



# FOREST MANAGEMENT PLAN

*Prepared for*

Timothy C. Lavelle DDS  
207 Columbus Rd.  
Athens, Ohio 45701  
740-448-6684

*Prepared by*

Dean A. Berry  
Forester  
13 Sunset Lane  
The Plains, OH 45780

For forestland located in  
Sections 29,30,31,32 of Berne Twp.  
Athens County, Ohio  
495 M/L acres in tract  
485 M/L acres Cert Tree Farm

**Athens County Tax Parcels\***

\*see enclosed sheets for ID numbers & acreages

## LANDOWNER MANAGEMENT OBJECTIVES

1. Maintain and improve the productivity of this forestland.
2. *Grow tree species, which will provide products for sale.*
3. Leave this forestland in better condition for future generations whose need will be greater than ours.
4. Manage the property for all attributes and opportunities that exist in a forest ecosystem of interest to the owner including recreation, wildlife management, soil and water management, forest protection, timber products management, and other compatible conservation uses.
5. *Develop and maintain favorable food and cover conditions for game and other wildlife.*
6. Create interest and appreciation in the many intangible values such as songbirds, wildflowers, plants, mushrooms, nuts, and flowering shrubs which are all a part of the managed forest land.
7. Employ the use of cultural treatments on the better forest land sites and thus shorten the time period necessary to produce a high quality sawlog or veneer product.
8. Conserve the soil from wind and water erosion.
9. Conserve the soil and water by installing and maintaining practices, which will reduce soil erosion. A properly managed stand of timber will hold more water and slow down flood waters better than any other crop.
10. Select tree species best suited to the soil and site's capability.

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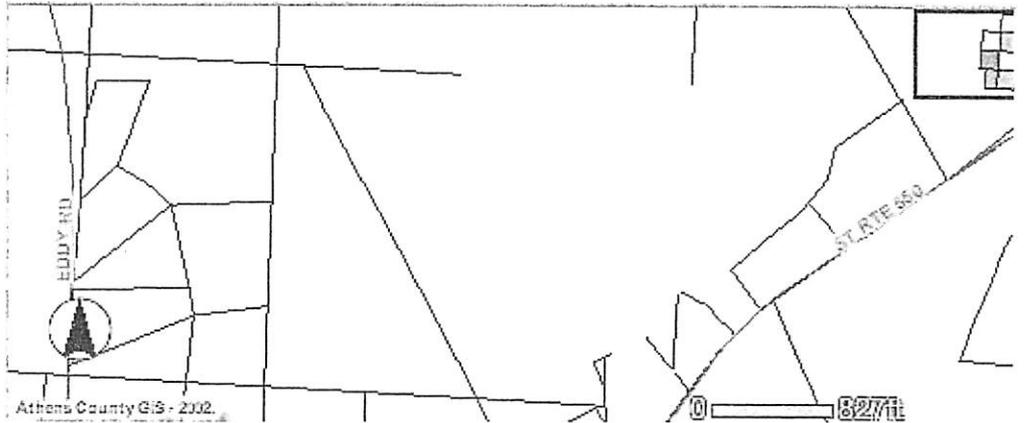
Parcel ID

House Address

## Layers

Visible

- Roads
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- Sections
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Select **Parcels**   Scale 1: 15622



Help

### Parcel Attributes

Parcel ID	C0100100388.00
Parcel Address	S R 550
Owner	LAVELLE TIMOTHY COLIN DDS
Owner Address	P O B 5518, ATHENS OH 45701
Legal Description	SEC 14 FRA 7 37.48A
Acresage	37.48
Parcel Date	5/6/1996

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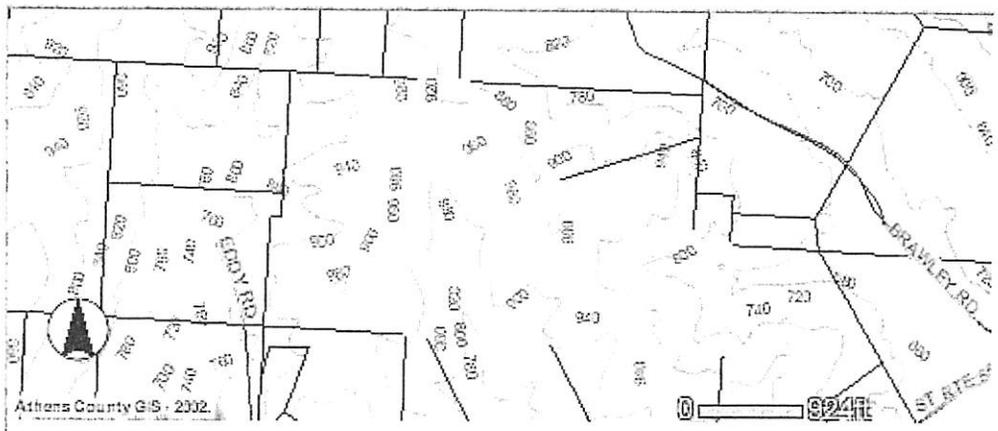
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Select  
Parcels

Scale 1: 20102



Help

### Parcel Attributes

Parcel ID	C0100100389.00
Parcel Address	S R 550
Owner	LAVELLE TIMOTHY COLIN DDS
Owner Address	P O B 5518, ATHENS OH 45701
Legal Description	SEC 14-15 FRA 1 95.90A
Acreage	95.90
Parcel Date	5/18/2006

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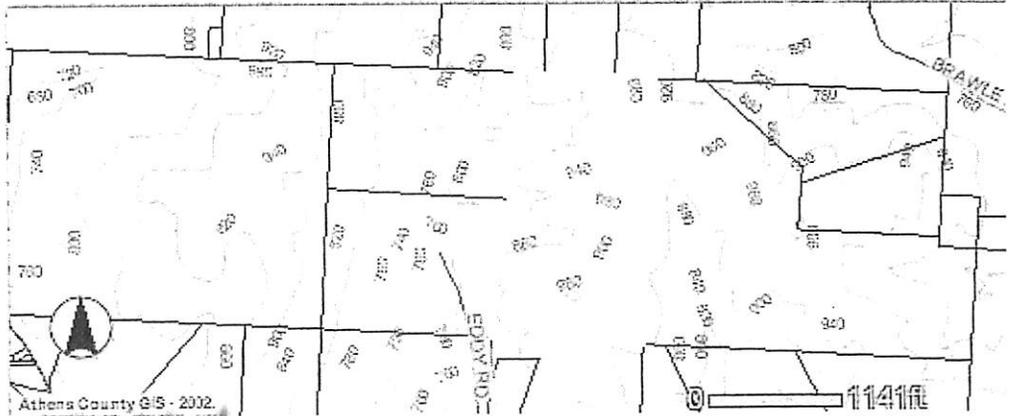
Parcel ID

House Address

## Layers

Visible

- Roads
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- 100 Yr Flood
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Select  
Parcels

Scale 1: 19337



Help

### Parcel Attributes

Parcel ID	C0100100390.00
Parcel Address	MCDANIEL DR
Owner	LAVELLE TIMOTHY COLIN DDS
Owner Address	P O B 5518LEY RD, ATHENS OH 45701
Legal Description	SEC 14-15 FRA 1 65.50A
Acresage	65.50
Sale Date	5/6/1999

