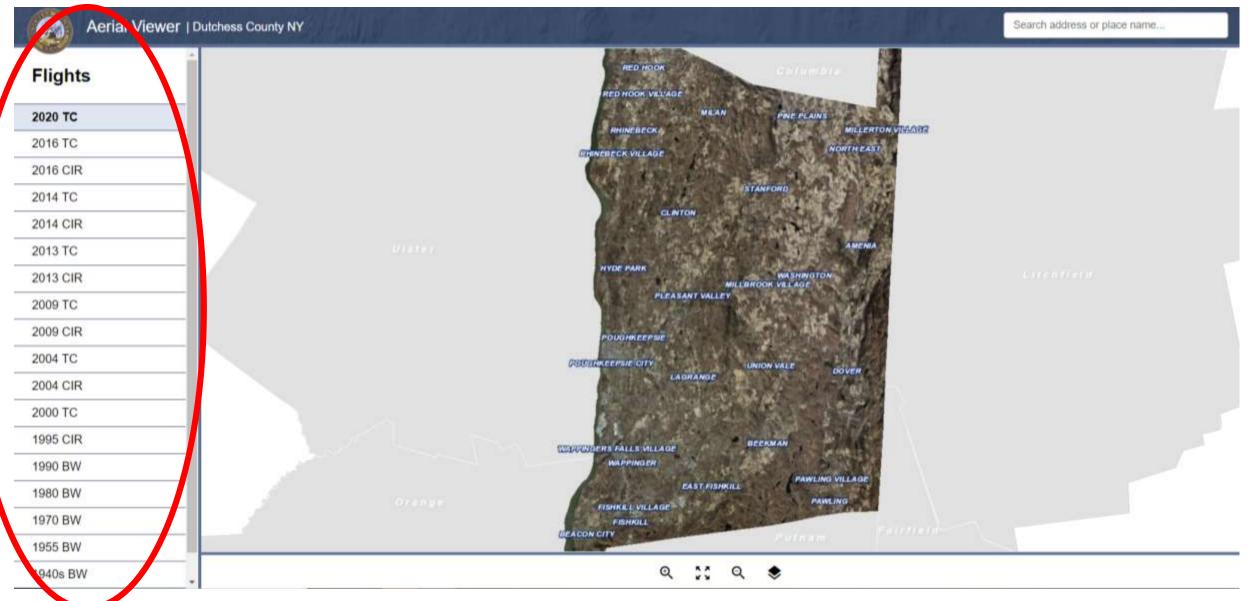




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https://www.dec.ny.gov/lands/112137.html



Home » Lands and Waters » Lakes and Rivers » Hudson River » Hudson Valley Natural Resource Mapper

Hudson Valley Natural Resource Mapper

A Tool for Viewing Natural Features in the Hudson River Estuary Watershed



Click to enter the Hudson Valley Natural Resource Mapper

The Hudson Valley Natural Resource Mapper is an online, interactive tool designed to help identify and understand important habitat and water resources. the connections between them, and their broader regional context. The mapper also highlights Hudson River recreation sites and other areas where **River Estuary** residents and visitors can enjoy the region's natural beauty . By bringing together information about natural features such as streams, wetlands, and large forests, as well as recreation amenities and existing protected lands, communities can begin to identify conservation priorities and strategies that can be incorporated into local land-use planning. This process will help ensure that future generations continue to enjoy the numerous benefits provided by the Hudson Valley's natural systems.

NEW Forest Condition Index and Core Forest layers are now available under Biodiversity Layers. The old Large Forest layer has been removed.

Updates to the HUC8, HUC10, and HUC12 Watershed land cover statistics are available under Stream and Watershed Layers.

Updates to the Assessed Road-Stream Crossings are now available under Stream and Watershed Layers.

Updates to the Known Important Areas for Rare Animals and Rare Plants are now available under Biodiversity Layers.

Critical Environmental Areas are now available under Reference Layers.





Land Use Program for the Hudson River Estuary

Important Links Conservation and

Hudson River Estuary Access to the Hudson

Contact for this Page

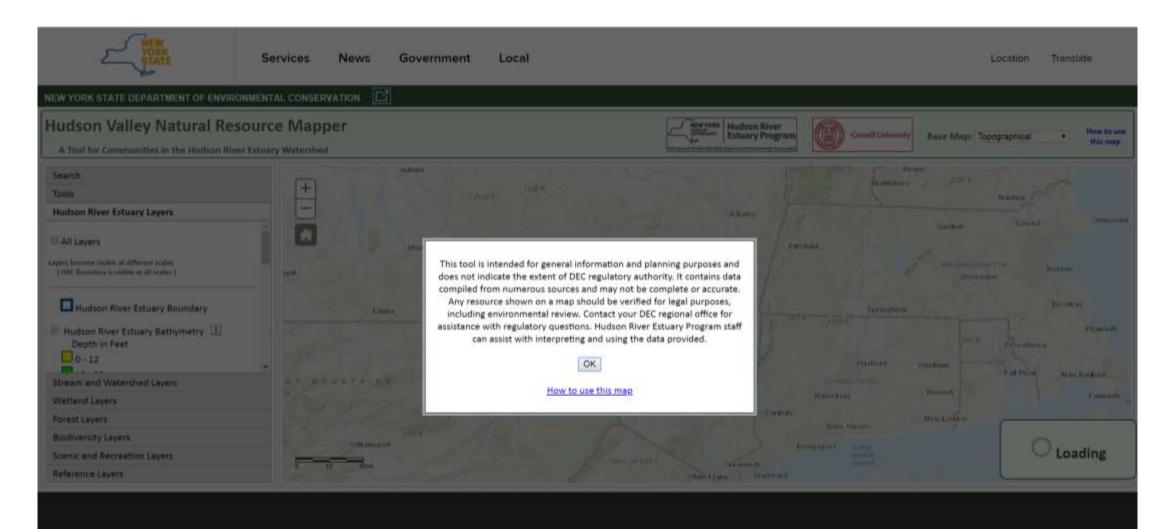
The Hudson River Estuary Program NYSDEC Region 3 21 S Putt Corners Rd New Paltz, NY 12561 845-256-3016 Send us an email

