



Connecticut
**Department of Energy &
Environmental Protection**

**Field Visit to the Keeler Drive Property in Ridgefield, CT
Post Visit Report for 16 Acres**

Present Parties: Conservation Commission: Tony Markert, Peter Nichols and David Beers (Western District Service Forester) on 12/18/2025 from 12-1:30

Stewardship Objectives

1. Maintain properties in an ecologically sound manner
2. Maintain properties for the recreational benefit of the town



PROPERTY OVERVIEW

The property has public road frontage on Keeler Drive Road to the north and Powdermaker Drive to the west. It is surrounded by primarily residential development, with a few blocks of forest. No protected open space abuts the property. This is a mainly developed landscape, with a few small blocks of forest and farmland.

This forest is part of a small core forest block having less than 250 acres of contiguous forest. Core forests are large tracts of unbroken forest that provide a much more stable home for plant and animal species, thereby protecting biodiversity. They are forested areas surrounded by more forested areas.

The CT DEEP Natural Diversity Database (NDDDB) does **not** record occurrences of threatened or endangered species on this property. Maps showing wetland and farmland soils are attached to this report. This property is in the Still River and Housatonic River watershed.

In the attached 1934 aerial photo, the property is primarily covered in brush. There are no public trails on this property.

Please see the attached appendix for more information about your forest's history, future, and general recommendations. It also includes an appendix of Latin names for the tree and shrub species.



FOREST VEGETATION (~15 ACRES)

Tree Cover

Most Common

Red Maple

Less Common

Sugar Maple

Slippery Elm

Black Birch

Black Cherry

White Ash

Cottonwood

Red cedar

Most of this forest is a red maple swamp with a phragmites marsh in the middle. Some drier areas on the periphery grow some non-wetland vegetation. The northern edge has some dry ground, and the southeast corner has about four acres of dry ground. This corner features a young, brushy forest with a very dense, invasive, thorny understory.

Understory

There are a few maple saplings. There are also some alder and dogwood shrubs.

Ground Cover

This forest has mostly saturated wetland soils. There is a good amount of woody material throughout the forest floor.

Forest Health

Periodic flooding limits the extent and variety of tree growth. The emerald ash borer has killed most of the ash trees within the past decade.

Patches of exotic invasive vegetation grow in the understory, including barberry shrubs, multiflora rose shrubs, privet shrubs and bittersweet vines. Many areas are thick with thorny invasives. Please refer to the appendix for additional information on exotic invasive species and their control.

Wildlife Habitat

This forest provides adequate food, water, shelter, cover, and space for much of the wildlife in the area. Please refer to the appendix for additional information on wildlife habitats.

Carbon and Climate Resilience

This mature forest stores a large amount of carbon while sequestering more. Any forest products you produce will help mitigate climate change. The following recommendations are provided to enhance the resilience and adaptability of forests to climate change. More information about forest carbon and the forest's ecological services is in the appendix.

