

MY FOREST FIELD DAYS FIELD DATASHEETS

My Name: _____

My Role Play Name: _____

My Interest for the Family Management Plan is (circle one):

Timber

Water & Soil

Recreation

Wildlife

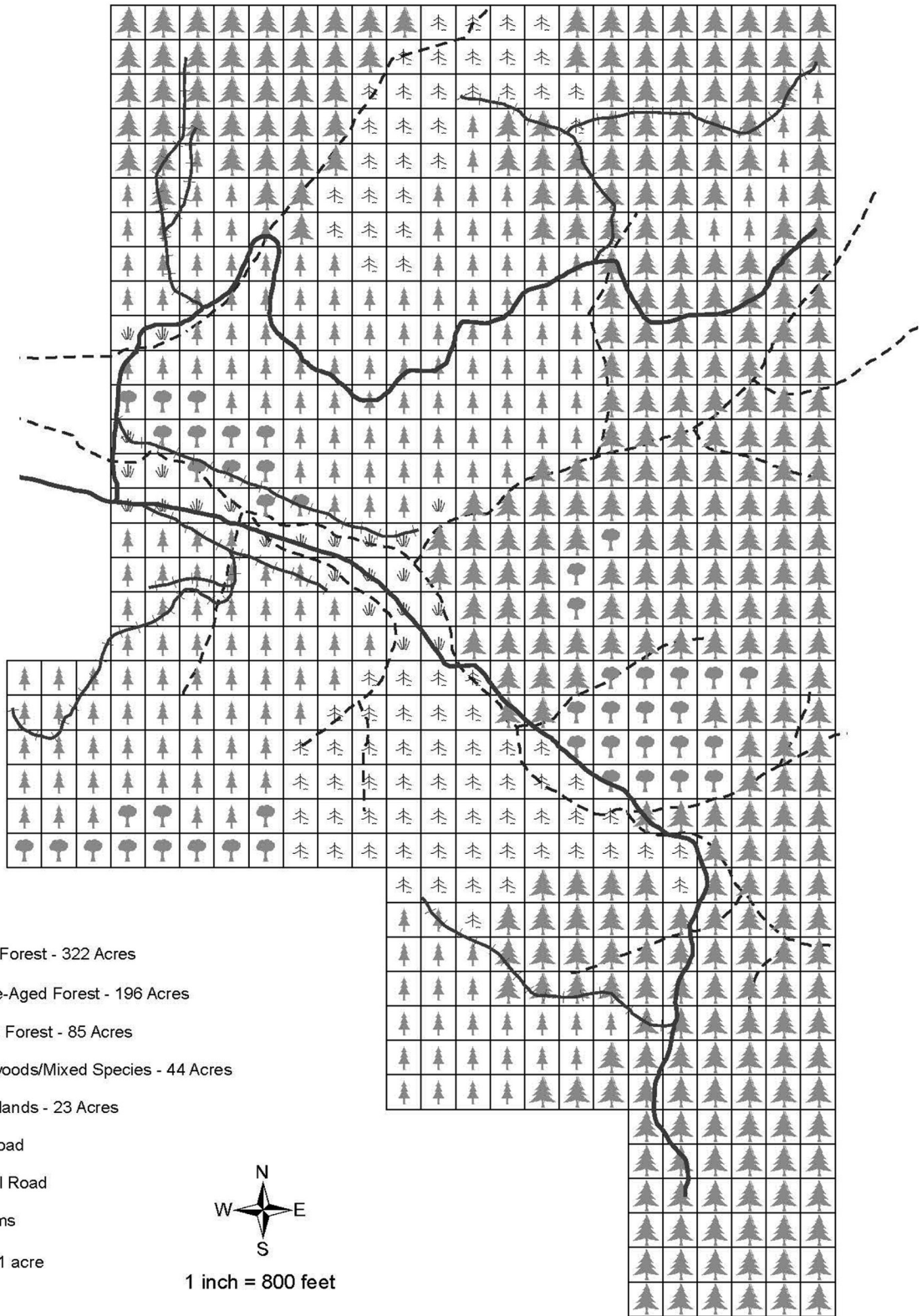


My Color: _____ My Number: _____

My Animal: _____



Map of Your Property



Legend

-  Older Forest - 322 Acres
-  Middle-Aged Forest - 196 Acres
-  Young Forest - 85 Acres
-  Hardwoods/Mixed Species - 44 Acres
-  Grasslands - 23 Acres
-  Dirt Road
-  Gravel Road
-  Streams
-  Approx. 1 acre



1 inch = 800 feet

YOUR FIELD DAY!

GROUND RULES:

This is a school day and school rules apply!

Be RESPONSIBLE

- Have your materials (bring extra pencils)
- You are responsible for doing *your* work
- Dress for the weather

Be RESPECTFUL

- Be respectful of the volunteers by listening and actively participating
- Be respectful of the property (please pick up trash you find)
- Be respectful of the plants and animals (don't pick them, or pick them up — this is their home)
- Be respectful of one another (allow others the opportunity to learn, and keep your hands to yourself)

Be SAFE

- Wear appropriate shoes
- No running
- Keep your hands to yourself
- Do not pick plants, some are poisonous
- Students who have allergies need to come prepared (asthma, bee stings, etc.)

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Wildlife



Volunteer Name: _____

Profession: _____ **Employer:** _____

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1. What does 'Two Up, Two Down' mean in terms of the Forest Practices Act rules to enhance wildlife?

2. Name two ways wildlife biologists “look” for wildlife.

1.

2.

3. On the trail, name evidence of wildlife that you find:

Evidence	Animal

4. What is one thing you can learn about an animal from analyzing it's scat?

5. After you touch the furs, list your favorite fur and share one observation you made about it.