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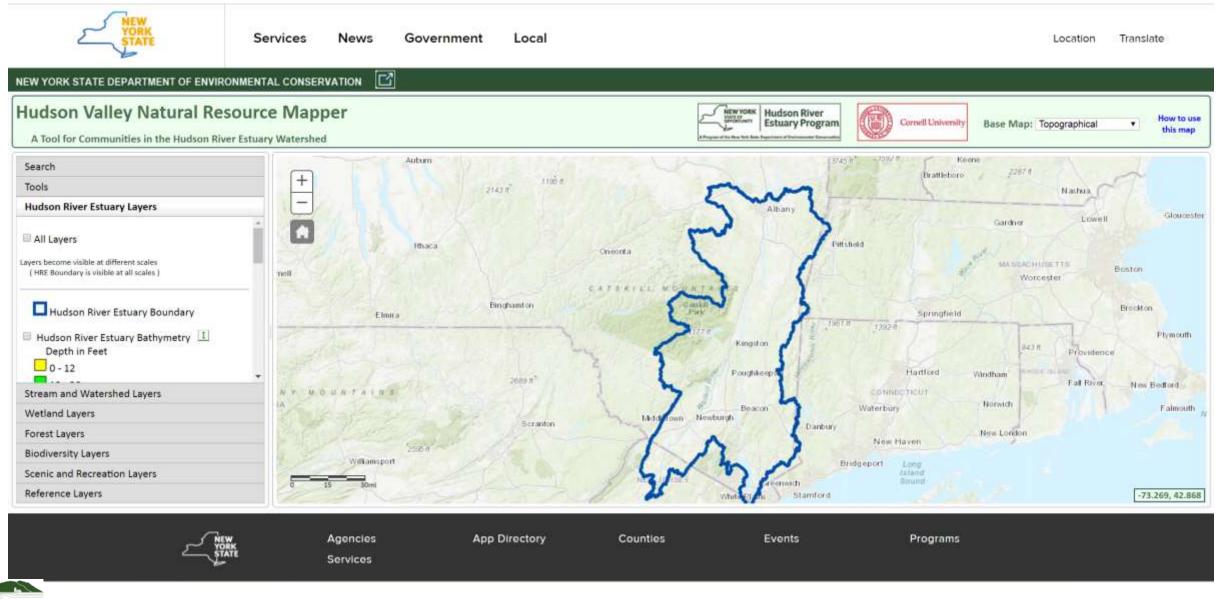


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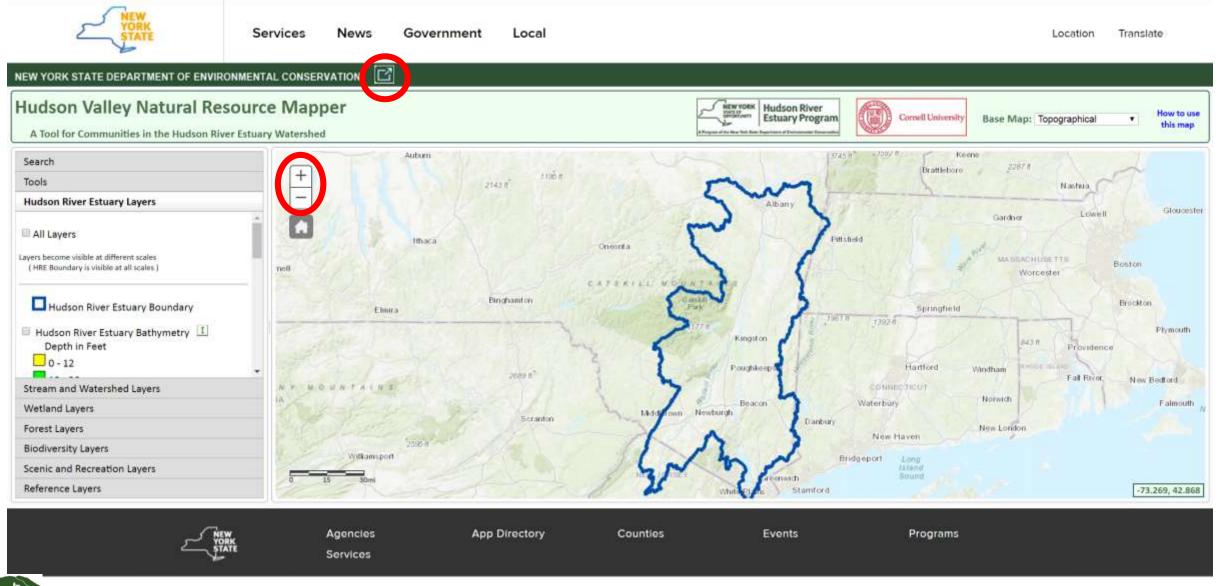