Forest Vegetation - Potential Recommendations

None

CONCLUSION

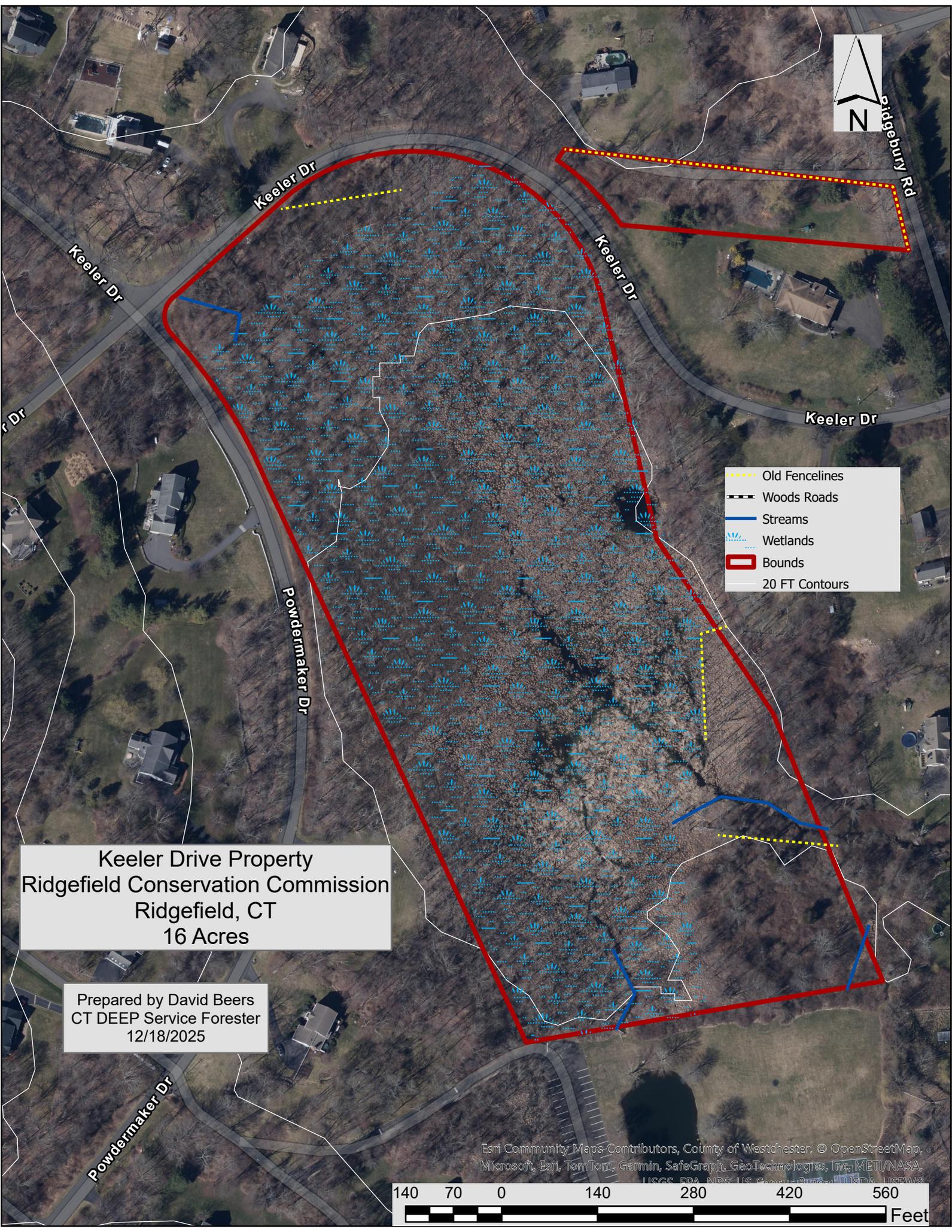
Here are some possibilities for your forest:

- Contact NRCS and a private forester about doing a forest stewardship plan*
- Properly locate and mark your property boundaries (see appendix)
 - An annual property inspection that includes property boundaries
- Enjoy your forest!

*Please consider hiring a forester to help you implement any of the recommendations in this report (see appendix). I highly recommend considering a grant to support this work: [Urban Forestry Grant Opportunities](#). Please feel free to share this report.

It is pertinent to note that this is not a stewardship plan and is not intended as a substitute for one. It is a recap report based on a brief tour of the property, without collecting any data as needed for proper planning.

