



Sustainable & Comprehensive Forest Management

Heritage Habitat & Forestry, LLC
4061 Simmons Church Rd.
Centerburg, OH 43011
(330) 419-1769 / (681) 455-7741
HeritageHabitatCo@gmail.com

Heritage Habitat & Forestry

Forestry Services Packet

A complete overview of our forestry & natural resource services

Prepared by:

Anthony F. Pappas, CF

Owner, Lead Consultant

All links are active & will direct you to the appropriate webpage, feel free to click through to learn more

Table of Contents

| | |
|---|----|
| <u>About Us</u> | 3 |
| <u>Forest Carbon Consulting</u> | 7 |
| <u>Forest Improvement Practices</u> | 10 |
| <u>Timber Inventory & Valuation</u> | 11 |
| <u>Forest Management Plans</u> | 12 |
| <u>Geospatial & Mapping Solutions</u> | 19 |
| <u>Project Planning & Oversight</u> | 20 |
| <u>Property Evaluations</u> | 21 |
| <u>Timber Sale Administration</u> | 22 |

About Us

Mission Statement

To wisely manage, conserve, and utilize our shared natural resources for the benefit of not only economic returns but also to the perpetual existence of our forests and the life within them using scientifically based and ecologically-sound forest and habitat management principles.

Who We Are

Owner Anthony F. Pappas has years of experience managing public land for the benefit of both wildlife and the eventual realization of economic returns on timber as well as working for a timber consulting company focused on ecologically-sound timber production.

From the prairies of North Dakota down to the hills of northern Alabama and out to the Ozarks of Arkansas, Anthony has experience in a multitude of forest types and habitat diversities. Taking this first-hand knowledge of “wildlife forestry,” Anthony has built his Ohio-based company around managing forests for multiple uses.

We have forestry experience in over a dozen states and counting, from upstate New York, down to Georgia, out to Kansas, and everywhere in between!



Why Choose Us

Forest management is not just about timber production or earning income. Forest management is about making conscientious decisions that will improve the long-term sustainability of our shared natural resources. Managing timber is important, but so is managing pollinator habitat, riparian zones, & other non-timber forest resources.

Credentials

Anthony F. Pappas, Owner

Certified Forester

Registered Forester, Arkansas & West Virginia

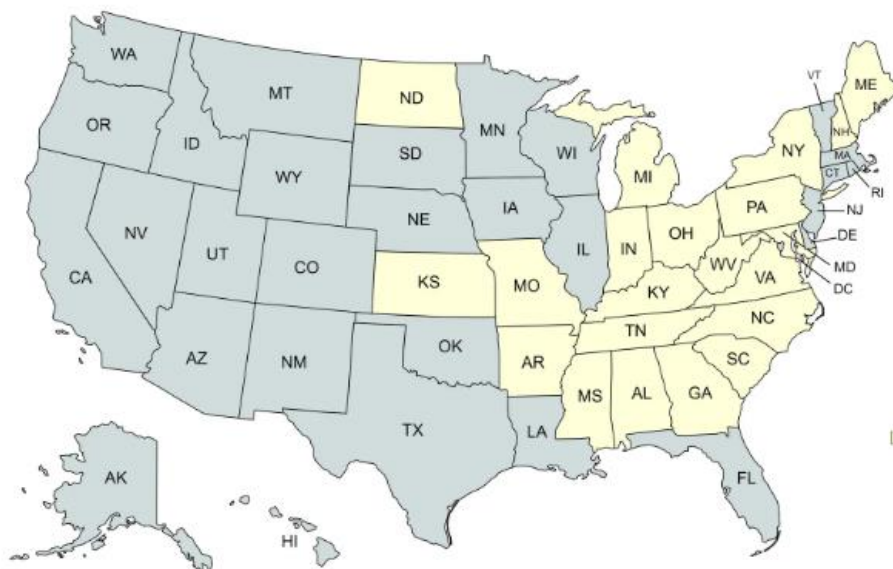
NRCS Technical Services Provider (TSP)

Certain states require such registration for forestry professionals, Ohio & Pennsylvania do not, therefore no license is required to practice forestry in those states.

Administered by the Society of American Foresters, the [Certified Forester program](#) ensures qualified foresters meet rigorous education & experience requirements, while adhering to ethical standards of practice in the profession.

Administered by the Natural Resources Conservation Service (NRCS), [technical service providers](#) are qualified entities able to offer conservation services and practices to landowners.