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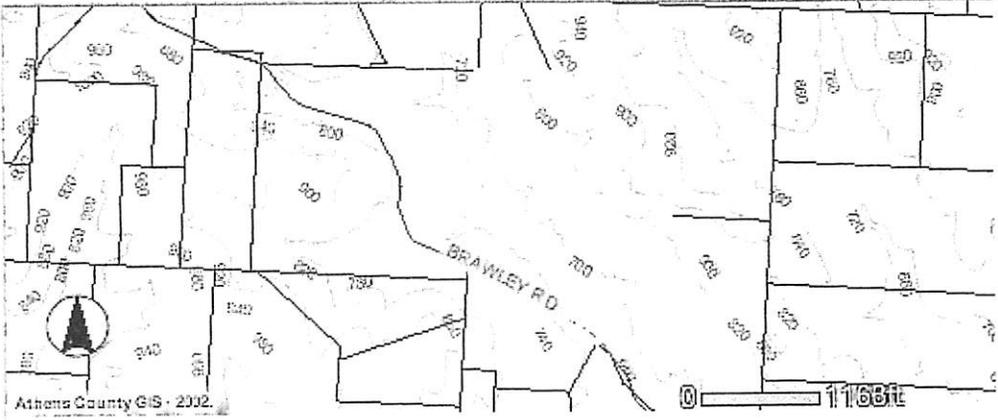
Parcel ID

House Address

### Layers

Visible

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Select  
Parcels

Scale 1: 22336



Help

### Parcel Attributes

[Back](#)

Parcel ID	C0100100392.00
Parcel Address	BRAWLEY RD
Owner	LAVELLE TIMOTHY C
Owner Address	P O BOX 5518, ATHENS OH 45701
Legal Description	SEC 9 FRA 2 65.850 AC
Acreage	65.85

# Athens County Geographic Information System



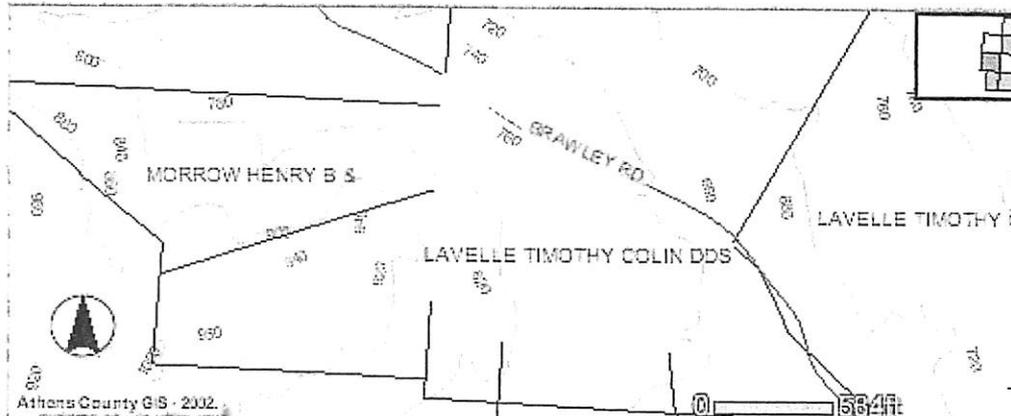
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## Search Options

Owner Name

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House Address



## Layers

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**Owner Name** Scale 1: 10269



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### Parcel Attributes

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Parcel ID	C0100100392.01
Parcel Address	BRAWLEY RD
Owner	LAVELLE TIMOTHY COLIN DDS
Owner Address	P O B 5518, ATHENS OH 45701
Legal Description	SEC 9 FRA 2 20.150 AC
Acresage	20.15

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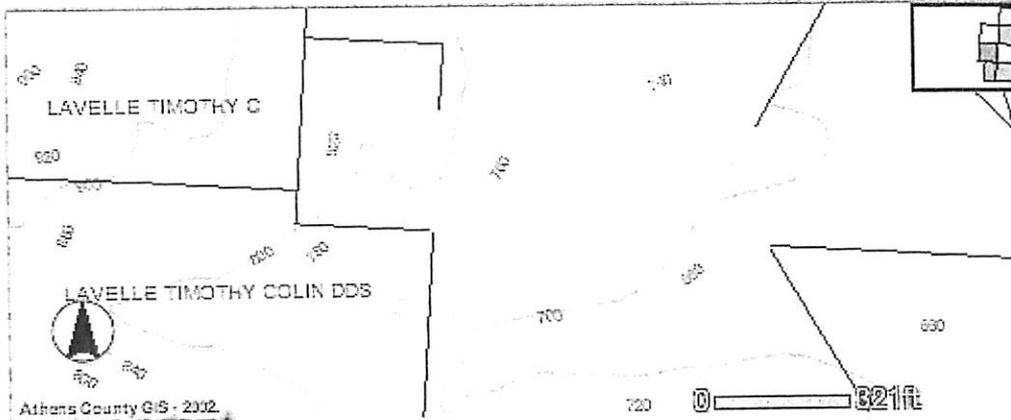
## Search Options

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## Layers

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Zoom  
Out

Scale 1: 5439



Help

### Parcel Attributes

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Parcel ID	C0100100393.00
Parcel Address	BRAWLEY RD
Owner	LAVELLE TIMOTHY COLIN DDS
Owner Address	P O B 5518, ATHENS OH 45701
Legal Description	13-06-00 SEC 9 FRA 2 10.000A
Acreage	10.00

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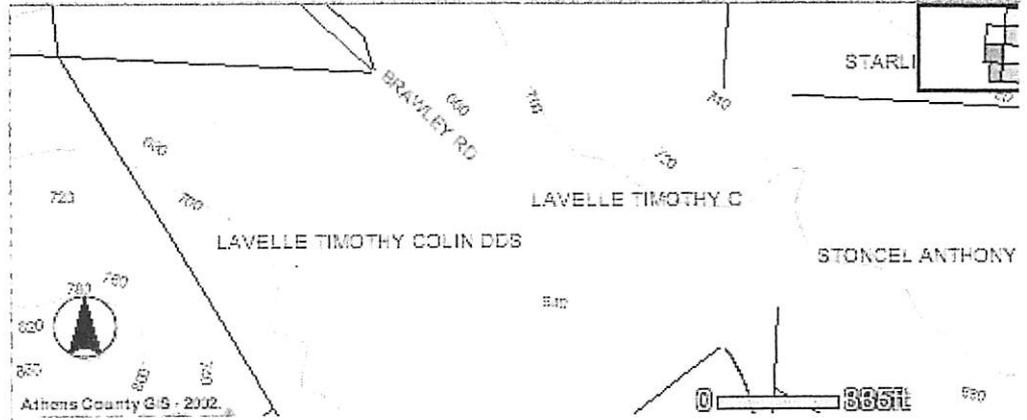
Parcel ID

House Address

## Layers

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Select **Scale 1: 6334**  
Parcels



Help

### Parcel Attributes

Parcel ID	C0100100394.00
Parcel Address	S R 550
Owner	LAVELLE TIMOTHY C
Owner Address	207 COLUMBUS ROAD SUITE A, ATHENS OH 45701
Legal Description	SEC 8 8.900A 8.900 AC FOREST LAND
Acreage	8.90
Base Date	3/22/2005

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Select  
Parcels

Scale 1: 12638



Help

### Parcel Attributes

Parcel ID	C0100100394.01
Parcel Address	S R 550
Owner	LAVELLE TIMOTHY COLIN DDS
Owner Address	P O B 5518, ATHENS OH 45701
Legal Description	SEC 8 31.100 AC
Acreage	31.10
Sale Date	5/6/1000