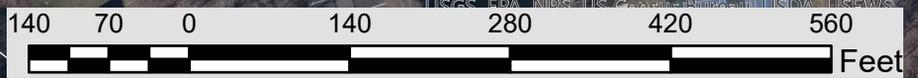


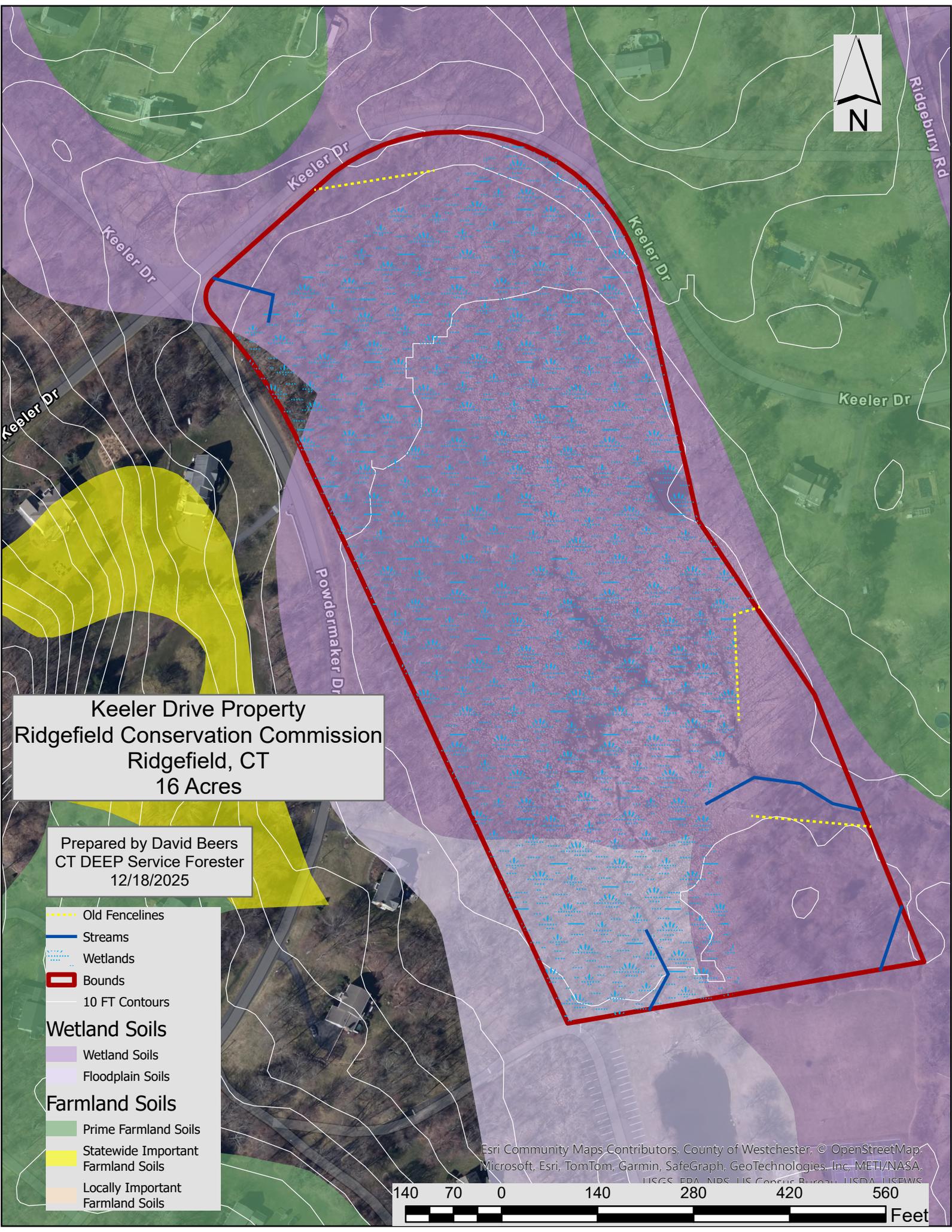


-  Old Fencelines
-  Woods Roads
-  Streams
-  Wetlands
-  Bounds
-  20 FT Contours

Keeler Drive Property
 Ridgefield Conservation Commission
 Ridgefield, CT
 16 Acres

Prepared by David Beers
 CT DEEP Service Forester
 12/18/2025





Keeler Drive Property
Ridgefield Conservation Commission
Ridgefield, CT
16 Acres

Prepared by David Beers
 CT DEEP Service Forester
 12/18/2025

-  Old Fencelines
-  Streams
-  Wetlands
-  Bounds
-  10 FT Contours
- Wetland Soils**
 -  Wetland Soils
 -  Floodplain Soils
- Farmland Soils**
 -  Prime Farmland Soils
 -  Statewide Important Farmland Soils
 -  Locally Important Farmland Soils
 -  Farmland Soils



Esri Community Maps Contributors, County of Westchester, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS



