# Managing Your Woodlands: A template for your plans for the future

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Date of Original Plan CompletionM Please note: Informal updates to the plan these notes throughout the management	n can be made with handwritten notes. Be sure to include a date and initial			







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This template should be used in association with the landowner and the forester guides which include detailed instructions on how to correctly complete the template to develop a management plan that will meet the requirements for the American Tree Farm System (ATFS), Natural Resources Conservation Service (NRCS) and the US Forest Service. Please refer to the guide when working with your forester or natural resource professional to develop your plan.

This template was developed by the US Forest Service, Natural Resources Conservation Service (NRCS), and the American Forest Foundation's American Tree Farm System (ATFS) using information from the following state joint Forest Stewardship, ATFS and NRCS templates:

- Mississippi Forest Stewardship Management Plan developed by the Mississippi Stewardship Forest, Mississippi Forestry Commission and the US Forest Service
- Missouri Common Forest Plan Format developed by the Missouri Department of Conservation and NRCS
- Montana Forest Stewardship Plan/Tree Farm Plan developed by the Montana Forest Stewardship Program, Montana Tree Farm Program, Montana State University Extension, Montana DNRC, US Forest Service and NRCS
- Oregon Forest Stewardship Plan Template develop by Oregon State University Forestry Extension Program

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# **Property Description**

Legal property description This forest is dispersed generally along the shared incorporated lines the cities of Stow, Hudson, and Boston Township.
The farm is part of the headwaters for two watersheds; the Brandywine and the Mudbrook - both are in Northern Summit County
Nearest city or town Hudson, Stow, Boston Township, Ohio
Tax Parcel Number (optional)
FSA Farm and Tract Numbers (if applicable) 77-742
GPS coordinates (optional)
Total ownership acreage 99.21 Total forested acreage 96.21
Total acreage covered by this plan96.21
Number of unique stands of trees9
Do you reside on the property? Yes No
Basic topography (estimate percent of total acreage that is)
Complex topography (many steep ravines and aspects)
Simple topography (few ravines and changes of aspect)
Percent of land that is Flat (<5% grade) 97 Gentle Slope (6 to 20% grade) 2
Steep Slope (> 21% grade)
Road Conditions (check):
Fair (at least 25%) Poor (less than 10%)
Estimated improved road length (bulldozed with graveled surface) 800 feet
Estimated unimproved road length (bulldozed with but original soil/bedrock)none
Which watershed is the property located in (include appropriate watershed unit for your state):  Brandywine and Mudbrook

## **Property History**

We started Brown Farms in 1986. An area of approximately 100 acres, the farm is a collection of 9 woodland stands with lakes and streams dispersed generally along the shared incorporated lines of the cities of Stow, Hudson, and Boston Township. Our stands are all unique to each other. Our southern most woodlot, "The Creek Runs Through It" is the last 400 feet of the Meadowbrook Creek at its terminal junction with Meadowbrook Lake in the city of Stow. During the 1990's, Brown Farms cleaned the debri that had been dumped as trash as the site was once a homestead at the creek's edge. Our family considers this to be a Special Site - a place to be preserved for its natural beauty and function.

In 1994, we purchased our "McDonald's Farm", a vacant open field from the McDonald's Corp. This property, called sublot No. 3, includes the storm water basin for the McDonald's restaurant and the Valvoline service station. We hope to demonstrate the advantages of growing small plantations within the area of the storm water systems. None of the corporations do this and our thought is that they should.

Our northern most woodlot in the Mud Brook watershed includes a lake adjacent to Rt. 8 in the city of Hudson. In 2006, consulting firm Arcadis used this lake for their cover photo of the Mud Brook Watershed Study. Along with a picture of our lake, a caption read " Imagine the result ".

Over the years, Brown Farms has worked diligently to protect these headwaters.... detail is shown inside this management report.

## **Forest Management Goals**

To be fertilizer free.

Maintain and improve the productivity of these woodlands. Grow the tree species that are suited for the soil types present.

Grow tree species that will provide products for sale, per the requirements of the Current Agricultural Use Law.

Manage the property for all other opportunities that exist in a forest ecosystem including recreation, wildlife management, soil and water management, air quality management, and other compatible conservation uses.

Conserve the soil and water during forest management activities by maintaining practices that will prevent soil erosion.