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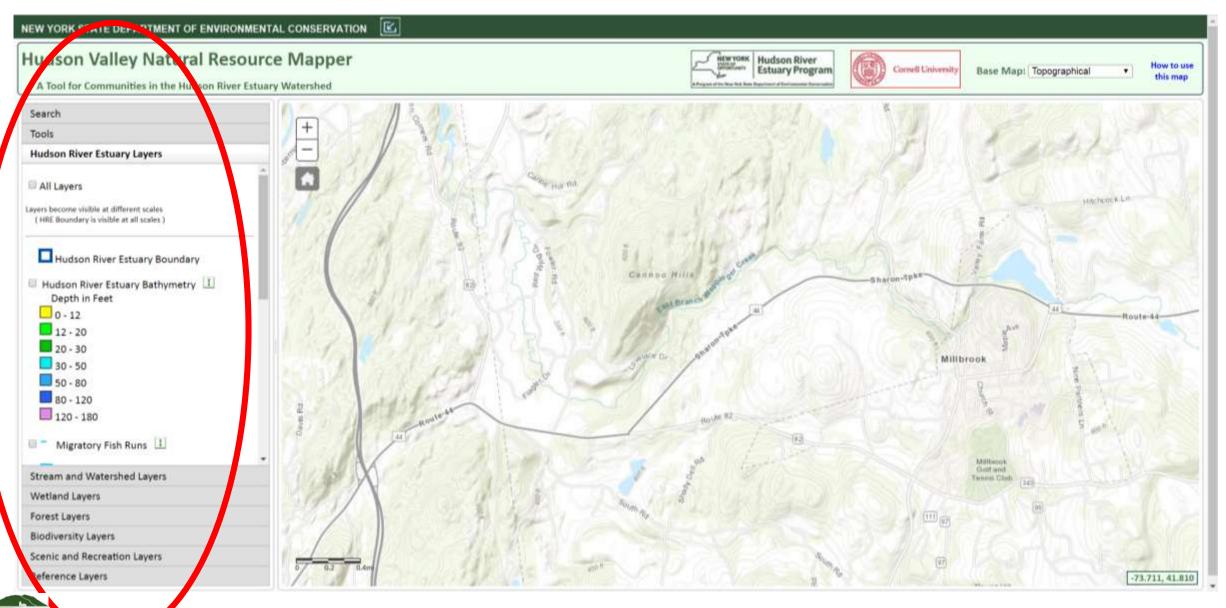
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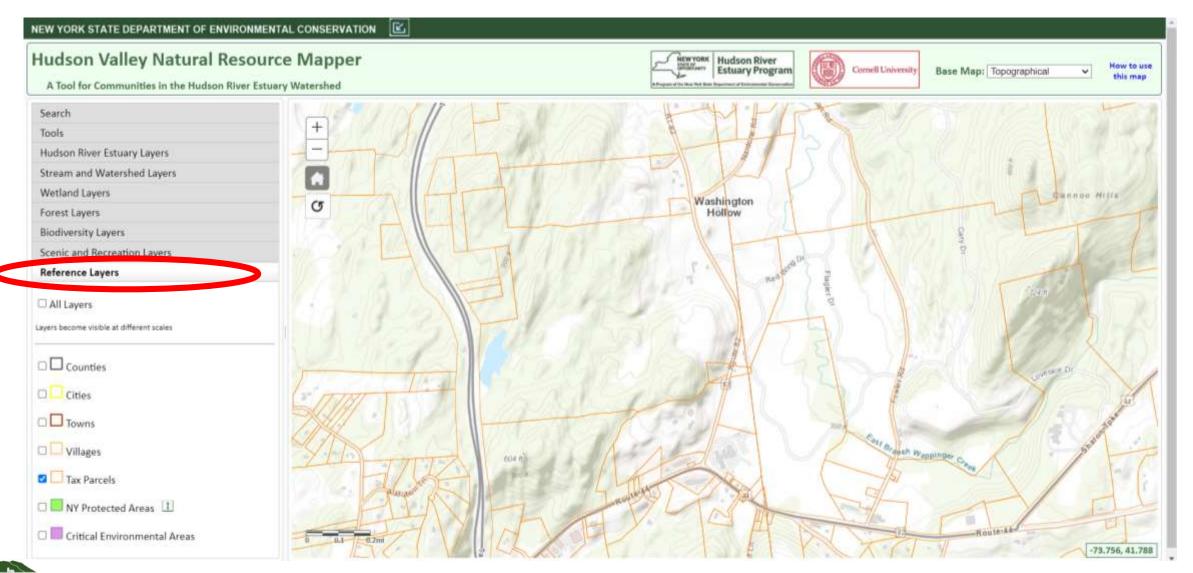
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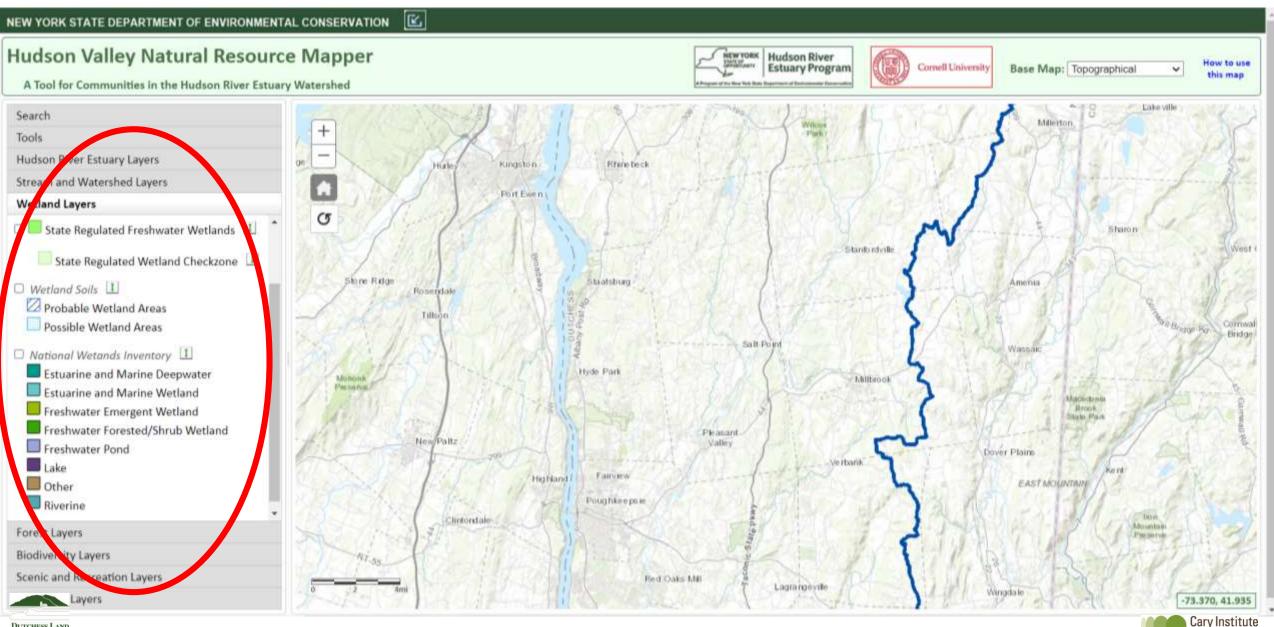