Keeler Drive Property
Ridgefield Conservation Commission
Ridgefield, CT
16 Acres

Prepared by David Beers
CT DEEP Service Forester
12/18/2025
1934 Air Photo





APPENDIX

FOREST HISTORY

Between the eighteenth-century colonial settlement and the mid-nineteenth century, most of Connecticut was cleared for agriculture, with only a few small patches of forest remaining by the mid-nineteenth century. Only 25% of Connecticut was forested in 1830. Under these conditions, a muskrat was the largest animal in the woods. Turkeys, deer, bobcats, beavers, and bears were either rare or gone. Most of the land was used for livestock pasture, with only the best soils used for hay or tilled crops. Imagine a very open agricultural landscape.

During this farming period, the stonewalls were built to keep livestock out of crops and the neighbor's property. Most of these walls were topped off with piled wood and stumps to increase their height. Stonewalls were also a depository for rocks removed from cultivated land. A stonewall with many fist-sized rocks means that one side of that wall had tilled crops, where the winter freeze of bare ground would push rocks to the surface. After barbed wire became widely available in 1875, many of these walls were supplemented with wire. Barbed wire was used to corral cows and goats, but not sheep (barbs did not hurt the sheep). Sheep pasture used smooth-wire rectangular page fencing.

Most Connecticut hill farms were abandoned between the mid-nineteenth and early twentieth centuries. The farmers either moved west in search of better farming soils or headed to the cities for employment. Immediately after the farm's abandonment, the forest began to reclaim the land again. Much of the young forestlands were then cut down repeatedly to make charcoal, which was used to fuel industrialization. Charcoal was used in metal blast furnaces and by blacksmiths.

Small trees were cut into 4' lengths and carried by hand to make a circular pile about 30' wide and 10' high for charcoal making. A ditch was dug around the circumference of the pile, and the soil from the ditch covered the pile to limit the amount of oxygen in the smoldering pile. Once the low-oxygen burn was completed in two weeks, the almost pure carbon charcoal was removed for transport to market. Charcoal produces the hot fire needed for metalworking.

While this charcoal-making process had been occurring since settlement, it reached its peak between 1880 and 1920. At that time, much of the landscape was cut multiple times, with patches of smoke rising from active charcoal mounds across the hills. By about 1925, less expensive coal had led to the decline of charcoal making, and the forest began to grow back again. The repetitive cutting of young trees for charcoal encouraged the proliferation of oak trees. Of all the tree species, oak responded most favorably to repetitive cutting. This, along with frequent wildfires, contributed to the development of the oak-dominated forest we see today.

The 1934 map is attached. Please note that you need to mentally adjust the map, as the map scale projection does not exactly match what we use today. To see what ancestral homeland existed on your property before settlement, please visit Native-Land.ca, and type in your address.

FOREST FUTURE

Active forest management can nudge a forest in different directions by manipulating which trees continue to grow and how much the forest floor is exposed to sunlight by creating canopy openings of various sizes and shapes. For example, we can nudge the future forest towards oak by leaving oaks to grow and produce acorns, creating canopy openings of sufficient size to bring in the sunlight young oaks need to grow, and hunting the deer that eat young oak trees. Without these manipulations and significant natural disturbances (wind, ice, pests), the forest will gradually transition to shade-tolerant trees not eaten by deer (hemlock, beech, black birch and red maple).

GENERAL RECOMMENDATIONS FOR FOREST STEWARDSHIP

Forest Protection

For long-term protection, a conservation easement on part of the property could be donated to a local land trust, preventing development in perpetuity. The easement's value may be income tax-deductible over several years and also provide estate tax benefits.

1. Please contact your local land trusts for more information using this link: [Find A Land Trust - Connecticut Land Conservation Council \(ctconservation.org\)](https://www.ctconservation.org/).
2. Please contact NRCS about HFRP (Healthy Forest Reserve Program) for conservation easement funding using this link: [NRCS Accepting Applications for HFRP Program | Natural Resources Conservation Service \(usda.gov\)](https://www.usda.gov/nrcs/accepting-applications-for-hfrp-program).
3. Another good link is [Estate Planning Resources and the Forest Legacy Program \(ct.gov\)](https://www.ct.gov/estateplanning).