### Search Options

Owner Name

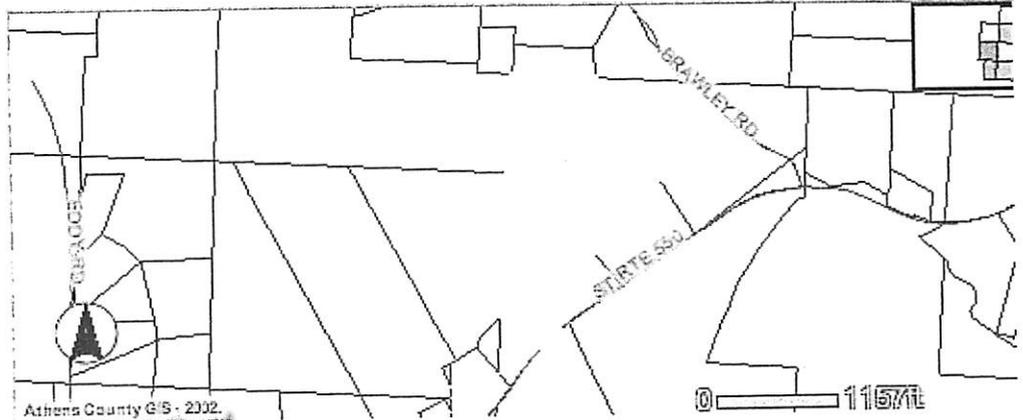
Parcel ID

House Address

### Layers

Visible

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Select  
Parcels

Scale 1: 21859



Help

### Parcel Attributes

Parcel ID	C0100100395.00
Parcel Address	S R 550
Owner	LAVELLE TIMOTHY COLIN DDS
Owner Address	P O B 5518, ATHENS OH 45701
Legal Description	SEC 8 54.02A
Acresage	54.02
Sale Date	5/6/1006

# Athens County Geographic Information System



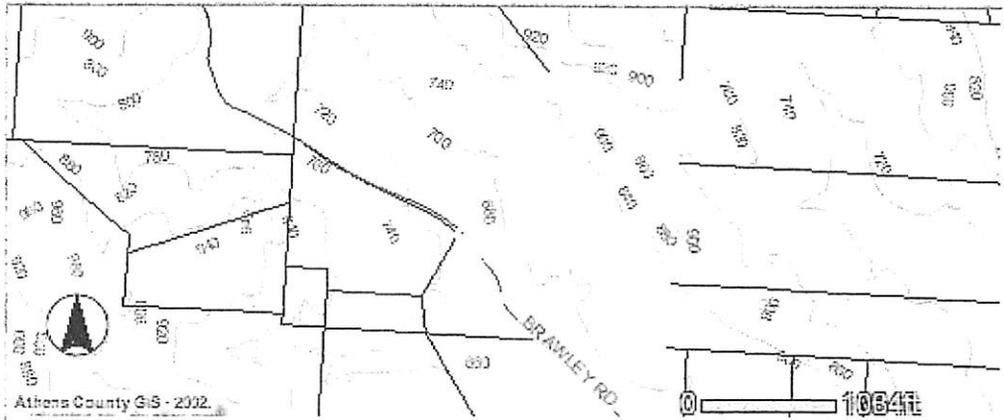
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### Search Options

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Select  
Parcels

Scale 1: 17524



Help

### Parcel Attributes

Parcel ID	C0100100397.00
Parcel Address	14000BRAWLEY RD
Owner	LAVELLE TIMOTHY C
Owner Address	207 COLUMBUS ROAD SUITE A, ATHENS OH 45701
Legal Description	SEC 9 FRA 2 65.64A 50 AC FOREST LAND
Acreage	65.64
Sale Date	2/22/2005

# Athens County Geographic Information System



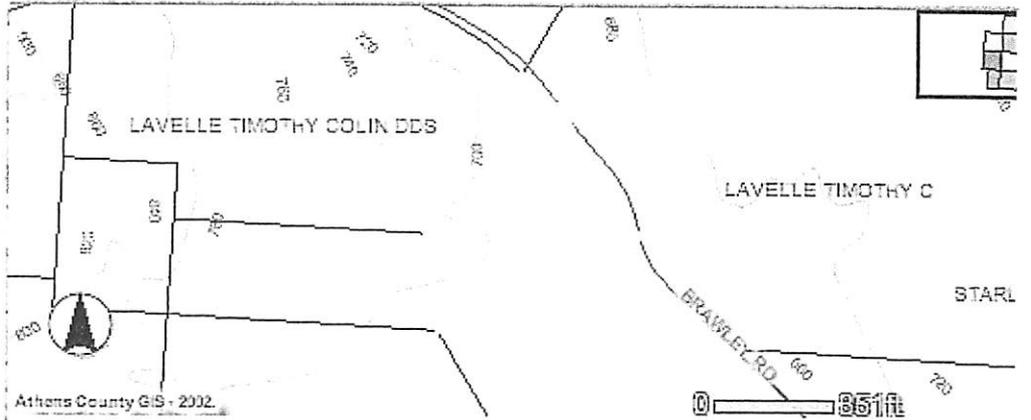
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## Search Options

Owner Name

Parcel ID

House Address



## Layers

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Zoom Out Scale 1: 6758



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Parcel ID	C0100100397.01
Parcel Address	BRAWLEY RD
Owner	LAVELLE TIMOTHY COLIN DDS
Owner Address	P O B 5518, ATHENS OH 45701
Legal Description	SEC 9 FRA 2 8.36 AC
Acreage	8.36

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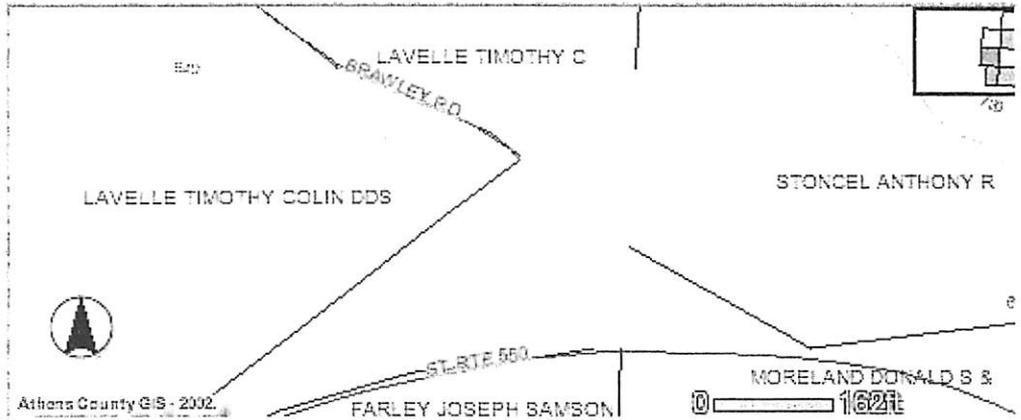
[Parcel ID](#)

[House Address](#)

## Layers

Visible

- Roads
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Zoom  
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Scale 1: 3121



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### Parcel Attributes

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Parcel ID	C0100100398.00
Parcel Address	S R 550
Owner	LAVELLE TIMOTHY C
Owner Address	207 COLUMBUS ROAD SUITE A, ATHENS OH 45701
Legal Description	SEC 8 .560A
Acresage	.56