Experience



Created with mapchart.net




Memberships



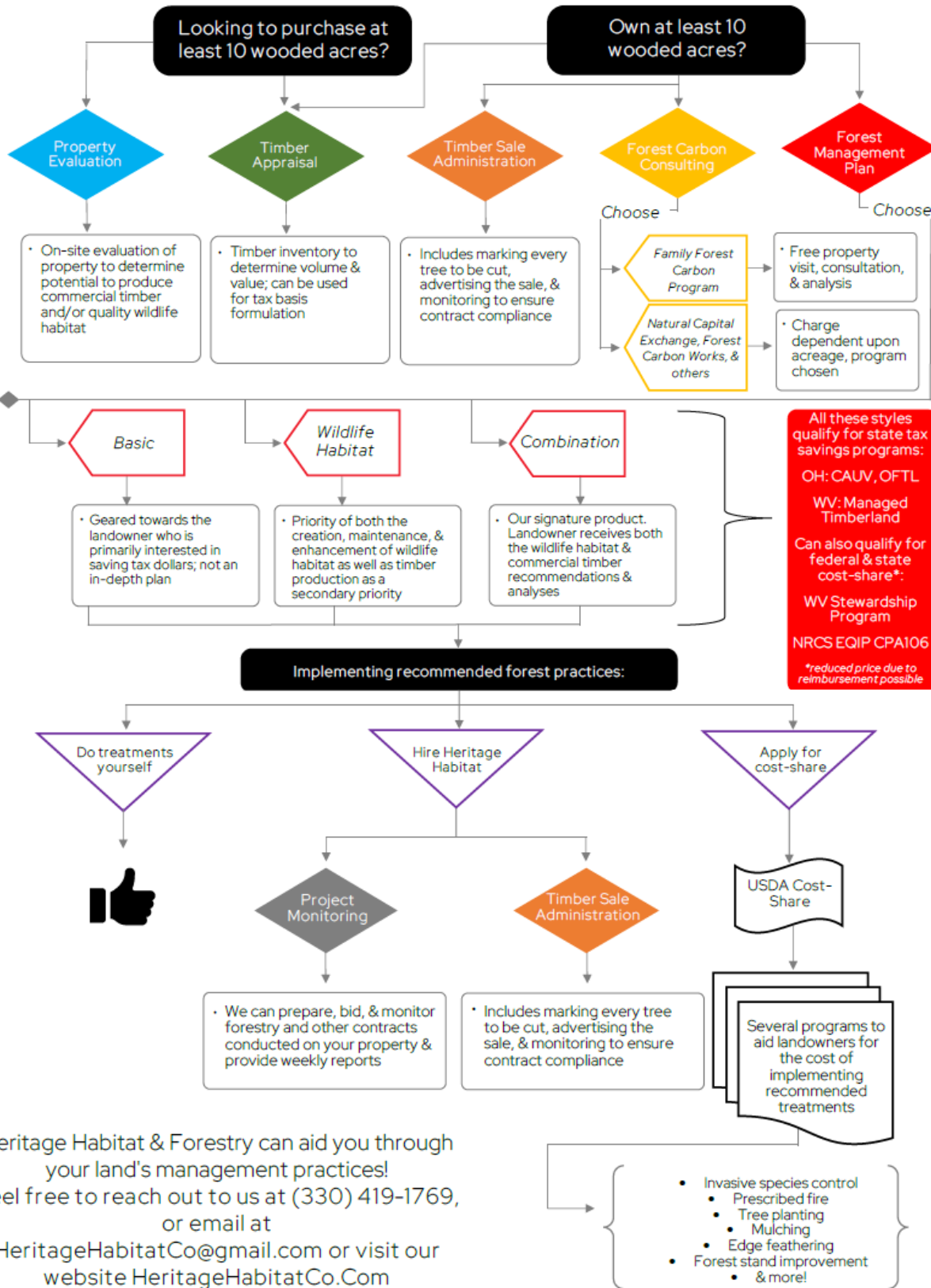
Better Business Bureau

Accredited business – [our profile](#)

Office Locations

| | | |
|---|---|--|
|  <p>Ohio Centerburg, OH</p> |  <p>Pennsylvania Clarington, PA</p> |  <p>West Virginia New Milton, WV</p> |
|---|---|--|

Learn more at heritagehabitatco.com/about



Heritage Habitat & Forestry can aid you through your land's management practices!
 Feel free to reach out to us at (330) 419-1769, or email at HeritageHabitatCo@gmail.com or visit our website HeritageHabitatCo.Com

Forest Carbon Consulting

Introduction

There are several private companies that offer landowner forest carbon programs. These programs essentially pay the landowner for their trees' carbon dioxide storage. We offer forest carbon consulting to advise landowners in the available forest carbon programs offered in their area.