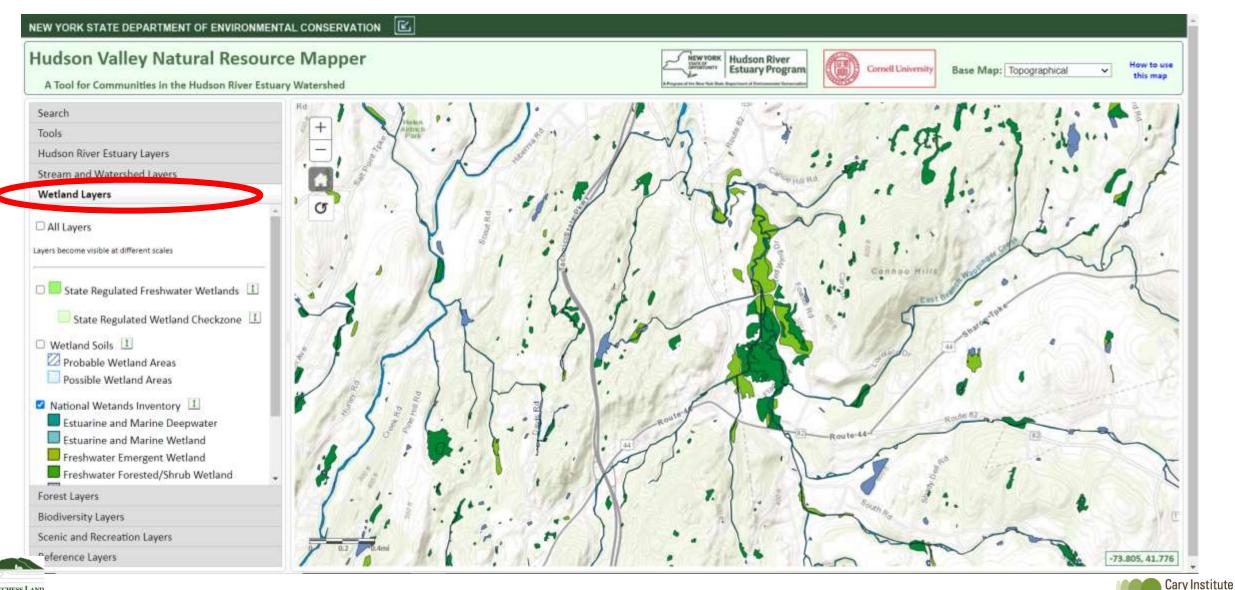


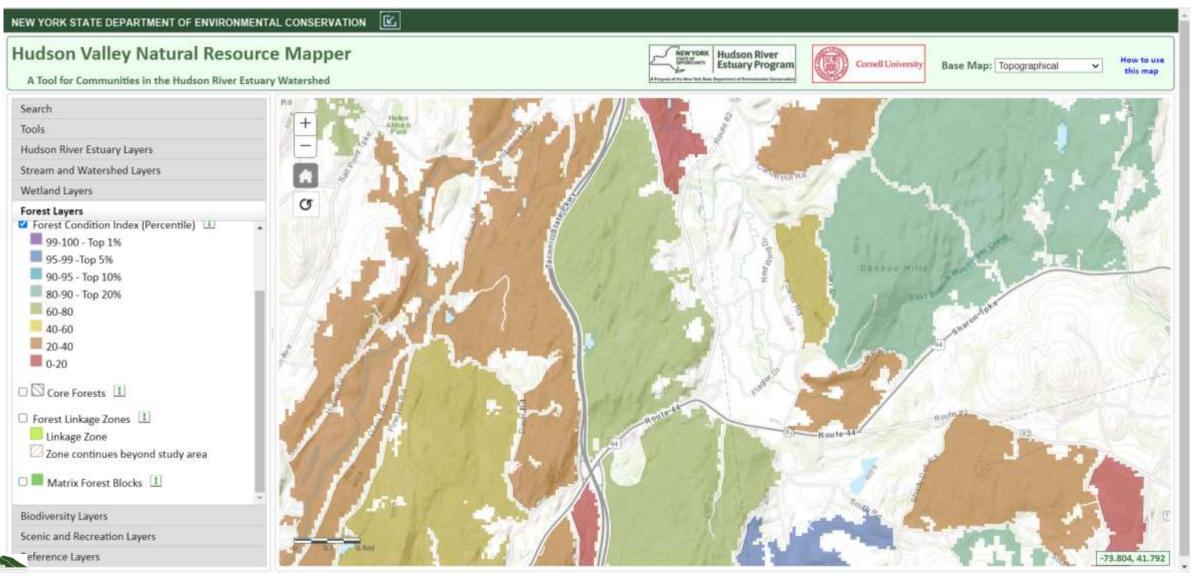








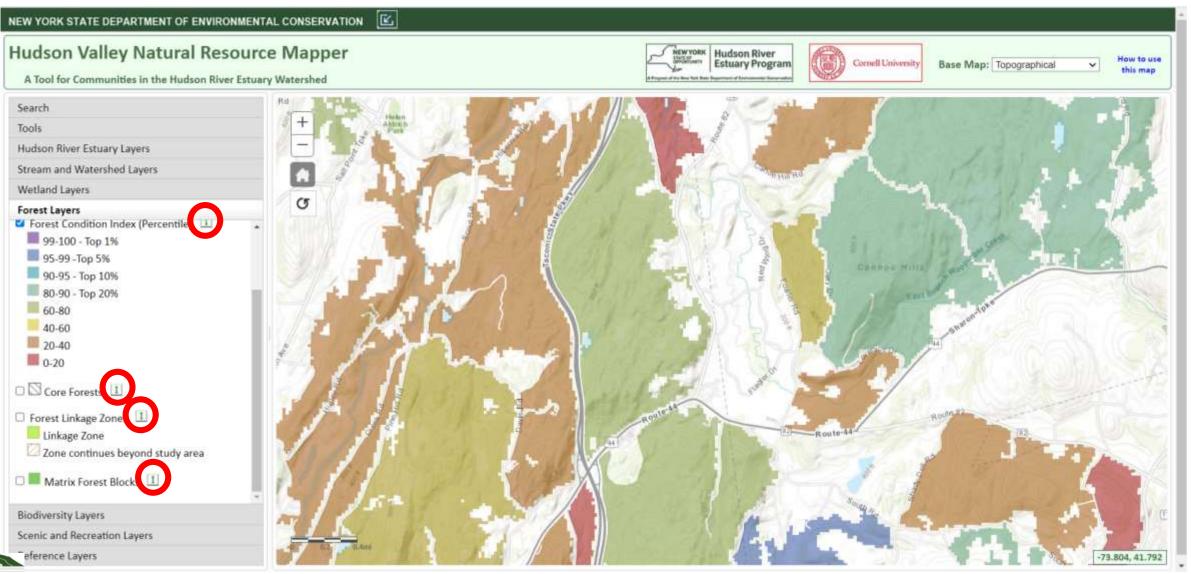








Hudson Valley Natural Resource Mapper Forests



DUTCHESS LAND CONSERVANCY



Hudson Valley Natural Resource Mapper Metadata

Hudson Valley Forest Condition Index

Conserving Hudson Valley forests is vital for the multiple benefits they provide communities, from wildlife habitat, to clean water, to flood control - but which forests are most important, and why? The Hudson Valley Forest Condition Index is a new data set that maps and prioritizes forest patches based on metrics relating to size, fragmentation, connectivity, stressors, habitat value, and carbon sequestration. The forest condition index can be used to better understand individual forest values within a regional context and to prioritize forest areas for conservation and land-use planning efforts.

The forest patches used in the index were identified using woody land cover classes from the 2016 National Land Cover Database. They represent continuous patches of forest unfragmented by roads, railroads, and non-forest habitat, with a minimum patch size of 100 acres. Individual forest patches were assigned points for 22 component metrics, which were summed to create the forest condition index. To provide additional context for users, subsets of the metrics were grouped to create sub-indexes that describe how a patch scored in the areas of fragmentation, connectivity, stressors, and habitat value. The 90th percentile class was further divided into separate classes for the 95-99th percentile and 99-100th percentile to distinguish the highest scoring forest patches in the region.

Publication Year: 2019

Publisher: New York Natural Heritage Program, NYS Department of Environmental Conservation Hudson River Estuary Program, and Cornell University

Link for GIS Data Download: GIS.NY.GOV

For more information: https://www.nynhp.org/forest-patches

Hudson Valley Core Forests

Core forests are interior forest areas surrounded by at least a 100-meter wide buffer of edge forest habitat. Core forest is especially important for sensitive wildlife including many forest songbirds, which avoid nesting near areas with human disturbance. Although the value of individual forest patches for wildlife depends on landscape context and other factors, core forests that are at least 500 acres in size are more likely to provide enough suitable habitat to support a diversity of interior forest species.

The fragmentation of large forests by new roads and development into smaller forest patches reduces or eliminates core forest and is a leading driver of biodiversity loss. Fragmentation decreases forest habitat quality, disrupts wildlife movement, and facilitates the spread of invasive species. This layer represents the results of a landscape fragmentation analysis applied to forest patches in the 2016 Hudson Valley Forest Condition Index. Avoiding further fragmentation of core forests will help conserve the integrity and habitat value of ecologically significant forest patches.