Demonstrate new ways to use the forest as a component of urban landscape design. Use the forest to improve the aesthetics of the community.

Continue as an active member of the American Tree Farm System.

## **Forest Natural Resources Enhancement and Protection**

This section relates to the natural resource elements found **throughout the entire property**. Some of the treatments related to these resources may qualify for federal and state incentive programs. For this section, include appropriate activities and treatments in the Management Activity Schedule and Tracking table as well as on the map(s). Complete the Activity Schedule and draw and label the areas of management on the map if using this plan as part of an incentive program application. There is no need to repeat this information in the stand specific section.

For each resource element, consider:

- 1. What treatments/monitoring/protection are planned?
- 2. When will you implement treatments (season, year), follow-up activities, etc?
- 3. Where will the management take place: entire stand, part of a stand, acres?
- 4. Do you have applicable permits, professional assistance, and applications for the incentive programs?

## **Protect Special Sites & Social Considerations**

#### Special sites

As mentioned earlier in the History section, our "The Creek Runs Through It " farm is a Special Site. We want to restore this section of the Meadowbrook Creek.

The pond areas on our farm are also Special Sites. Our stand "The Lakes Forest at Seasons Road" has two ponds that we monitor for quality on a daily basis. These waters flow east and then south to Wyoga Lake in Stow. Beyond the water quality protection, these sites improve the aesthetics of the community; they offer a beautiful view for tens of thousands of motorists each day.

Each day, we will remove the litter from these sites. Also perform a daily inspection of all stand road frontages for damage and litter. It is critical to show the forest as a means of improving the quality of life.

The attached file of past actions should be used as a guide for future action required to protect these assets.

#### Adjacent stand or ownership concerns

History has shown that a regular patrol of the property lines is smart business. Some neighbors do bad things. Because Brown Farms has miles of property lines , we recommend adjusting the frequency of inspection somewhat to the current rate of incidents.

The dumping by Mr. Jura in Boston Township is a good example of a neighbor that should be monitored on a daily basis. Again, the attached file of past actions should be used as a guide for future action required to protect these assets. A review of the file shows the public agencies and departments that have helped to stop Mr. Jura's filling of wetland area.

#### Recreation

Our goals for the forest include many forms of recreation. Camping, Hunting, Hiking, Interacting with the wildlife, Fishing, and Food gathering are all included in the list of our forest activities. Improving the wildlife habitat will go a long way to making these activities more enjoyable. See the stand activities for these directions.

#### Access

Brown Farms has one gravel access road in excellent condition; we have replanted all of our skidder paths from past harvests.

## Air, Water, and Soil Protection

What goals do you have, or what steps will you take to conserve, protect and enhance your forest's air, water and soil resources?

#### Soil protection

We don't use heavy equipment except during harvesting; we prohibit all four wheeling.

At the extreme grades of "The Pine Plantation of Seasons Road", we have reseeded those areas where the soil was made bare. During construction of the interstate, the contractor's seed did not survive the drought conditions and a second seeding was required.

#### Roads

Roads are minimized.

#### Streams, wetlands, ponds, lakeshore

Daily inspections for all water features. We follow Best Practices for the protection of our stream banks and shore lines. The farm uses no fertilizer.

We have used the services of many public agencies to protect these natural resources; the files attached provide that detail.

#### **Effects of Natural Disasters**

Droughts are tough on the seedings. We generally recommend using gallon sized water jugs to dampen the first year plantings.

It seems that every year we get that late Spring snow that snaps pine branches. Fall trimming of the branches can help.

#### Rangeland Resources (if applicable)

#### (optional) Carbon sequestration

As mentioned earlier, "The McDonald's Farm " is purposely located at the drive thru lane where engines are running. We are promoting the notion that the forest be present in order to reduce the carbon foot print.

## Fish, Wildlife and Biodiversity

Describe the resources on your property and the activities you are planning to accommodate your goals.

#### Fish &Wildlife

We are planning to improve the wild life habitat throughout the farm. Given the decline in the turkey population and the theory that habitat loss is to blame, we will provide some disturbance at the forest floor. We can help feed the turkey and the deer by providing tall grass for feeding and some brush for cover.

After each hard rain, we need to clean the Meadowbrook Creek as a lot of trash flows down stream with the storm surge.

State and Federal threatened or endangered species - plants or animals We are not aware of any on our farm.