### Search Options

Owner Name

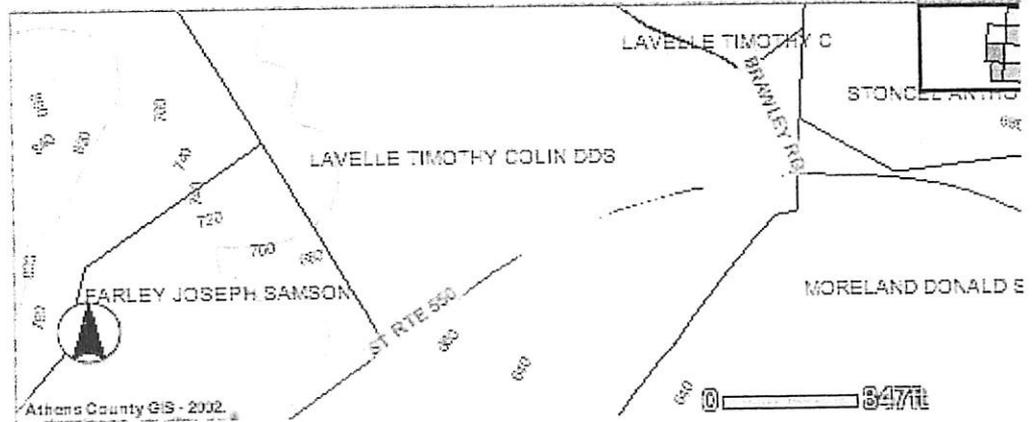
Parcel ID

House Address

### Layers

Visible

- Roads
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Owner Name Scale 1: 5891



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Parcel ID	C0100100398.01
Parcel Address	S R 550
Owner	LAVELLE TIMOTHY COLIN DDS
Owner Address	P O B 5518, ATHENS OH 45701
Legal Description	SEC 8 2.140 AC
Acreage	2.14

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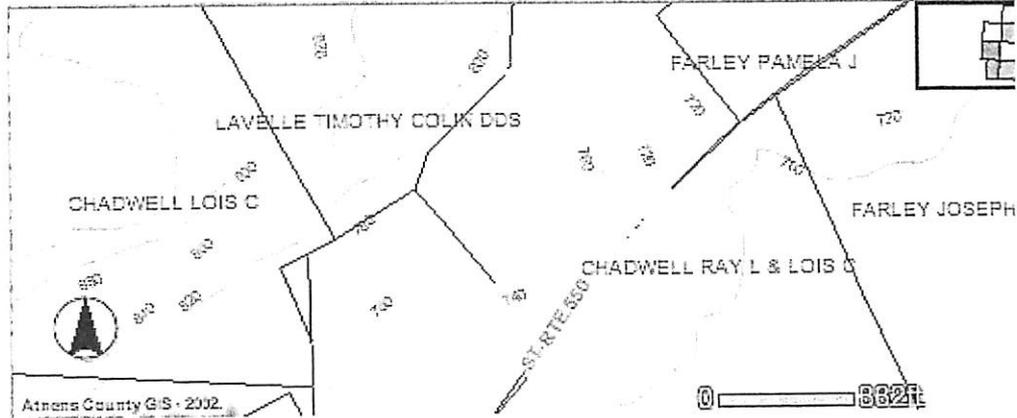
[Parcel ID](#)

[House Address](#)

### Layers

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**Owner Name**

Scale 1: 5640



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### Parcel Attributes

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Parcel ID	C0100100399.00
Parcel Address	S R 550
Owner	LAVELLE TIMOTHY COLIN DDS
Owner Address	P O B 5518, ATHENS OH 45701
Legal Description	13-06-00 SEC 8 2.560A
Acres	2.56

# Athens County Geographic Information System



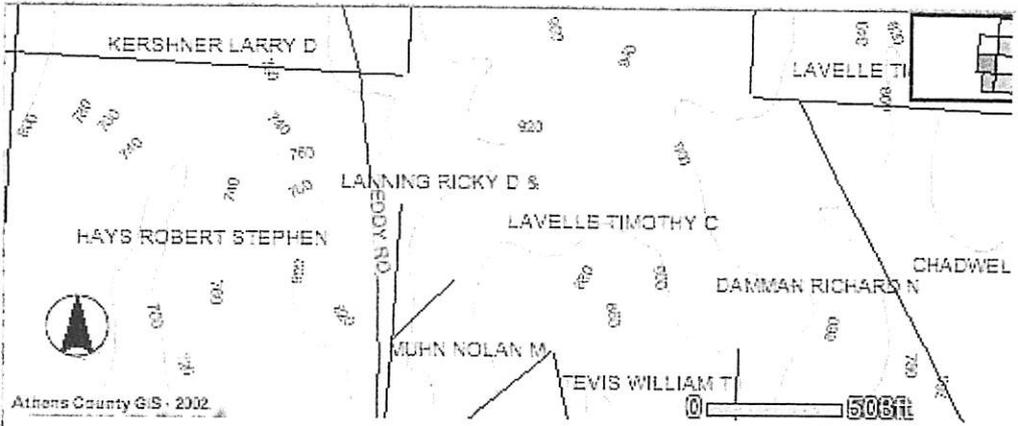
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## Search Options

Owner Name

Parcel ID

House Address



## Layers

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Select  
Parcels

Scale 1: 8527



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### Parcel Attributes

Parcel ID	C0100100567.00
Parcel Address	EDDY RD
Owner	LAVELLE TIMOTHY C
Owner Address	P O BOX 5518, ATHENS OH 45701
Legal Description	SEC 14 FRA 7 27.290A
Acresage	27.29
Sale Price	0/21/1000

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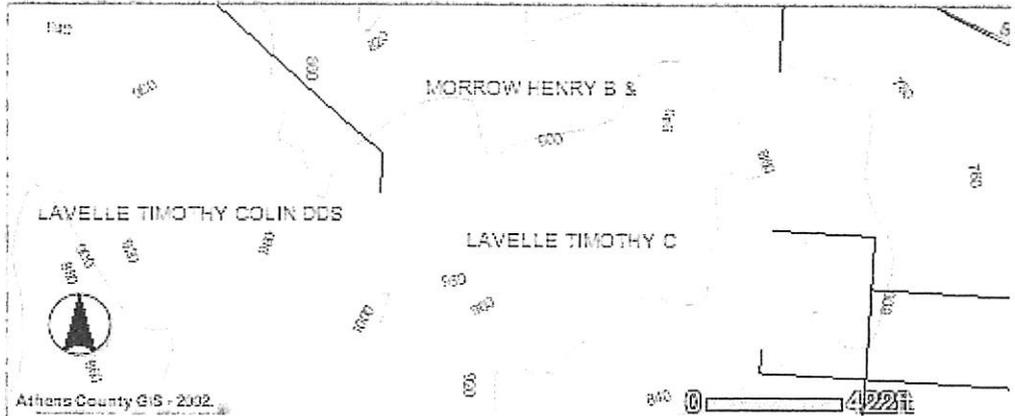
Parcel ID

House Address

## Layers

Visible

- Roads
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Select Scale 1: 7157  
Parcels



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### Parcel Attributes

Parcel ID	C0100100400.01
Parcel Address	BRAWLEY RD
Owner	LAVELLE TIMOTHY C
Owner Address	P O B 5518, ATHENS OH 45701
Legal Description	SEC 15 FRA 1 17.68 AC
Acres	17.68
Parcel Date	7/16/1002

## **GENERAL PROPERTY DESCRIPTION**

Athens County is located in the unglaciated hill country of southeastern Ohio. Slope and erosion hazard is the major land use limitations. Seasonal wetness, droughtiness, flood hazard, and the moderately slow to very slow permeability of some soils also limit land use.