Publication Year: 2019

Publisher: New York Natural Heritage Program, NYS Department of Environmental Conservation Hudson River Estuary Program, and Cornell University

Link for GIS Data Download: GIS.NY.GOV

For more information: https://www.nynhp.org/forest-patches

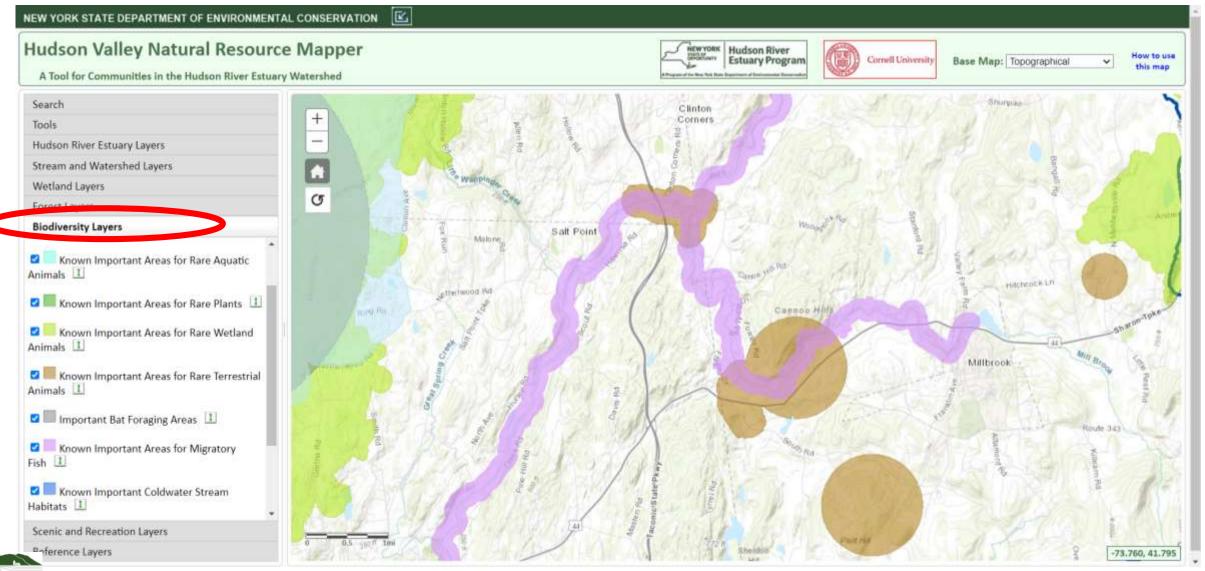
Forest Linkage Zones

DUTCHESS LAND CONSERVANCY



Hudson Valley Natural Resource Mapper

Biodiversity







iNaturalist.org

How It Works

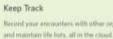


Contribute to Science

Every observation can contribute to biodiversity science, from the carest butterily to the most common backyard weed. We share your findings with scientific data repositories like the Global Biodiversity Information Facility to help scientists find and use your data. All you have to do is abserve.



Nature At Your Fingertips



Learn About Nature

naturalists and helping sitters.

Becard your encounters with other organisms.



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Crowdsource Identifications Connect with experts who can identify the

Build your knowledge by talking with other



DO

Become a Citizen Scientist First a ground with a mission that interests you, an start your own.

Help scientists and resource managers

understand when and where organisms occur.



Run a Bioblitz Hold an event where people try to find as many.

Create Useful Data



Install our mobile apps, so you can always observe, even without cell reception unwill.

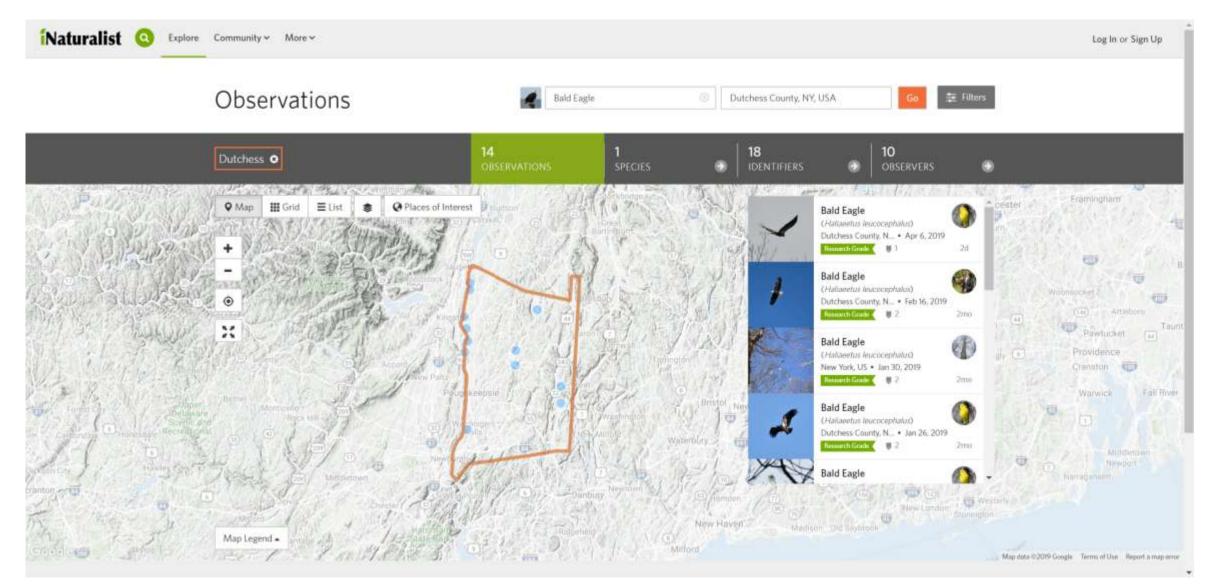








iNaturalist.org



Identification Apps

Seek by iNaturalist



Google Play

Take your nature knowledge up a notch with Seek! Use the power of image recognition technology to identify the plants and animals all around you. Earn badges for seeing different types of birds, amphibians, plants, and fungi and participate in monthly observation challenges.