Animal	Observation

6. After you dissect owl pellets, answer these questions:

Circle one: An owl is a(n)... carnivore omnivore herbivore

7. What is the coolest thing you found in your pellet?

Soils



Volunteer Name: _____

Profession: _____ Employer: _____

Soils Type, Structure & Productivity

1. Fill in the chart

What are the 3 mineral components of soil from smallest to largest:	How does it feel?
smallest:	
mid-size:	
largest:	

2. Does the soil at this site have more sand, silt or clay?

CIRCLE ONE: Sand Silt Clay

3. What are three non-mineral components of soil?

1. 2. 3.

Soils Erosion and Compaction

1. FILL IN THE BLANK: Vegetative cover _____ soil. Leaving _____ helps to minimize silt moving into the water.

2. Which soil absorbs water faster? CIRCLE ONE: compacted uncompactd

Why?

3. Name two causes of compaction.

1. 2.

4. Discussion: When might compacted soil be helpful?

Water



Volunteer Name: _____

Profession: _____ Employer: _____

Observing a Stream

FILL IN THE BLANKS on your stream walk:

1. A riparian area is a zone along streams, or around ponds or lakes, which provides unique _____ for plants and animals.
2. Maintaining vegetation near a stream helps cool the water by providing _____.
Vegetation also provides _____ and _____ for aquatic animals.
3. The Forest Practices Act requires buffers to be left along streams because the vegetation acts as a _____ for soil to protect water quality.
4. Identify three things in this stream that make it good habitat for fish
1. _____ 2. _____ 3. _____

Making a Stream

Use the stream simulator to investigate each condition suggested below.

	How might this affect water quality?	How might this affect fish habitat?
Make the stream channel as straight as possible.		
Place "large logs" or "boulders" in the stream to change the flow.		
Establish a riparian buffer of trees and other plants.		