Athens County is in the central hardwood forest region. Major forest types include Appalachian hardwoods, bottomland hardwoods, oak-hickory, successional, Virginia pine, and white pine plantations. Most of the woodland in Athens County is in areas of steep and very steep terrain. This terrain is well suited to trees. Pulp and lumber are important forest products in Athens County.

## **THREATENED AND ENDANGERED SPECIES**

Athens County does have habitat suited to the Indiana bat and American burying beetle and timber rattlesnake. The U.S. Fish and Wildlife Service have listed these as endangered species.

No specific threatened or endangered species were noted on this forest land. Some threatened or endangered species that may be found in southern Ohio include the Timber Rattlesnake, Indiana Bat and American Burying Beetle. Threatened and endangered species have certain habitat requirements. Habitat requirements for threatened or endangered species may or may not be found on this forest land. Specific information on threatened or endangered species may be obtained by contacting the Ohio Department of Natural Resources Division of Natural Areas and Preserves directly to access the Natural Heritage Database.

## **SOILS INFORMATION**

A detailed soils map of the property is included in the Forest Management Plan. Map symbols identify the soil names found in each forestland management unit on the property. One may use the soils map and soil survey to obtain a better understanding of the soils and how they affect the attainment of landowner management objectives. Specific issues addressed include WOODLAND MANAGEMENT AND PRODUCTIVITY, WINDBREAKS AND ENVIRONMENTAL PLANTINGS, RECREATIONAL DEVELOPMENT, WILDLIFE HABITAT, BUILDING SITE DEVELOPMENT, and WATER MANAGEMENT. A complete copy of the *SOIL SURVEY OF ATHENS COUNTY, OHIO* may be obtained from the Athens Soil and Water Conservation District (SWCD). More detailed interpretation of soils on this forestland may also be obtained from the SWCD. The address and telephone number for the Athens SWCD is listed in the Resource Contact Directory included in the plan.

## SITE INDEX

Factors that affect growth are: site quality, stand age, stand stocking, environment, species composition and stand density. Age and site quality are the primary variables used to estimate growth and yield. Site index for the eastern United States has been defined as the average height reached by the tallest trees in even-aged stands at 50 years of age. Site index is estimated directly by measuring heights and ages of sample trees and then using a site index curve or table for the appropriate species. Indirect measurements of site index can be obtained from soil surveys and soil site relationships.

Yield per acre in board feet, International rule, 1/8 inch saw kerf, to a 5-inch top inside bark, including all trees having at least one 16-foot log.

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Total age (year)	Yield per acre by site index-				
	40	50	60	70	80
15	0	0	0	0	50
20	0	0	0	150	350
25	0	0	300	700	1,450
30	100	350	850	1,750	3,350
35	300	800	1,900	3,550	5,950
40	600	1,400	3,200	5,500	8,600
45	950	2,250	4,700	7,650	11,200
50	1,400	3,250	6,300	9,750	13,750
55	2,000	4,350	8,000	11,850	16,250
60	2,700	5,600	9,700	13,900	18,600
65	3,450	6,900	11,300	15,800	20,900
70	4,250	8,150	12,800	17,700	23,100
75	5,100	9,300	14,200	19,500	25,200
80	5,900	10,450	15,650	21,200	27,250
85	6,750	11,550	17,000	22,900	29,150
90	7,600	12,600	18,300	24,500	30,950
95	8,350	13,600	19,600	26,100	32,700
100	9,200	14,700	20,900	27,650	34,400

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<sup>1</sup>Yield, Stand & Volume Tables for even-aged upland oak forests.  
G. Luther Schnur, USDA Technical Bulletin No. 560, April 1937.

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## DEFINATION OF FOREST STAND TYPES

### **Appalachian Hardwoods Forest Type**

Appalachian hardwoods are commonly known as cove hardwoods. This type is found in coves and on north and east facing slopes in Ohio. This type extends eastward and southward throughout the Appalachians. Stands are characterized by a large number of dominant and subdominant species and by the great diversity of their mixture. The species and their proportions vary considerably because of differing past treatments or natural stand disturbances on sites of different quality, aspect, elevation, and latitude.

Species composition is typically a mixture that may contain 20 or more commercial species. Tree species characteristic of the Appalachian hardwoods are yellow-poplar, northern red oak, sugar and red maples, white oak, American beech, white ash, American basswood, black cherry, aspen, hickories, yellow buckeye, and black locust.

Plants commonly found in the understory include summer-grape, greenbrier, spicebush, flowering dogwood, serviceberry, witch-hazel, viburnum, and hawthorn. Herbaceous plants may include figwort, aster, violet, short-husked grass, trillium, club-moss, black snakeroot, Indian turnip, wood sorrel, and fern.

Since the tolerance to shade varies widely amongst the species in this type, the silvicultural system used to harvest trees can lead to changes in the proportions of the species represented in the stand. The variety of species and favorable reproductive mechanisms involved results in abundant reproduction following any system of cutting disturbance. This system discriminates against the more light-demanding species. Selection cutting reduces the mixed character of the original stand to a few shade-tolerant species, predominantly sugar maple, red maple and beech.

Group selection cutting is a good means of reproducing desirable species and of providing habitat for wildlife. Openings as small as a quarter of an acre result in reproduction of a wide range of species, including shade intolerant ones.

Clearcutting provides for the maximum reproduction of desirable light demanding species. Many of our present stands are the result of this system of cutting. This method is desirable for forest diversity and wildlife. However, in scenically sensitive areas, aesthetic objections to this method of cutting may limit its use to small areas or not at all.

### **Oak-Hickory Forest Cover Type**

Tree species characteristic of the oak-hickory forest type include northern red oak, black oak, scarlet oak, white oak, chestnut oak and all hickories. The proportions of each species may vary greatly. Associated tree species include yellow-poplar, red maple, black gum, persimmon, black walnut, pitch pine, Virginia pine, black locust, dogwood and sassafras.

Any silvicultural system can maintain an oak-hickory forest cover type providing oak and hickory seedlings are present prior to a regeneration method. If the silvicultural system used creates only small openings or no openings in the canopy, this type will gradually convert to shade tolerant species such as hard

maple, red maple and beech. Systems that create larger openings or completely remove the overstory within a short period of time will favor the oak-hickory and Appalachian hardwoods forest types.

Harvesting single trees as they mature is not a suitable silvicultural system for managing oaks. Although some oak reproduction will become established and persist for long periods under selection cutting, it will not survive and develop satisfactorily.

Group selection cutting is a good system for regenerating light demanding species. Group selection cuttings should be at least one-half acre to one acre in size. If this system is used over a large area it will create many small stands of varying age classes. At some point, group selection cutting and clear cutting blend into each other in appearance and silvicultural response.

Where adequate oak-hickory advance reproduction is present, clearcut areas, will reproduce rapid growing new stands containing oaks, hickories, other light-demanding species, and also shade-tolerant species. The better the site quality, the greater the diversity of the associated species.