Seek by iNaturalist



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Leafsnap: An Electronic Field Guide

Leafsnap is a series of electronic field guides being developed by researchers from Columbia University, the University of Maryland, and the Smithsonian Institution. The free mobile apps use visual recognition software to help identify tree species from photographs of their leaves. They contain beautiful high-resolution images of leaves, flowers, fruits, petioles, seeds and bark.

The original Leafsnap currently includes trees found in the Northeastern United States and Canada, and will soon grow to include the trees of the entire continental United States. The high-resolution images in the original app were created by the conservation organization. Finding Species.

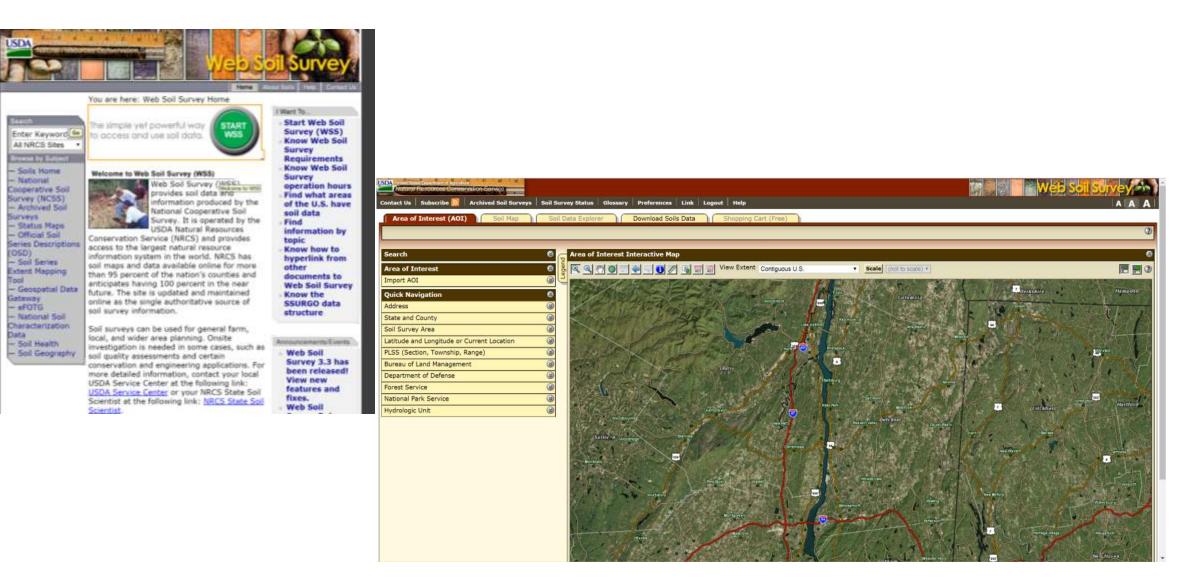
This website shows the tree species included in Leafsnap, the collections of its users, and the team of research volunteers working to produce it.

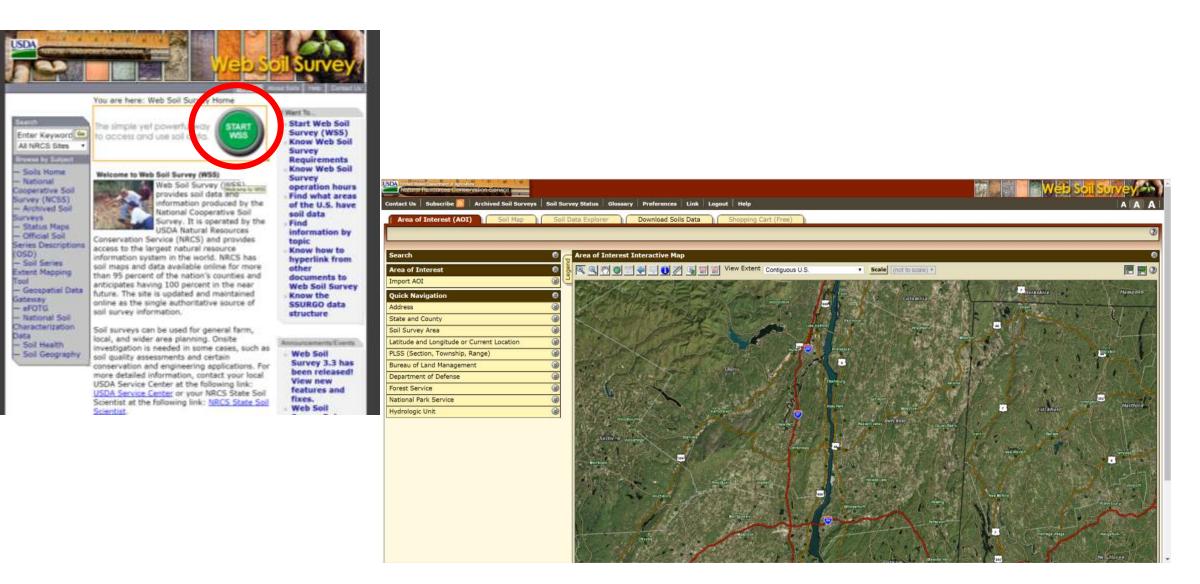
The Leafsnap UK app includes trees from the United Kingdom with species information and imagery provided by the Natural History Museum in London. More information can be found on the Natural History Museum website.