Contract lengths vary from decades to a century depending upon the program you choose. Income may range from a couple hundred dollars to several thousand dollars!

We can advise you through the different programs to help you choose which program fits your goals and ownership plans for your property. We work directly with these companies to provide landowners with assessments, at no charge from us!

Why Heritage Habitat & Forestry

To-date, we have conducted over 100 forest carbon consultation and project advisements in various states, including Ohio, Maryland, Pennsylvania, and West Virginia. We have a direct professional relationship with several forest carbon companies, and are able to communicate efficiently with program administrators to answer any questions, provide feedback, etc.

Our service includes a forestry consultation site visit whereas we walk through and discuss your property, as well as your goals for your land and what you strive to accomplish. Our experience, professionalism, and personability with forest carbon and landowner consultations make us an exceptional choice to provide your forest carbon consulting needs.

Types of Forest Carbon Programs

We provide consultation and advisement for types of forest carbon programs: Improved Forest Management, Avoided Conversion, and Afforestation/Reforestation. The type of program best suited for your property will be evaluated during our consultation process. We have several carbon companies providing one or the other type of program to private landowners.

Property Visit

For those program(s) that require an on-site assessment, Heritage Habitat will visit your property on your schedule, preferably to meet you on property to conduct a walk through in addition to the forest inventory required for the program you have applied for.

Large Landholdings

For properties over 5,000 acres, in addition to the previously mentioned programs, there are carbon project developers who may develop and individualized forest carbon program. Research in to these programs is on an individual case-by-case basis. If your property is greater than 5,000 acres reach out to us specifically to learn more about individual carbon project development.

EARN INCOME FROM FOREST CARBON CREDITS

Forest Carbon Credits.
Timber Sales.
Land Tax Deductions.

LANDOWNERS...

- Get paid to grow timber
- Average payments from \$10/ac/year and up
- Consult landowners through various programs

**Know your options.
Speak with a professional
forester.**



[LEARN MORE](#)

(330) 419-1769
heritagehabitatco.com



Conclusion

Heritage Habitat & Forestry is on the cutting edge of forest landowner carbon programs. We can actively consult you through a variety of programs, define confusing terminology and concepts, and streamline the assessment process in order to provide you with the fairest and most comprehensive forest carbon quotes available today! Feel free to reach out with additional questions, comments, or to get started!

| Landowner Forest Carbon Project Analysis | | | | | | |
|---|--|------------------------------------|-------|-------------------|---|--|
| Name | | Approx. Merchantable Volume | | Board Feet |  | |
| Date | | | | BF/ac | | |
| Acres | | | | Total | | |
| State | | | | \$/ac | | |
| Program | | | | \$/ac/yr | | |
| Term Length | | | | \$/BF | | |
|  | | Comparable Offers | | Your Offer | % Difference | |
| | | | | \$/ac | | |
| | | | | \$/ac/yr | | |
| | | | \$/BF | | | |
| Notes | | | | | | |
| | | | | | | |
| Bottom line: | | | | | | |
| | | | | | | |

*Prepared by: Anthony F. Pappas, CF © 2022, Heritage Habitat & Forestry, LLC
An example of a landowner carbon analysis.*

Learn more at heritagehabitatco.com/forest-carbon-consulting

Forest Improvement Practices

Introduction

These practices include non-timber harvesting methods to improve the quality of your woods, including herbicide application, edge feathering, & other non-harvest practices. Typically, this work is contracted by Heritage Habitat to other vendors.

Chainsaw Treatments

Examples include edge feathering, hinge cutting, midstory removal of undesirable trees, crop-tree release, etc.

Any such non-timber harvest practice to improve sunlight availability and residual tree quality.

Herbicide Application

Foliar, hack-and-squirt, & cut stump treatments available.

Our Process

We will identify where on the property the work is needed, in what capacity, and at the appropriate time of year (typically through one of our Forest Management Plans).