Diversity

A healthy forest has a large diversity of native plant species, particularly trees that support a diverse array of fungi and wildlife (animals, insects, microbes). A healthy forest also features multiple layers of native vegetation, maximizing biodiversity and structural complexity. This means having trees of different ages, diameters, and heights. A healthy forest has standing dead trees (snags) and dead downed wood as essential habitat elements, which help retain moisture during droughts. A healthy forest is resilient because it can recover more effectively from diseases, pests, and extreme weather events. Increasing species and structural diversity of the forest provides multiple recovery pathways from disturbance.

To improve forest landscape diversity, consider establishing some patches of young forest. With over 89 birds, mammals, and reptiles that require young forest habitats, the young forest is nature's pantry for wildlife, thanks to its abundance of insects and berries. It also provides our mature woodland wildlife with important food and cover at critical times of the year. Ideally, 5-10% of our landscape should be young forest. Unfortunately, our landscape rarely has this much young forest because we prevent such forests from forming naturally via beaver activity, fires and floods. We can mimic natural disturbances with well-planned forest stewardship activities to create patches of young forest. Please visit [YoungForest.org](https://www.youngforest.org/) | [a fresh way to create wildlife habitat](#).

Invasives/vines

Invasive species are typically from another part of the world, and when established here, they have no native predators or competitors to regulate their population. When left uncontrolled, they out-compete what would grow naturally, including tree regeneration and other native understory vegetation. Native understory growth supports a greater diversity of native insects and arthropods that wildlife needs to forage on. It also provides more nutrient-rich berries for birds. Exotic invasive understory growth can provide a better habitat for ticks and associated pathogens while significantly reducing biodiversity. Please see: [Home | Connecticut Invasive Plant Working Group \(uconn.edu\)](https://www.uconn.edu/invasive-plant-working-group/) and https://www.conservect.org/wp-content/uploads/2021/06/Invasive_guide_2020_web.pdf

Control methods include mechanical and chemical processes. In a shady forest, cutting a vine is enough to kill it. Invasive shrubs are not so easy. Pulling the invasives out by the roots can be effective, but extremely difficult and labor-intensive. Yearly cutting back of the above-ground stems, during the growing season, will keep the invasives under control and may even kill them after a few years. The most effective control method is applying herbicide to the green foliage. You can also cut the invasive shrubs and treat the fresh stumps with herbicides to prevent resprouting.



Buckthorn Blaster herbicide applicator for vine and invasive shrub eradication: [Official Buckthorn Blaster® by NAISMA](https://www.naisma.org/)

Lawns and fields

Fields provide an opportunity to help pollinators and native insects. Insects, pollinators (including bees, butterflies, moths, beetles, flies, wasps, and hummingbirds), and the many birds that depend on them, are in severe decline. By delaying annual mowing until after the first hard frost and before the start of plant growth in the spring, you will allow pollinators to utilize your fields as food and habitat during the growing season. Another habitat management strategy is to mow one-third to one-half each year on a rotational schedule, with a 6" or more cutting height. This allows some insects to overwinter in the uncut plant stalks, providing birds with much-needed food during the winter. For this reason, early spring mowing is best, before the green-up and bird nesting season. Please remember that healthy meadows store more than double the carbon of a mowed lawn.

There are also many opportunities to create pollinator-friendly habitats/food sources by adding native plantings, allowing lawn areas to revert to natural areas, and leaving leaves and needles to cover the ground. Insects will overwinter in leaf litter and uncut plant stalks. Birds will pick through the winter leaves for insects. For more information, please visit:

[Pollinator Pathway \(pollinator-pathway.org\)](https://www.audubon.org/native-plants). Link for native plantings: <https://www.audubon.org/native-plants>.