The City College of New York developed and tested curricular materials that use the Leafsnap app to help middle school students notice, group, and contextualize street trees in the Flower of the Mountain Laurel

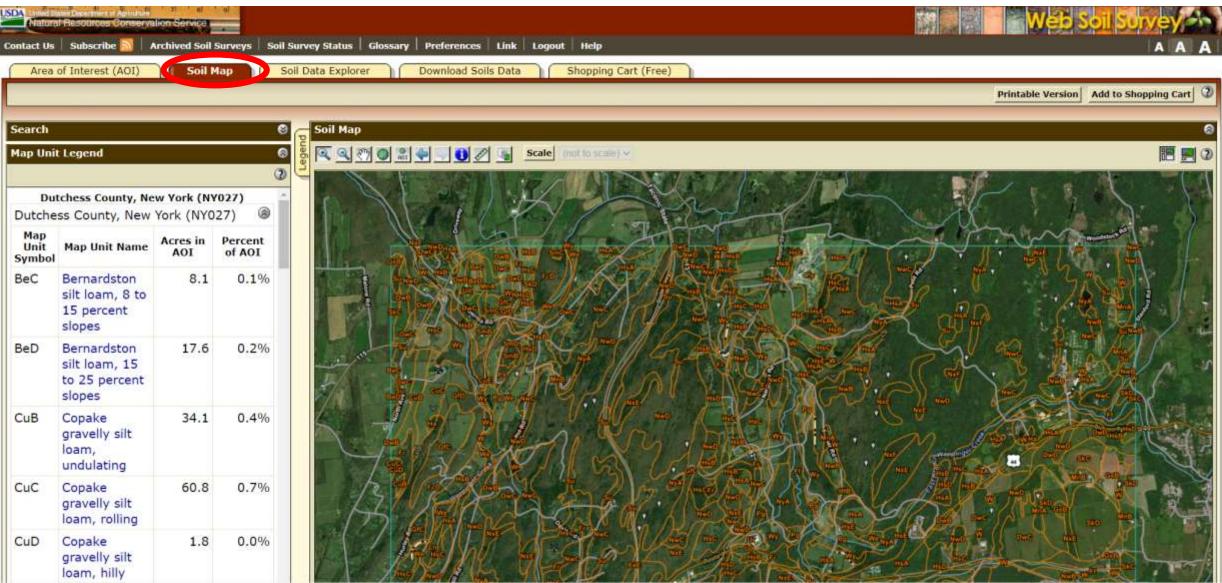
LeafSnap

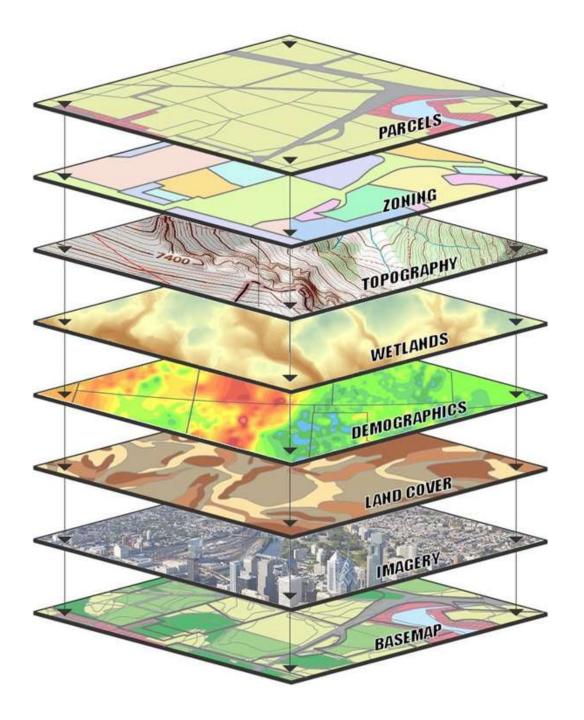






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Wayland silt loam Nassau Cardigan Complex





Relatively flat Stee

Steep and rocky

Wayland silt loam





Freshwater Emergent Wetland Upland Hardwood Forest

Relatively flat

Steep and rocky

Wayland silt loam





Cattails, arrow arum, purple loosestrife

> Freshwater Emergent Wetland

Red oak, shagbark hickory, witch hazel

> Upland Hardwood Forest

Relatively flat

Steep and rocky

Wayland silt loam





Spotted turtle, wood duck, muskrat

Cattails, arrow arum, purple loosestrife

Freshwater Emergent Wetland Box turtle, ovenbird, scarlet tanager, fisher

Red oak, shagbark hickory, witch hazel

> Upland Hardwood Forest

Relatively flat

Steep and rocky

Wayland silt loam





Because of this complexity and the long-term consequences of management decisions, improvisation is a BAD IDEA!







THINK





THINK







"The last word in ignorance is the man who says of an animal or plant: 'What good is it?' If the land mechanism as a whole is good, then every part is good, whether we understand it or not.



~Aldo Leopold~



If the biota, in the course of aeons, has built something we like but do not understand, then who but a fool would discard seemingly useless parts? To keep every cog and wheel is the first



~Aldo Leopold~



parts? To keep every cog and wheel is the first precaution of intelligent tinkering."



~Aldo Leopold~



"A thing is right when it when it tends to preserve the integrity, stability and beauty of the biotic community. It is wrong when it tends otherwise." ~Aldo Leopold~