We have a list of contractors available to complete the work, with Requests for Quotes being sent to each dependent upon the work to be done.

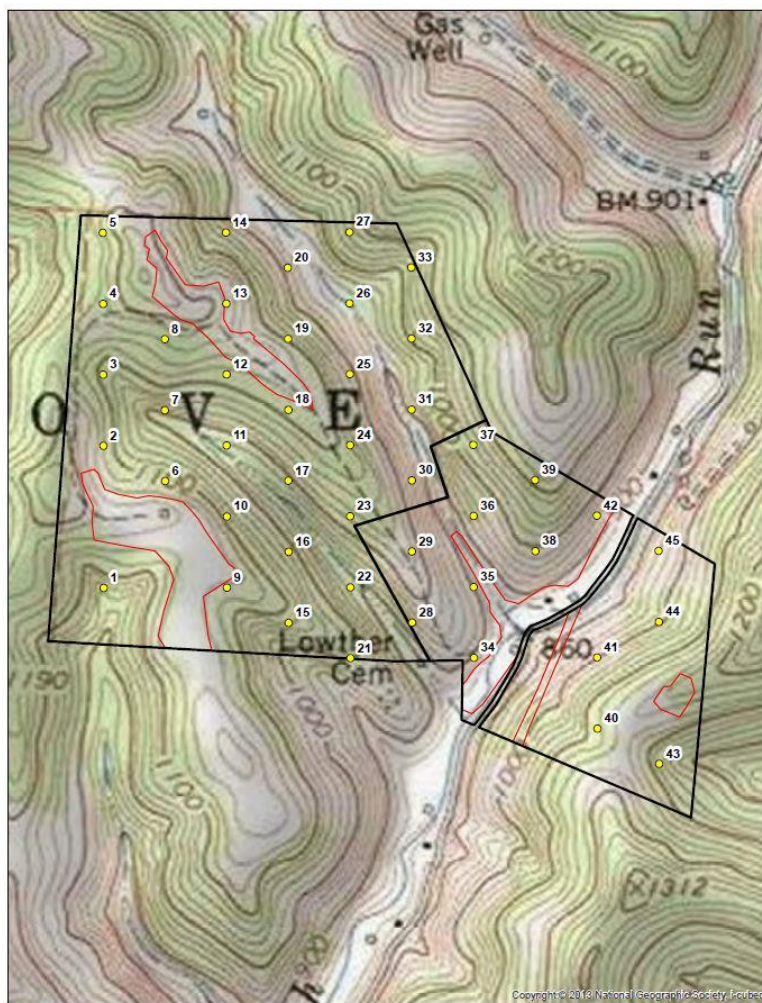
We can then monitor the project from beginning to end, ensuring compliance through our Project Oversight service.

Timber Inventory & Valuation

Introduction

Heritage Habitat can inventory your property's timber, break it down by species composition, diameters, merchantable height, etc. & estimate a fair market value for your timber.

Forest inventories can be used for timber valuations and preparatory analysis for timber sale administration.



An example of a landowner timber appraisal sampling layout.

Forest Management Plans

Introduction

Several states offer landowners a substantial tax benefit by having an approved forest management plan in place.

Federal & State Forest Landowner Programs

Ohio - [Ohio Forest Tax Law](#)

OFTL provides a 50% reduction of property taxes on qualifying forested acreage.

Minimum qualifications include: 10 acres of forestland, marked boundaries, & approved forest management plan.

Source: Ohio Dept. of Natural Resources, Ohio Forest Tax Law

Ohio - [Current Agricultural Use Value](#)

CAUV provides tax savings to landowners by assessing forested property as commercial agriculture rather than its "highest and best" potential use. Results in typically >50% reduction of taxes on qualifying acres.

Minimum qualifications include: 10 acres of forestland, marked boundaries, & approved forest management plan.

Source: Ohio Dept. of Taxation, Current Agricultural Use Value

West Virginia - [Managed Timberland Program](#)

MTP provides significant tax incentives for forest landowners who practice sustainable forestry on their property.

Minimum qualifications include: 10 acres of forestland, halt on timber harvest until plan approved, & approved forest management plan.

Source: West Virginia Div. of Forestry, Management Assistance

West Virginia – [Stewardship Program](#)

West Virginia also offers a state cost-share program to assist landowners in paying for a forest management plan to be developed on their property.