Plants, commonly found in the understory include dogwood, sassafras, sourwood, serviceberry, redbud, American hornbeam, eastern hop-hornbeam, witch-hazel, hazel, vaccinium, viburnum, spicebush, mountain-laurel, rhododendron, wild grape, Virginia creeper, green brier, and poison ivy. Herbaceous plants may include tick-trefoil, Solomon's-seal, May apple, dittany, trillium black snakeroot, pussy's-toes, wild ginger, bellwort, aster, cinquefoil, and goldenrod. The oak-hickory forest cover type is found throughout Ohio.

## Riparian Forest Type

Forests growing along streams, rivers and lakes protect water quality. The timber harvested from these forests can also provide income for a landowner. It's important that a forested area be maintained next to water bodies and that forest management decisions in this area consider impacts on water quality.

Forests protect water quality through bank stabilization, shading of the water, taking up nutrients and filtering pollutants. The extensive network of tree roots holds the soil of the bank in place, reducing erosion and keeping the stream banks and shorelines stable. The shade helps reduce water temperatures and maintain high oxygen levels that benefit many kinds of aquatic wildlife. Fallen leaves and other organic debris deposited in the water provide "food energy" to aquatic life. Many nutrients, sediment and pollutants contained in storm runoff are filtered out before they reach the water and are held in the leaf and humus layer on the forest floor. The nutrients are used for tree growth while pollutants are broken down into harmless compounds. Additionally, porous soils of the forest floor readily allow water to infiltrate, increasing groundwater recharge and reducing the potential for flash floods.

Trees can be harvested from a waterside forest area while preserving water quality. Several rules of thumb should be observed:

- *If a tree casts shade on the water, leave it.* It probably has greater value standing than being sold as a log. Of these water-shading trees,

only those that are at great risk of falling into the water should be removed.

- *Maintain at least a 50-foot wide strip of waterside forest area.* Remember, special streams deserve special considerations; a filter strip of 120 feet or more is desirable next to national and state scenic rivers and other water bodies with special values.
- *Selective harvest is the only harvest method that should be used in the waterside forest area.* This method chooses individual trees for harvest based upon their current health, future health and future contribution to the forest. Enough trees should be retained in the waterside forest to maintain its water quality functions.
- *Avoid creating roads for equipment in the waterside forest area or running equipment in a streambed.* Harvested trees should be cabled and winched to minimize the number of roads needed and the disturbance to the site. Heavy equipment can compact the soil and expose it to erosion, reducing the water quality functions of the waterside forest area. Equipment in the stream bed adds mud to the water and destroys wildlife habitat.
- *If the forest management chemicals are used, carefully follow label instructions.* Make sure that the chemical is not sprayed on the water. Most of all make sure the chemical is labeled for the intended use.

## **Virginia Pine Type**

Virginia pine is an opportunistic tree and does a good job of reforesting abandoned agricultural fields. On average sites, well-stocked stands can have as many as 1,600 stems per acre at 20 years of age. The number of stems per acre drops to 200 when the stand approaches 70 years of age.

Virginia pine is a transitional type and is eventually replaced by more tolerant hardwood species. It is a pioneer species, coming in after fire, and on eroded areas or abandoned old fields. Virginia pine cannot become established under the shade of an existing stand, so hardwoods invade the understory. Understory species may include dogwood and sassafras. Ground cover often found associated with Virginia pine is clubmoss (*Lycopodium*) which indicates a better site index for the Virginia pine type.

Virginia pine often grows in pure stands but other species can be found growing with this type. Species that commonly grow with Virginia pine are white oak, red oak, red maple, hickories, blackgum, black oak, persimmon and post oak.

## Non-Forest Cover Types

Non-forested openings are simply areas where the land is not supporting a forest community. A good rule of thumb to determine if an opening is truly a non-forested opening is to consider how long it has been since a forest covered the area and how long will it be until a forest is present again. If this spans more than 10 years, then you can consider the area a non-forested opening.

**Fields and Meadows** - These are openings that have very few trees or little water in them. They include fields, pastures, abandoned orchards, meadows, and spill ways.

**Ponds and Bogs** - These include all openings that are dominated by water and have very few trees around them. Marshes, streams, ponds, lakes, bogs, rivers, and reservoirs are included in this category.

**Other Non-forested Openings** - These are openings that are frequently used and changed by people and have very few trees in them. The opening could have houses or other buildings, playgrounds, gravel pits, utility right of ways, parking areas or roads, or spoil pits in them.

Id	Field_Numb	Forest_Sta	Acreage
2	1	App_Hwds Pulpwood 40	38.48
3	2	App_Hwds poles/pulpwood 20	7.21
1	3	App_Hwds Small Sawtimber 60	113.12
3	4	App_Hwds poles/pulpwood 20	16.64
8	5	App_Hwds Sawtimber 80	11.56
1	6	App Hwds Small Sawtimber 60	44.01
5	7	Food Plot - orchard	12.4
2	8	Oak_Hickory Samll Sawtimber 50	15.08
5	9	Food Plot mowed field	4.24
6	10	Pond	0.6
4	11	Natural Sucession area 20 yrs	32.13
3	12	App_Hwds pulpwood 30	24.27
6	15	Pond	0.1
7	16	Residential area	8.73
6	17	Pond	0.05
5	18	Food plot mowed field	10.67
3	19	App_Hwds poles/pulpwood 30	3.05
0	20	White Pine 30 yrs old pruned	2.8
5	21	Food plot Rotation grass/sm grain	2.21
0	22	Red_White Pine 40 yrs old	2.14
5	23	Food Plot Rotation -grass/sm grain	3.39
5	24	Food Plot Rotation grass/small grain	4.89
8	25	Oak_Hickory Sawtimber - old pastured woods	9.75
5	26	Food Plot - mowed - to be developed	7.04
5	27	Food Plot Rotational grass/ small grain	7.77
1	28	App_Hwds Small Sawtimber 60	72.03
7	29	Residence	1.03
0	30	Red_White Pine 60-70 years old	1.42
5	31	Food plot mixture of grasses	8.38
2	32	Riparian Forest area pulpwood 30	29.16
0	33	White Pine 40 yrs old	0.8

# STAND IDENTIFICATION & MGT. SUGGESTIONS

STAND  
NO.

DESCRIPTION

1. **38.48 ac** -App. Hwds. Pulpwood/Small Sawtimber Stand ( 6'-16"dbh) 40-50 yrs old. Stand is heavily stocked with Oaks and Sugar Maple. Fully stocked, medium productive site. Currently an active site for syrup production. Grapevines should be removed to the extent that they will not be detrimental to the overall forest health. This means they need cut from the trees that will comprise the forest canopy.
2. **7.21 ac** -Hardwood Stand 20-30 yr old pulpwood sized ( 6'-12"dbh) stand composed of Cherry, Aspen, and Maple. All pioneer species. This is a hard stand to manage because of the species present and ridge top location. Should use an even aged mgt. plan ie: clearcuts to regenerate this area.
3. **113.12 ac** - Sm Sawtimber Stand This stand is classified as a young sawtimber stand because of the numerous 12"-19"dbh trees present. Because of the site and aspect of the stand, this is a 50-60 year old stand that is just starting to mature. Good site to grow quality trees. Some B. Cherry present, but heavily stocked with Sugar Maple. Currently an active site for syrup production. Grapevines should be removed to the extent that they will not be detrimental to the overall forest health. This means they need cut from the trees that will comprise the forest canopy.
4. **16.64 ac** - App. Hwd. Pulpwood Stand Some Chestnut Oak and other dry site species, such as Scarlet Oak, Hickory spp., as well as Maple and B. Cherry. Some B. Locust and Dogwood present, but are dying out.
5. **11.56 ac** - App. Hwd Type Sawtimber Stand. Cove setting, lower slope site with good moisture and soils. Mature White Oak, Red Oak, Poplar with some H. Maple and Beech. Best quality of the mature trees on this ownership. Rock formations are visible and ascetics should be emphasized.
6. **44.01 ac** - App. Hwd Type, Small Sawtimber Stand average DBH is in the 12-16" range with some scattered larger trees present. Hollows contain better stocking and quality than the ridge top area. This area was heavily harvested in the 1970's and is beginning to recover into a well stocked stand.
7. **12.4 ac** -old apple orchard area. provides bugging and browse area for wildlife species such as White Tail Deer, Wild Turkey and Ruffed Grouse.
8. **15.08 ac** - Small Sawtimber Stand, mainly Oak species. Black Oak, Chestnut & White Oaks, Am. Beech, Sugar Maple. Old stand, 50-60yrs old. Will need attention in the near future or will begin to decline.