## **Management of Forest Resources**

#### **Protection from Pests**

Beaver damns have been removed at both "The Beaver Alley Farm and The Barlow Road Farm". The white pine weevil still requires annual spray and leader removal; "The McDonald's Farm should get extra time for treatments.

We are not expecting to save our Ash and we will thin them out when best.

#### **Reforestation and Afforestation**

1998 Harvest at The Barlow Road Farm Please refer to the attached file for details.

2010 Harvest at The Darrowville Farm Please refer to the attached file for details.

All future harvests will be done with a pre-selected tree basis.

(optional) Prescribed Fire/Burns

**Management Plan Implementation Constraints** 

Other

For each stand, write what your management objectives are and a brief description of the stand and its current and desired future conditions as well as the management activities. Further detailed inventory/plot data can be included if desired.

Stand Objectives		
Stand# Five	Acres 25.82	

#### **Objectives:**

As a head water for the Brandywine Watershed, this forest has much to contribute toward water quality. It can filter the fertilizers from the adjacent neighbors' residential yards. The wildlife is intense. Deer, bobcat, fox, beaver, and turkey live here. The beavers lives are short. We favor the various species of oak for it's food source.

## Stand # Five Current Conditions

#### General description

This stand is a combination of upland and lowland sites. Pin oak, swamp white oak, black gum, and soft maple are present in the lower levels. On higher ground, red oak, beech, sugar maple, tulip, hickory, and white oak are growing. The upland soil type is poorly drained Mahoning silt loam,2 to 6 percent slopes (MgB). There may be better drained Ellsworth or Canfield silt loam along the west side. The wetter, flatter sites are poorly drained Mahoning silt loam, 0 to 2 percent slopes (MgA) and the nearly level, poorly drained Trumbull silt loam (Tr). The trees present are best suited for their areas. Each day, we walk the stand and look for signs of dumping and inspect the water quality. We need to perform vine control, and as we thin, we favor the oak trees.

The City of Hudson does require us to maintain the water flow in the creek. Neither a beaver or a tree shall block the creek.

Age
all

Current forest type and current age

Bird's-eye view	of current stand	d condition (check one)	
✓Wild	Evenly	Evenly spaced	Variable density
stand	spaced	with openings	spaced with openings
			25 (ft) Seedling (<5"DBH) 10 (ft)
Size and shape of	openings irregula	50 by 100 ft.	
Current structure:			
Even aged  One canopy lay	Two aged  Ter Two canopy	Unevenaged  layer Multi-layer/Unevenaged	aged
Stand #Five	Desired Futu	re Stand	
Condition Desi	red forest type and	expected longevity	
Forest Type		Age	
favor oak, but all hardwo	ods are welcome	all	
Desired species to	naturally regenera	ate_oak	
Desired species to	plant not require	ed	
			C4 1 # 5

		4 4 1543 /ala ada am	\
	-	re stand condition (check or	
Wild	Evenly	Evenly spaced	✓ Variable density
stand	spaced	with openings	spaced with openings
9-9-0	0 0 0 0	000000	0 2 2 2 2 0
0.00	0 0 0 0	000000	0 0 0 0
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9		0000 00	00000
2950		000000	20 000
774		000000	600600
		"DBH) 25 (ft) Pole (5-8"DBH) 25	_(ft) Seedling (<5"DBH) <u>15</u> (ft)
Size and shape o	f openings same	as current	
·	,		
Desired structur	e:		
Even aged	Two ages	Unevenaged	
One canopy la	ayer Two canop	y layer 🔽 Multi-layer/Unevenage	d
Other Desired St	and Descriptions:		

## Office Booting Charles Booting Transcription

## Stand # Five Forest Management Activities

If a subset of the stand is being treated, the general area can either be described or identify the impacted areas on your map

## Forest Health Management Activities

Vine control during the growing season. Thinning at the pole size level.

Harvesting We harvested this stand in 1996.		
Slash management		
Post harvest activities		
Permits		
Best Management Practices		
Monitoring  Daily inspection of the water quality. for invasive species.	Inspect for dumping.	Always be on the search

Add more pages as needed for each additional stand of trees.

February 21, 2011

For each stand, write what your management objectives are and a brief description of the stand and its current and desired future conditions as well as the management activities. Further detailed inventory/plot data can be included if desired.