Nationwide – [Environmental Quality Incentives Program](#)

EQIP is a program of the Natural Resources Conservation Service, under the USDA, that provides financial & technical assistance to landowners to address natural resources concerns on their property. Funding may be available to qualified landowners for practices such as: invasive species removal, forest stand improvement, & more.

Source: USDA, Environmental Quality Incentives Program

Our Management Plan Styles

We offer three different styles of management plans, all of which qualify for state tax programs. It is up to you which style fits your goals best.

Prices vary by acre. We do not charge for mileage or hourly, only by number of wooded acres.

We specialize in sustainable and comprehensive forest management. All our management recommendations are geared towards long term forest health and ecosystem function.



WE WRITE **CAUV & OFTL**
FOREST MANAGEMENT PLANS!
SAVE AT LEAST 50% on your wooded acres taxes!

330-419-1769

Basic Forest Management

This management plan style is geared towards the landowner who is primarily interested in saving tax dollars on the forested acreage.

This plan incorporates scientifically backed and ecologically-sound forest management principles and techniques in order to grow, maintain, and reproduce commercially viable timber species while providing periodic income for the landowner.

Includes:

- Landowner Goals & Objectives
- Long Term Forest Sustainability & Health Priority
- Stand Maps
- Soil Map
- Treatment Schedule
- Treatment Map
- Forest Stand Descriptions & Analysis
- Forest Resources Description

Forest Wildlife Habitat Management

This management plan style's priority is both the creation, maintenance, and enhancement of wildlife habitat throughout your property as the primary priority as well as the sustainable growth and eventual harvest of commercial timber products as a secondary priority.

This style incorporates scientifically backed and ecologically-sound habitat management principles and techniques in order to promote and reproduce commercially viable timber species while also prioritizing wildlife habitat enhancement practices such as: creation of bedding thickets, edge feathering, vertical and horizontal forest diversity, promotion of herbaceous species, etc.

Includes:

- Landowner Goals & Objectives
- Long Term Forest Sustainability & Health Priority
- Stand Maps
- Soil Map
- Treatment Schedule
- Treatment Map
- Forest Stand Descriptions & Analysis
- Forest Resources Description
- Habitat Conditions & Analysis
- Openlands Stand Descriptions & Analysis

Combination Forest Management

This plan is exactly as the heading implies! You receive both the wildlife habitat management recommendations as well as a timber appraisal and treatment recommendations as described above.

This is Heritage Habitat & Forestry's signature product!

Data Delivery

For all our management plan styles, the landowner will receive the follow data package:

- Your personalized, property-specific management plan with recommended treatments and practices to improve your property based upon your goals & objectives
- A soil report of your property
- Any maps used to create your plan
- All digital GIS files used to create your maps
- Inventory data, both raw & refined in Excel worksheets
- Any relevant landowner fact sheets provided by university extension offices, USDA, & others

| | Basic | Habitat | Combo |
|---|-------|---------|-------|
| Landowner Goals & Objectives | X | X | X |
| Qualifies for WV Stewardship, NRCS cost-share funding | | X | X |
| Long-term Forest Sustainability & Health Priority | X | X | X |
| Stand Maps | X | X | X |
| Soil Map | X | X | X |
| Treatment Schedule | X | X | X |
| Treatment Map | X | X | X |
| Forest Stand Descriptions & Analysis | X | X | X |
| Forest Resources Description | X | X | X |
| All field data & georeferenced maps including in your plan | X | X | X |
| University Extension factsheets regarding specific forestry terms | X | X | X |
| Unlimited over-the-phone assistance included | X | X | X |
| One-time virtual meeting to review management plan | | | X |
| Habitat Conditions & Analysis | | X | X |
| Openlands Stand Descriptions & Analysis | | X | X |
| Timber Valuation | | | X |
| Stand & Stock Tables | | | X |
| Diameter Distribution | | | X |
| Forest Productivity Map | | | X |
| Statistical Forest Inventory Information | | | X |

NRCS EQIP plans are not included in this table, as those plans have their own set of requirements.

Step-by-step Guide

Step 1: Choose Your Management Plan Style

- Heritage Habitat offers three distinct management plan styles – Basic, Wildlife Habitat, and Combination.
- Depending upon the style you chose, our plans are geared specifically to that style.
- It is up to you, the landowner, to decide which style you want your management plan prepared in.