Boundaries

Boundaries must be well-marked to protect the property from trespass and encroachment. Painted blazes are typically used to mark property boundaries. A blaze is a hand-sized shallow scrape in the bark. This scrape will last decades and not harm the tree if done correctly. When painted, this blaze is quite visible and long-lasting. Trees within arm's length of the boundaries are blazed, with the blazes facing the boundary line. Use only paint marks on the neighbor's side of the line, without blazes. The blazes should be given a new coat of paint at least every ten years. Custom signs can also be hung about every 100 feet using galvanized steel or aluminum nails. Keep the nails sticking out an inch from the tree so that the tree has room to grow without pushing the signs out. Understory vegetation and debris can be cleared from boundary lines to facilitate easy inspection of the lines. Please consider hiring a forester to locate and mark property boundaries.

Wildlife

Your forest, and the State of Connecticut in general, is lucky to have a significant and diverse component of mature oak trees (mature trees have reached maximum height). Oak trees are considered a wildlife keystone species due to the large amount and diversity of life they support, surpassing that of any other tree. Acorns, especially white oak acorns, provide the most nutritious plant-based protein for almost 90 wildlife species. Oaks overwhelmingly host the most moth and butterfly caterpillars (over 500), which anchor a biodiverse food web. Oak forests have more bird abundance and diversity compared to other forest types. Oaks produce the thickest, most ecologically beneficial, and longest-lasting leaf litter, accompanied by the most abundant and diverse soil biology. This top-of-the-line leaf litter can keep out invasive exotic stilt grass and jumping worms. It also purifies and holds the most water. For these reasons, preserving and encouraging oak growth and health in your forest is important.

Parts of this forest have legacy trees, also known as old field trees or wolf trees. These trees were growing in open pastures as a source of shade for livestock before the current forest began to grow. They are much older than the surrounding forest. Because they were once open-grown, they have large, spreading crowns and large branches low on the trunk. When the pastures were abandoned, they became a significant seed source for the present forest. These large, old trees are structurally complex, with numerous cavities, hollows, thick branches, and rough, thick bark. They are also prolific seed producers, including acorns and nuts. This structural complexity and prolific seed production attract a vast number and diverse range of insects, birds, and mammals. Underground, the old trees are also the hub and source of the complex fungal soil mycorrhizal growth that all trees depend on for water and nutrients. To make them healthier and more vigorous, such legacy trees could be protected and perhaps even given more sunlight by cutting some surrounding trees. These agrarian vestiges have become the ecological hubs in your forest. They are also a great source of future large snags and large dead, downed wood.

Ecological Services and Climate Change Mitigation

Forests remove carbon dioxide from the atmosphere (called sequestration), create oxygen, and remove many pollutants from the air and water. Forests absorb heavy rains and release that water to streams and underground aquifers during droughts. Forests regulate temperature and moisture levels. Your forest contributes to these valuable services by storing carbon in the below-ground roots and soil, as well as in the above-ground vegetation, dead wood, and fallen leaves. These services are enhanced by having a diverse mix of native tree species in various sizes and arrangements. Sustainable, scientifically based forest management to remove forest products and promote young forests or regeneration of desired species has no long-term adverse effect on your forest's ability to provide these vital ecological services. When trees are young and growing fast, they sequester carbon at high rates, and once they are large (over 18" in diameter and often older), they store the most carbon. Whether you choose to manage your forest actively or not, your forest does an excellent service to our planet's health just by being a healthy forest.

Forests store carbon in different pools, and the amount of carbon in these pools changes over time. The pools are comprised of live aboveground elements (trees, shrubs, and other plants), live belowground elements (roots and fungi), deadwood (standing dead trees [snags] and downed logs), litter (leaves, needles, and small branches), and soil organic matter. Sequestration is the process by which forests remove carbon dioxide from the atmosphere, primarily via tree photosynthesis. A younger forest (10-60 years old) stores relatively little carbon but is likely at or near its peak sequestration rate. An older, more mature forest (60 years or older) stores more carbon, with a gradually slowing sequestration rate. A mix of sequestration and storage in multi-aged forests creates a resilient carbon profile. Please remember that using and harvesting local wood is an integral part of climate mitigation and a vital tool for improving the resilience of our forests to climate change.

Mapping

Attached to this report is a geo-referenced map that the landowner can use with mapping apps. This digital map shows the landowner's location on the property, and the landowner can also record tracks and waypoints.