Stand Objectives		
Stand# Six	Acres 20	
Objectives:		
pines along the border shar Program (SIP).	EASONS ROAD The bulk of the seedlings planted are white pine, along with a few Aust with the gas company. The white pines were planted in 1996 under the Stewardship Incentitivity of this once open field.	trian tive
Stand # Six C	rrent Conditions	
General description		
moderately well dra	oes include somewhat poorly drained Mahoning silt loam (MgB led Ellsworth silt loam (EIB), and also a slightly steeper 6 to 12 rth silt loam (E1C2). Woodland productivity is rated as fair to go	-
Current forest type an	current age	
Current forest type an	Autonic ago	
Forest Type	Age	
white pine	23 yrs.	

Bird's-eye view of current stand Evenly spaced	tand condition (check one)  Evenly spaced with openings	Variable density spaced with openings		
Current spacing (in feet) Large (Size and shape of openings20f		20 (ft) Seedling (<5"DBH) 30 (ft)		
Current structure:				
Even aged  Two aged  Unevenaged  Unevenaged  One canopy layer Two canopy layer Multi-layer/Unevenaged  Stand #Six Desired Future Stand				
Condition Desired forest type	and expected longevity			
Forest Type	Age			
white pine	all			
natural hardwoods	all			
Desired species to naturally regenerate pine and hardwood oak, cherry, hickory  Desired species to plant not required				

Bird's-eye vie	w of desired futu	re stand condition (check or	
Wild	Evenly	Evenly spaced	✓ Variable density
stand	spaced	with openings	spaced with openings
9-9-0	0 0 0 0	000000	0 2 2 2 0 0
200	0 0 0 0	000000	
<b>ENGO</b>	0 0 0 0	0 00000	6 000
	0 0 0 0	0000 00	00000
250	0 0 0 0	000000	20 000
8	0 0 0 0	000000	600600
	(in feet) Large (>9 of openings 20 ft. b		(ft) Seedling (<5"DBH) <u>20(ft)</u>
Desired structur	re:		
Even aged	Two ages	4 1 4 4 1 Unevenaged	
One canopy I	ayer Two canop	y layer 🔽 Multi-layer/Unevenage	ed
Other Desired S	tand Descriptions:		

#### Other Desired Stand Descriptions

## Stand # Six Forest Management Activities

If a subset of the stand is being treated, the general area can either be described or identify the impacted areas on your map

## Forest Health Management Activities

Crop thinning was done during 2016. Now, we will prune as required. Invasive American elm, ash, and aspen should be removed.

For each stand, write what your management objectives are and a brief description of the stand and its current and desired future conditions as well as the management activities. Further detailed inventory/plot data can be included if desired.

Stand Objectives				
Stand# Seven	Acres 3.47			
Objectives:				
THE HIGH DOINT EARM A	T SEASONS BOAD	We hope to imp	rove the produc	ct of this forest

THE HIGH POINT FARM AT SEASONS ROAD We hope to improve the product of this forest. Also, we can improve the aesthetics along Seasons Road by growing a better forest. This stand is adjacent to our other stands and contributes to the whole forest.

#### Stand # Seven Current Conditions

#### **General description**

This forest fronts Season Road in a high traffic area. It is 100 ft. west of our Pine Plantation of 20 acres. During the 1990's, we removed dumping debris that had accumulated over decades of trespassing. We want to restore it's natural beauty. The soils here are Mahoning and Ellsworth B-slope silt loams (MgB, E1B)....good for the red maple plus upland oaks, hickory, tulip, and the beech; not for black walnut.

Current forest type and curre	nt age
Forest Type	Age
Red maple	50 yrs.
Ash	

Bird's-eye view	v of current stan	d condition (check one)			
✓Wild	Evenly	Evenly spaced	Variable density		
stand	spaced	with openings	spaced with openings		
Current spacing	(in feet) Large (>9"	DBH) 15 (ft) Pole (5-8"DBH)	15 (ft) Seedling (<5"DBH) 15 (ft)		
	openings 15ft. b				
Current structure					
	Two aged  yer Two canopy  Desired Futu	Unevenaged  layer Multi-layer/Uneven	aged		
Stand # Sever	Desired Full	ire Statio			
Condition Des	ired forest type and	d expected longevity			
Forest Type		Age			
Red maple		all			
	9				
Desired species to naturally regenerate Red maple					
Desired species t	o plant not requi	red			
			Chard # Cours		