Step 2: Schedule a Site Visit

- This will consist of Heritage Habitat meeting you on your property to walk your land and discuss with you what your goals and objectives are for your property. Do you hunt? Do you have a desire to tap maple syrup? Have you cut firewood in certain areas or planted trees somewhere? These types of questions will be asked in order to get a better understanding of your goals for your property.
- Typically, depending on acreage, this takes a couple hours.
- This is the only field step that requires your direct involvement. Unless, of course, you wish to skip this walk with us!

Step 3: Forest Inventory

- This step is crucial for the development of your management plan and not all forestry companies offer this service for the development of landowner management plans.
- A forest inventory consists of Heritage Habitat collecting data on numerous GPS sample points plotted on your property. Once on plot, trees are determined to be in/out (counted or not counted) for the sample and the following data is collected: tree species, number of trees, merchantability of tree, diameter of tree, and other related points dependent upon which style plan you chose.
- This data is then worked up in our office to provide us and you, the landowner, with accurate and concise information on what is actually growing on your property.
- With this data, we can determine the following that are relevant to the style of management plan you chose: volume of timber, value of timber, species composition, average diameter, forest density, etc.

Step 4: Data Work-Up

- Heritage Habitat will then use information from the site visit and the forest inventory to write your management plan that is geared towards your goals and objectives
- All data, maps, and related documents relevant to your plan will be provided to you in a compressed zip folder digitally. Again, not all forestry companies provide the landowner with this wealth of information.

- These files include:
 - Your personalized, property-specific management plan with recommended treatments and practices to improve your property based upon your goals and objectives
 - A soil report of your property
 - Any maps used to create your plan
 - All digital GIS files used to create your maps
 - Inventory data, both raw and refined in Excel worksheets
 - Any relevant landowner fact sheets provided by the NRCS and OSU Extension, among others

Step 5: Landowner Plan Submission

- The final step is for you, the landowner, to submit your new management plan to the appropriate agency for whose program you are applying for.
- Heritage Habitat will aid you the best we can in this process.

Conclusion

All recommended management practices are based on proven science and are only applied if they meet the following criteria: 1) ecologically and environmentally sound and will do no harm to the sustainability of the natural resource, 2) fits the landowner's goals and objectives, and 3) is realistically able to be accomplished given the landowner's constraints

The health and sustainability of natural resources is Heritage Habitat & Forestry's primary focus.

Geospatial & Mapping Solutions

Introduction

Using today's advanced mapping programs, including Geographic Information Systems (GIS), we can create comprehensive maps to meet your goals.

GPS Mapping

Using GPS, we can map out specific boundaries, trails, roads, access, etc. throughout your property.

GIS Mapping

Using GIS, we can map out specific boundaries, trails, roads, access, etc. throughout your property at an even finer detail compared with using solely a GPS unit.

Preliminary Access Establishment

Using a combination of GPS and GIS, we can aid in the preliminary stages of laying out logging roads, forest access, food plots, etc.

Project Planning & Oversight

Introduction

We can prepare, bid, and monitor forestry and natural resource contracts conducted on your land. Herbicide work, chainsaw treatments, etc., can be bid on across our qualified vendor lists, offers prepared and presented to landowner, and contract execution and monitoring all provided at an hourly rate.

Benefits of Project Oversight

The landowner saves time and money by hiring Heritage Habitat to administer various forestry and natural resources contracts on their behalf.

Can be helpful for a variety of reasons:

- Contract preparation
- Open bidding to our list of qualified vendors
- Bids presented to landowner with you having final authority to determine which contract is right for you
- Contract monitoring over the term of the agreement to ensure quality and compliance

Property Evaluations

Introduction

Interested in a 3rd-party opinion on a property you may be interested in purchasing? This service includes a personal walk-through of your property, with a 1- to 2-page report detailing timber & wildlife habitat potential based on the walk-through.

Purposes of Property Evaluations

This is a cheaper option than a forest management plan, although property evaluations do not qualify for any of the mentioned tax-savings programs or EQIP applications.

Can be helpful for a variety of reasons:

- On-site evaluation of a property you may be interested in purchasing
- Assessment of the potential of your property to produce quality wildlife habitat and/or commercial timber
- 3rd-party evaluation of another party's claims of habitat and/or timber quality

Timber Sale Administration

Introduction

Interested in selling timber? We can administer your sale from beginning to end. Our administration includes marking every tree to be cut, advertising the sale, & monitoring to ensure sedimentation & erosion law compliance.