1. To get map layers and to view maps, please visit [CT ECO Home \(cteco.uconn.edu\)](http://cteco.uconn.edu).
2. To get soil maps, and associated soil descriptions, please visit [Web Soil Survey - Home \(usda.gov\)](http://usda.gov) and follow the instructions on the first page of this website.
3. For instruction, please see [Tutorials | Center for Land Use Education and Research \(uconn.edu\)](http://uconn.edu).

Getting Assistance

Here is a list of every licensed forester in CT: <https://www.depdata.ct.gov/forestry/ForestPractitioner/directry.pdf>

Additionally, we are seeking applicants for the Master Woodland Manager certification (MWM). Here is a link for MWM: [Connecticut Master Woodland Manager Program | Connecticut Forest & Park Association \(ctwoodlands.org\)](http://ctwoodlands.org)

To learn more about the NRCS EQIP funding Program, click [NRCS EQIP Program Help](#)

Visit CT DEEP's grants website: [Grants and Financial Assistance](#)

Wildlife habitat projects: [Partners for Fish and Wildlife | U.S. Fish & Wildlife Service](#)

To prevent erosion and water quality issues: [Best Management Practices Manual](#)



APPENDIX OF LATIN NAMES

TREES

Red Oak	<i>Quercus rubra</i>	Eastern Hemlock	<i>Tsuga canadensis</i>
Tulip-Poplar	<i>Liriodendron tulipifera</i>	Aspen	<i>Populus</i> sp.
Red Maple	<i>Acer rubrum</i>	Blackgum	<i>Nyssa sylvatica</i>
Black Birch	<i>Betula lenta</i>	Yellow Birch	<i>Betula alleghaniensis</i>
White Oak	<i>Quercus alba</i>	Chestnut Oak	<i>Quercus montana</i>
Hickory	<i>Carya</i> Sp.	Black Cherry	<i>Prunus serotina</i>
Black Oak	<i>Quercus velutina</i>	White Pine	<i>Pinus strobus</i>
Scarlet Oak	<i>Quercus coccinea</i>	Sassafras	<i>Sassafras albidum</i>
American Beech	<i>Fagus grandifolia</i>	Paper Birch	<i>Betula papyrifera</i>
Sugar Maple	<i>Acer saccharum</i>	White Ash	<i>Fraxinus americana</i>
Sycamore	<i>Platanus occidentalis</i>	Eastern Redcedar	<i>Juniperus virginiana</i>
Slippery Elm	<i>Ulmus rubra</i>	Basswood	<i>Tilia americana</i>
Pitch Pine	<i>Pinus rigida</i>	Gray Birch	<i>Betula populifolia</i>

NATIVE UNDERSTORY

Eastern Hophornbeam	<i>Ostrya virginiana</i>	Spicebush	<i>Lindera benzoin</i>
Musclewood	<i>Carpinus caroliniana</i>	Witch Hazel	<i>Hamamelis virginiana</i>
Serviceberry	<i>Amelanchier</i> Sp	Mountain Laurel	<i>Kalmia latifolia</i>
Lowbush blueberry	<i>Vaccinium angustifolium</i>	Huckleberry	<i>Gaylussacia baccata</i>
Highbush Blueberry	<i>Vaccinium corymbosum</i>	Sweet Pepperbush	<i>Clethra alnifolia</i>
Striped Maple	<i>Acer pensylvanicum</i>	Holly	<i>Smilax</i>
Hobblebush	<i>Viburnum lantanoides</i>	Greenbrier	<i>Ilex</i>
Maple-leaf Viburnum	<i>Viburnum acerifolium</i>		

EXOTIC INVASIVES

Barberry	<i>Berberis</i> Sp.	Burning Bush	<i>Euonymus alatus</i>
Multi-flora Rose	<i>Rosa multiflora</i>	Bittersweet	<i>Celastrus orbiculatus</i>
Privet	<i>Ligustrum</i> Sp	Honeysuckle	<i>Lonicera</i> Sp
Russian Olive	<i>Elaeagnus angustifolia</i>	Tree-of-Heaven	<i>Ailanthus altissima</i>