21. **2.21 ac-** mowed field-rotational grasses/ small grain food plot area for a variety of wildlife species
22. **2.14 ac** – White Pine Plantation. This patch of White Pine is 40+ yrs old and planted on the slope facing St Rt 550. Stand is growing well and does not need much attention at this time. TSI work to remove dead and dying trees as well as thin overstocked areas.
23. **3.39 ac-** mowed field-rotational grasses/ small grain food plot area for a variety of wildlife species - located close to ST RT. 550
24. **4.89 ac-** mowed field-rotational grasses/ small grain food plot area for a variety of wildlife species – Possible tree planting along edge to provide a visual buffer area
25. **9.75 ac** - Oak Type Sawtimber Stand 80-90 years old mixed Hickory, Red, Black, White and Chestnut Oaks. Dry, west facing slope site, low productivity area but trees appear to be healthy, just slow growth is to be anticipated. Old pasture area
26. **7.04 ac** – Semi-forested area - open field and roadway going to residence. Again, provides bugging and browse area for wildlife species such as White Tail Deer, Wild Turkey and Ruffed Grouse.
27. **7.77 ac-** mowed field-rotational grasses/ small grain food plot area for a variety of wildlife species – mid slope location – walnut tree planted along edge provide hard mass for wildlife, old garden area location
28. **72.03 ac** – Small Sawtimber Stand This stand is classified as a young sawtimber stand because of the numerous 12"-19"dbh trees present. Because of the site and aspect of the stand, this is a 60+ year old stand that is just starting to mature. Scattered large 24"+ DBH trees are located through out this stand. Good site to grow quality trees. Some B. Cherry present, but heavily stocked with Sugar Maple.  
This Stand is currently an active site for syrup production. Grapevines should be removed to the extent that they will not be detrimental to the overall forest health. This means they need cut from the trees that will comprise the forest canopy.
29. **1.03 ac** –Residential Area – House, garage and mowed yard area
30. **1.42 ac** – Red / White Pine Plantation. This patch of Red / White Pine is 60+ yrs old and planted on the slope above Brawley Hollow drainage. The Red Pine is planted on the upper side and the White Pine, on the lower portion. Stand is growing well and does not need any attention at this time. The Red Pine have reached maturity and beginning to show natural mortality.

## **ADDITIONAL RECOMMENDATIONS FOR THIS FORESTLAND**

**Consider locating and clearly marking all property lines.** Having property lines clearly marked will help reduce the possibility of accidental trespass onto one's property by uninvited hunters, timber cutters and others. The possibility of becoming lost and wandering off of one's property will be reduced. It will also help ensure that one's forestland management activities are confined to one's own forestland and are not carried over onto the neighbor's property.

One method of locating property lines is to follow old fence lines or other known landmarks and identify the property lines from those findings. A legal description of the property and a hand compass are useful with this method.

A land survey is another method of locating property corners and property lines. A list of registered, licensed surveyors may be found at the County Engineer's office or in the yellow pages of the telephone book.

Once the property lines are located they should be clearly marked. One method of marking property lines is to blaze trees along the lines. Use an ax to blaze, or chop off, the outer bark of trees along the property line. Make a blaze at about chest height or higher and about the size of a hand. Brush a brightly colored, durable paint onto the blaze mark. Blaze marks should be no farther apart than one chain (66 feet), but close enough so that one may see from one blaze to another when the leaves are on in the summer. Depending on conditions, this type of mark should last for several years.

Another method of marking property lines is to drive steel fence posts into the ground along the property lines. Use six-foot-long or longer steel fence posts and drive them into the ground about two feet. The posts should be placed no farther apart than one chain (66 feet). The top foot or so of the post may be painted with a durable, brightly colored paint so that the line may be easily seen from a distance.

***Your lines are well marked with paint and signs. Maintain your lines to reduce trespass.***

**Continue maintaining existing trails and roads and adding new ones** throughout the property. Better trail management will help reach goals relating to recreation and wildlife management. Hiking and walking on trails is much easier and more enjoyable than having to fight through the brush. Wildlife use trails for travel and grazing. In addition, ruffed grouse and wild turkey use trails as dusting areas and as places to catch insects ("bugging"). Hawks and owls watch trails in hopes of catching prey moving along the trails.

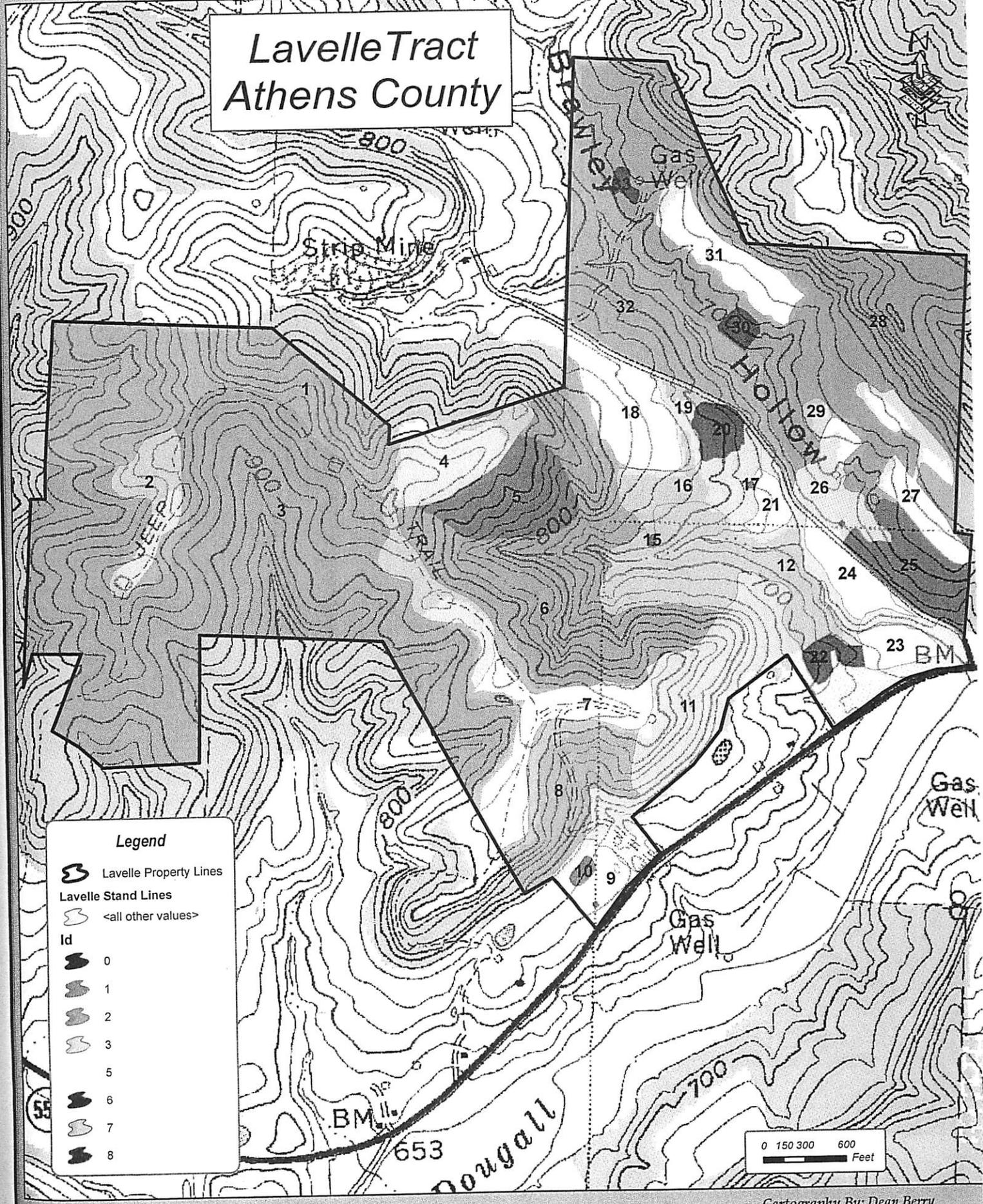
Better access through trails will aid in firewood cutting and other forestland management activities such as wildlife habitat enhancement and timber stand improvement.