Bird's-eye view	w of current stan	d condition (check one)	-		
<b>✓</b> Wild	Evenly	Evenly spaced	Variable density		
stand	spaced	with openings	spaced with openings		
Current spacing	(in feet) Large (>9"	DBH) 15 (ft) Pole (5-8"DBH)	15 (ft) Seedling (<5"DBH) 15 (ft)		
Size and shape of	f openings 15ft. b	y 15 ft.			
Current structure	9:				
Even aged  One canopy la	Two aged	Unevenaged  layer Multi-layer/Unevenaged	aged		
Stand #Seve	n Desired Futu	re Stand			
Condition Des	sired forest type and	l expected longevity			
Forest Type		Age			
Red maple		all			
Desired enecies	to naturally regener				
Desired species to naturally regenerate Red maple  Desired species to plant not required					
Desired species	to plant riot requii	cu			

Bird's-eye vie	w of			futu	re s	-					ck or		Vari	ahla di	ancity		
Wild stand			enly aced	L.			Evenly spaced with openings			✓ Variable density spaced with openings							
Stalla		эþ	accu	22.0	-	_		open	ingo	-	_	-	-				
9-900	0	0	0	0	0	0	0	0	•	•	-	-	ge.	4	89		
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800	0		0		0	0	0		0	0	0	0	0				
						O.F.					25					10	44.1
Desired spacing	in f	eet)	Large	e (>9"	DBH	) 25	_(ft)	Pole	(5-8"	DBH)	25	_(ft)	See	edling (	<5"DBI	H) <u>10</u>	_(ft)
Size and shape of	of ope	nings	25	ft. b	y 25	ft.				_							
Desired structu	re:																
	3			-		A			Ł	A							

One canopy laver	Two canopy layer	Multi-layer/Unevenaged
One carropy layer	i iio oanopjiajo	

## Other Desired Stand Descriptions:

# Stand # Seven Forest Management Activities

If a subset of the stand is being treated, the general area can either be described or identify the impacted areas on your map

## Forest Health Management Activities

Continue crop tree release thinning. Continue weed control at the frontage along Seasons Road. Finish the Timber Stand Improvement of grape vine control.

Harvesting None at this time.
Slash management
Post harvest activities
Permits
Best Management Practices
Monitoring Each day, inspect for litter and dumping.
Add more pages as needed for each additional stand of trees.

For each stand, write what your management objectives are and a brief description of the stand and its current and desired future conditions as well as the management activities. Further detailed inventory/plot data can be included if desired.

A1 1	~ R. 1	4.	
Stand			/66
Clariu		CULI	100

Stand# Eight

**Acres** 17.21

#### **Objectives:**

THE LAKES FOREST AT SEASONS ROAD This stand has two small lakes that are part of the Mudbrook Watershed - this water flows east toward Hudson's water well fields. Our main goal here is to protect the water. Many letters have been mailed asking for help to stop the dumping that occurs at this water way.

For decades, adjacent property owners have dumped into these waters.

## Stand # Eight | Current Conditions

#### **General description**

On Rt. 8 in Hudson, tens of thousands of motorists drive by this stand each day. There are many adjacent property owners and it seems that each one would fill their wetland area unless they are told not to.

The soil types that are found at the Pine Plantation and the Highpoint Farm are here as well, as this stand is part of the same forest. A few new soil types are present as well; in the drainages there is a nearly level, poorly drained Canadice silty clay loam. In the north part of the stand, there is a bit of moderately well drained Bogart- Haskins silt loam, 2 to 6 percent slopes (BhB), a bit of well drained Chili loam (CnB), and a bit of Chili gravelly loam (CoC2).

We have spent much time controlling the multi rose flora.