When you hire Heritage Habitat & Forestry to administer your timber sale, you can rest assured knowing that we place the upmost value on sustainable forestry.

When marking your timber (see Step 2) we will never recommend or condone the removal of all high value trees...this is called "high grading". High grading can be defined simply as taking the best and leaving the rest. This method of timber harvest is unsustainable, unscientific, and unethical.

Our marking methods ensure a sustained approach to the forest as a whole. We may only harvest a handful of the "best" trees but remove a majority of the "junk" trees.

If you've been approached by a timber buyer in the past, keep in mind that many will be offering you a price based on a high grade removal...the profit may sound enticing, but the damage caused to your forest as a whole will take several decades and active management to correct!

The Process

Step 1: Marking Your Timber

- Timber marking consists of Heritage Habitat painting each tree individually that is to be cut and sold across your entire timber sale area as well as flagging your timber sale boundary.
- While painting each tree, we collect more data (marking tally) such as the species of the tree, tree diameter, and merchantable height.
- Using this additional data, we can calculate precisely how much volume is being removed from the property, as well as project what the residual forest species composition will look like post-harvest.
- This "marking tally" will provide us with an estimate on the timber value that is to be sold. Using this number, you can determine which bid price to accept (if any at all).

Step 2: Advertise Your Timber

- At this point, Heritage Habitat will prepare a bid packet for your timber sale, which includes:
 - Timber sale inventory of marked timber

- Map of your property, timber sale boundary, purchaser access, and log deck locations
- Directions to and road map showing location of timber sale area
- Sealed-bid schedule setting time and date deadline for receipt of sealed bids; time and location of private bid opening of all timely bids by HHF.
- Description of sealed-bid procedure:
 - Date and location of signing of timber sale contract
 - Forms of acceptable bidding
 - Forms of acceptable payment
 - Time and place of signing of landowner's contract with purchaser
 - Purchaser's payment schedule
- A sealed bid packet will then be mailed to Heritage Habitat's list of potential purchasers (as well as any purchasers the landowner may have in mind), and a date will be set to open the bids.
- The landowner always retains the right of refusal of any and all bids for any reason if you are not satisfied with the bid prices.
- Heritage Habitat will conduct tours of the timber sale area to any interested purchasers.

Step 3: Selling Your Timber

- Once the landowner has accepted the bid price of one particular purchaser, Heritage Habitat will furnish a three-party contract between landowner, purchaser, and Heritage Habitat. We will never sign a timber sale contract on behalf of the landowner. In this contract, Heritage Habitat and the landowner will detail precisely how the landowner wants the timber sale to be conducted, what the end results will look like, etc.
- Heritage Habitat will then advise the landowner on the harvesting schedule and operations, as needed.
- Heritage Habitat will conduct periodic unscheduled inspections of the logging operation to ensure the purchaser is adhering to all specifications outlined in the timber sale contract.

Step 4: Timber Sale Close-out

- Lastly, Heritage Habitat will conduct a thorough walk-through of the timber sale area to ensure all contractual obligations of the purchaser have been met.

Conclusion

Heritage Habitat does not and will not recommend “high-grading” timber harvests. This is a logging style that “takes the best, leaves the rest”. This method is not sustainable, not ecologically sound, nor scientifically backed.

In all timber sales that Heritage Habitat marks, we select each “cut” and “leave” tree deliberately with the goal of long-term forest sustainability that is both scientifically backed and ecologically sound. A timber sale is not only the removal of the standing timber on the property, but also the “grooming” of the next generation of forest.

Heritage Habitat will not make any financial decisions on behalf of the landowner without prior approval. All major timber sale-related decisions will involve landowner consent. The landowner can be as involved as he/she wants to. Heritage Habitat will make all appropriate accommodations to ensure the easiest timber sale process from beginning to end.

GENERATE INCOME FROM

WOODLAND

There are multiple ways to both save & generate income off of wooded properties.

Know your options.

**Forest Carbon Credits.
Timber Sales.
Land Tax Deductions.**

LEARN MORE

(330) 419-1769

heritagehabitatco.com



Visit our website to view a detailed list of services & descriptions.
heritagehabitatco.com

- Forest carbon consulting
- Forest improvement practices
- Timber inventory & appraisal
- Forest management plans
- Geospatial & mapping solutions
- Project planning & oversight
- Property evaluations
- Timber sale administration