Throughout the duration of this management plan, as time permits, remove or girdle undesirable / unhealthy trees to be used as firewood and wildlife brush pile construction. This will in effect be used as a Crop Tree release.

**PROPOSED FIFTEEN YEAR ACTIVITY SCHEDULE**

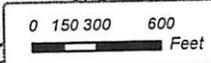
<b>Stand #</b>	<b>Year</b>	<b>Activity</b>	<b>Acres</b>
3pt,6pt	2008 – 09	T.S.I., Grape Vine Control	20
28pt	2010-11	T.S.I., Grape Vine Control	20
5,12pt	2012 - 13	T.S.I., Grape Vine Control	20
1,28pt	2014 - 15	T.S.I. Crop Tree Release	25
6,28pt	2016-17	T.S.I. Crop Tree Release	25
All Stands	All Years	BMP's on Access Roads and maintain trails to prevent erosion	n/a
3pt	2018 - 19	T.S.I. Grape Vine Control	20
7,24,23,26,12	All years	Underplant Hemlock Trees in shaded areas, plant conifers, fruit trees	5+
12, 32	2020-2022	T.S.I., Grape Vine Control, Crop Tree release	20
1,3,5,6,28	All Years	Crop Tree Release for Maple Syrup Production.	20

# Lavelle Tract Athens County



### Legend

-  Lavelle Property Lines
-  Lavelle Stand Lines
-  <all other values>
- Id**
-  0
-  1
-  2
-  3
-  5
-  6
-  7
-  8



# Lavelle Tract Athens County

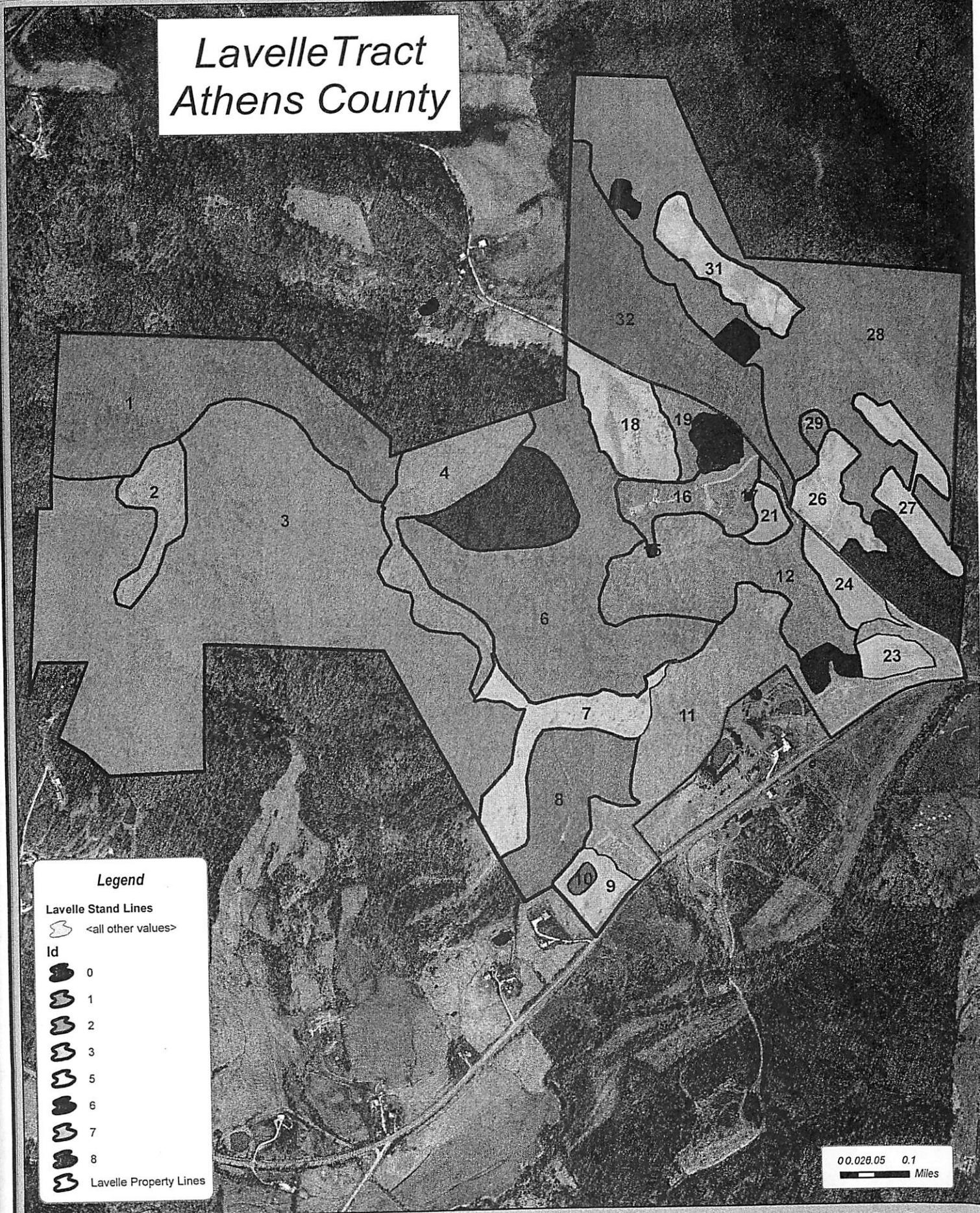
**Legend**

Lavelle Stand Lines  
 <all other values>

Id

-  0
-  1
-  2
-  3
-  4
-  5
-  6
-  7
-  8

 Lavelle Property Lines



0.02605 0.1  
 Miles