## Current forest type and current age

Forest Type	Age
Upland hardwoods	all

Bird's-eye view of	current stand	condition (check one)	TH 445 MIN.		
✓ Wild	Evenly	Evenly spaced	Variable density		
stand	spaced	with openings	spaced with openings		
Current spacing (in f	eet) Large (>9"D	BH) 25 (ft) Pole (5-8"DBH) 25	_(ft) Seedling (<5"DBH) 15 (ft)		
Size and shape of ope	nings none				
Current structure:					
Even aged  Two aged  Unevenaged  One canopy layer  Two canopy layer  Multi-layer/Unevenaged  Stand #Eight  Desired Future Stand					
Condition Begins	I forcet tune and	expected langevity			
Condition Desired	i iorest type and	expected longerity			
Forest Type		Age			
same		all			
Desired energies to no					
Desired species to naturally regenerate upland hardwoods					
Desired species to pl	ant not require	ea			

Bird's-eye vie Wild stand	w of desired fu Evenly spaced	ture stand condition (check on Evenly spaced with openings	e) ✓ Variable density spaced with openings
Desired spacing	(in feet) Large (>	9"DBH) 25 (ft) Pole (5-8"DBH) 25	_(ft) Seedling (<5"DBH) <u>15</u> (ft)
Size and shape o	f openings same	(-)	
Desired structur	re:	ed Unevenaged	
One canopy l	ayer Two cano	py layer 🔽 Multi-layer/Unevenaged	j
04 - 0 - 1 - 1 0	D		

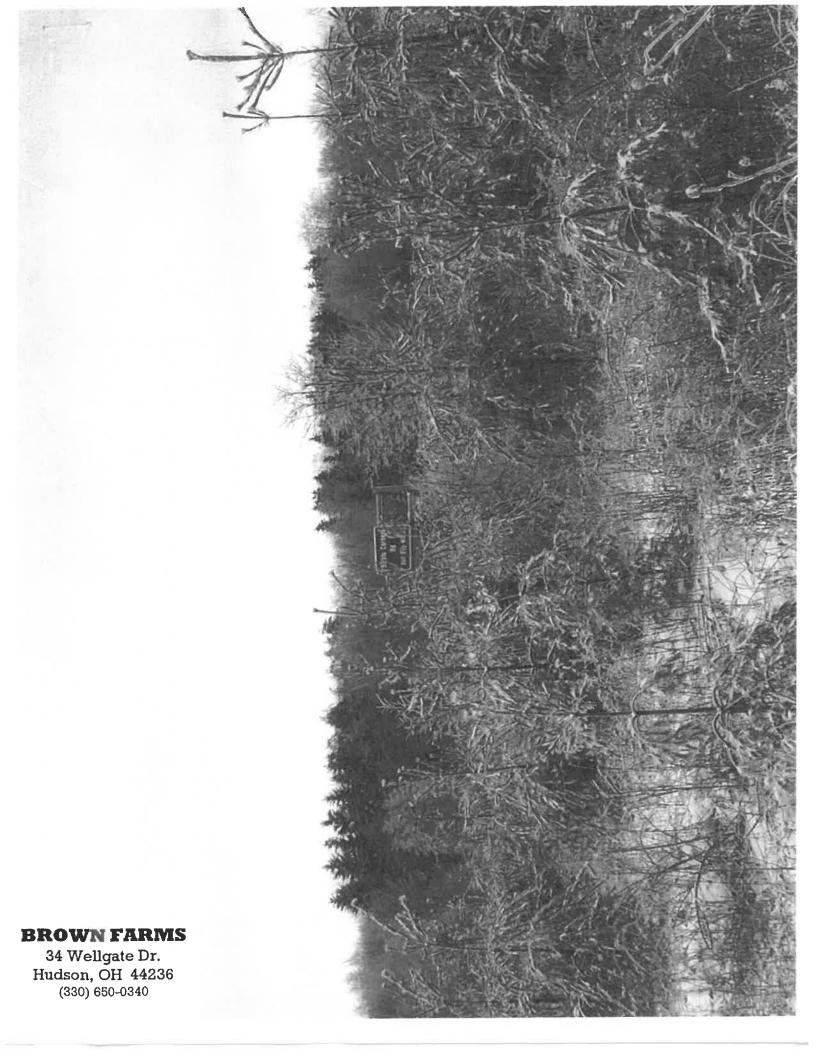
# Other Desired Stand Descriptions:

## Stand # Eight Forest Management Activities

If a subset of the stand is being treated, the general area can either be described or identify the impacted areas on your map

## Forest Health Management Activities

Each day, walk the stand and look for signs of dumping. Inspect the water features for clarity. Maintain the TREE FARM signs that we post along Rt. 8. The signs are prone to wind damage and must be tended. Although we have removed all the vines, look for restarts.





Hudson, Ohio **Mud Brook** Watershed Study