Recreation



Volunteer Name: _____

Profession: _____ Employer: _____

Trespassing & Vandalism (A)

1. Name two types of vandalism you see.

1. _____ 2. _____

2. Name one way trespassing and vandalism could affect wildlife?

3. What ideas might a landowner consider to minimize littering and garbage dumping?

4. Name one other thing you can do as a landowner to prevent vandalism?

Hiking Safety (B)

1. What are two pieces of information that you should tell someone before you go hiking?

_____ you are going and _____ you will return.

2. Search and Rescue experts will tell you to “hug a tree” if you should find yourself lost in the woods. What do they mean?

3. Here are the “10 essentials” to always bring when heading out into the forest? Circle the three that rescue professionals consider the most important?

1. Map & compass

2. Water

3. Sunscreen

4. First aid kit

5. Whistle

6. Garbage bag/ rain gear

7. Trail food

8. Pocket knife

9. Flashlight

10. Matches/fire starter

Hiking Trails (C)

1. If a hiking trail gets a lot of use, name one way that you could you make it last?
2. How much does it cost to put in a trail?
3. Name one important thing for hikers to remember to protect the forest.
4. How might different users, such as horse or mountain bikes, affect trails?

Public Use (D)

1. For each public use, list what you need to provide and guess how much it costs to build each.

Type of public use	What do you need to provide?	Cost
picnic sites		
primitive camping		
full-service camping		

2. What do you think makes for a good camp site? Is this one? Name two problems with this site:

1.

2.

3. Would you collect fees from the public? If so, how?

4. Name two rules you would enforce at your campground and explain why.

Rule	Why

Forest Appreciation (E)

1. Diversity of plants is important for the forest to function well and support many different kinds of wildlife. Learn to identify two NATIVE species and name them here:

1.

2.

2. What interpretive and educational opportunities could be offered in your forest? Name two.

1.

2.

3. An invasive species is a non-native species that reduces diversity by taking over and not allowing other plants to establish. Learn to identify an invasive species, and name it here:

4. What can you do to prevent invasive species from damaging your forest? Name two things:

1.

2.

Timber



Volunteer Name: _____

Profession: _____ Employer: _____

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FILL IN THE BLANKS:

1. The dominant tree species on the tree farm is _____.

2. Before it was a forest it was a _____.

3. Four *resources* trees need to grow are:

1. _____ 2. _____

3. _____ 4. _____

Collecting Data

It is not practical to measure every tree in a forest, so foresters take *samples* and make *estimates*.

The sample plot is a 1/10th of an acre (radius=37.2 ft.). To calculate the volume of the tree we need to count the number of trees and measure their heights and diameters.

1. How many trees per acre? Make a guess! _____

_____ number of trees in 1/10th acre plot

×10 plots per acre

= _____ **number of trees per acre**

2. What is the average DBH (measured at 4.5 ft. above the ground)? Make a guess! _____

1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____

8. _____ 9. _____ 10. _____ 11. _____ 12. _____ 13. _____ 14. _____

15. _____ 16. _____ 17. _____ 18. _____ 19. _____ 20. _____ 21. _____

This activity is continued on the next page.

_____ total DBH (What is the total DBH of trees measured in the 1/10th acre plot?)

÷ _____ number of trees

= _____ **average DBH**

3. What is the average tree height? - Make a guess! _____ Actual height: _____
Practice with a clinometer!

4. What is the average bf per tree? _____
Use the Timber Volume Table!

5. What is the tree volume (bf) in the plot? 6. What is the value of the trees on the plot and acre?

_____ number of trees in plot

_____ bf per plot

× _____ average bf per tree

× \$0.60 per bf (= \$600 per thousand bf)

= _____ **bf per plot**

= \$ _____ **per plot**

× 10 plots per acre

= \$ _____ **per acre**

7. How can you tell the age of the trees? - Make a guess! _____
Practice with reading a core sample!

Count the years it took to grow an inch _____ Actual Age: _____ years

Thinking about Management

1. If you were going to thin this forest (taking out 1/4 of the trees), how would you select what trees to harvest?
2. Can you find an example of a tree that is *suppressed* with other trees *outcompeting* it for resources?