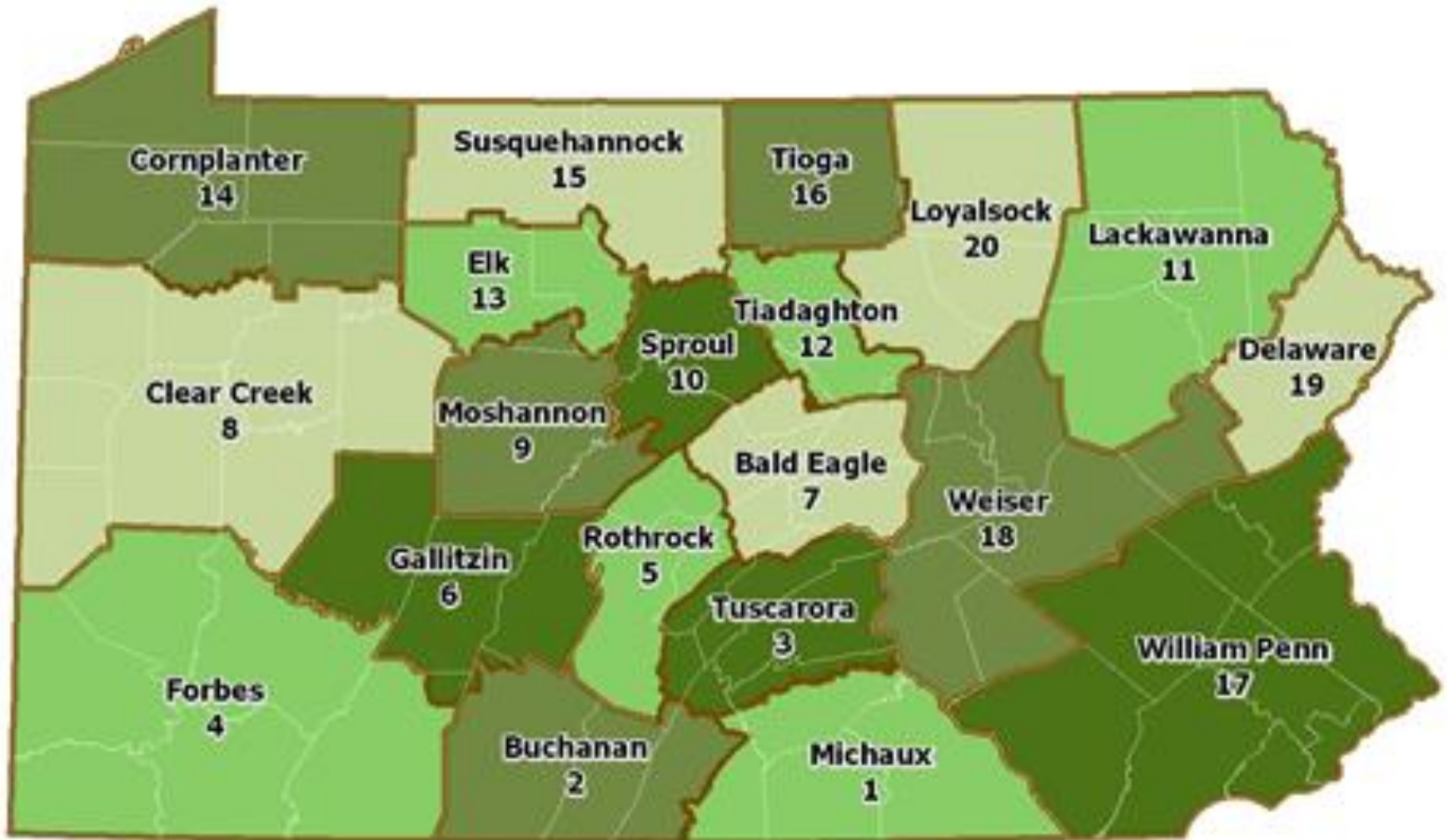


Forest Management Planning: Looking Toward Tomorrow

Gerald Hoy
Bald Eagle State Forest
PA Bureau of Forestry



PA Bureau of Forestry Districts



What We'll Cover

- ▶ Introduction to Forest Stewardship
- ▶ Explore what is important to you
- ▶ Types of plans and content
- ▶ Hiring a forester
- ▶ Where to find assistance
- ▶ Principles of sustainable forestry and stand development



Stewardship

- ▶ Wise care of woodland to ensure forest health and productivity
- ▶ Recognizing your rights and the rights of others today and tomorrow
- ▶ An ethic; looking beyond immediate personal needs and more to leaving a legacy

Explore what is important to you!



How do you experience your woods?

- What is an experience?
 - ▶ The events that make up an individual's life
 - ▶ The events that make up the past
 - ▶ Something personally encountered, undergone, or lived through



What do you value about your woods?

- Human values are conceptions of basic categories of desires.
 - ▶ Concepts – What is good and desired
 - ▶ Desired – Importance is relative



What do you like most about your woods?



















Marie Perle

What is in a Forest Management Plan?



A Forest Management Plan is

Is a story wrote about your forest. It includes the current state of your woodland and **YOUR** goals for the future. It will also include your objectives and a planned activity schedule to lead you to your goals.

Types of Plans

- ▶ Forest Stewardship Plan



- ▶ Tree Farm Plan



- ▶ CAP 106 Forest Management Plan





**CAP 106 Forest
Management Plan For:**



Owner Name



pennsylvania
DEPARTMENT OF CONSERVATION
AND NATURAL RESOURCES

The Planning Process

- ▶ This is a process to help you as a landowner identify resources and opportunities. Then align them with your goals and make an activity schedule to help you reach those goals.



What a Forest Management plan should do



- ▶ Where you want to be?
 - Short term & Long term
- ▶ Where you are?
- ▶ What can done to achieve where you want to be?

Let's think about your woods



Goals

Objectives

Options

Opportunities

What are your goals?



What are your objectives?

- Something to attain or accomplish



Stewardship Planning Basic Steps

- ▶ Seek Professional Assistance
- ▶ Determine YOUR:
 - Values
 - Goals
 - Objectives
- ▶ Learn What You Have (Inventory/Evaluate)
- ▶ Create a Schedule of Actions
- ▶ Review the Plan

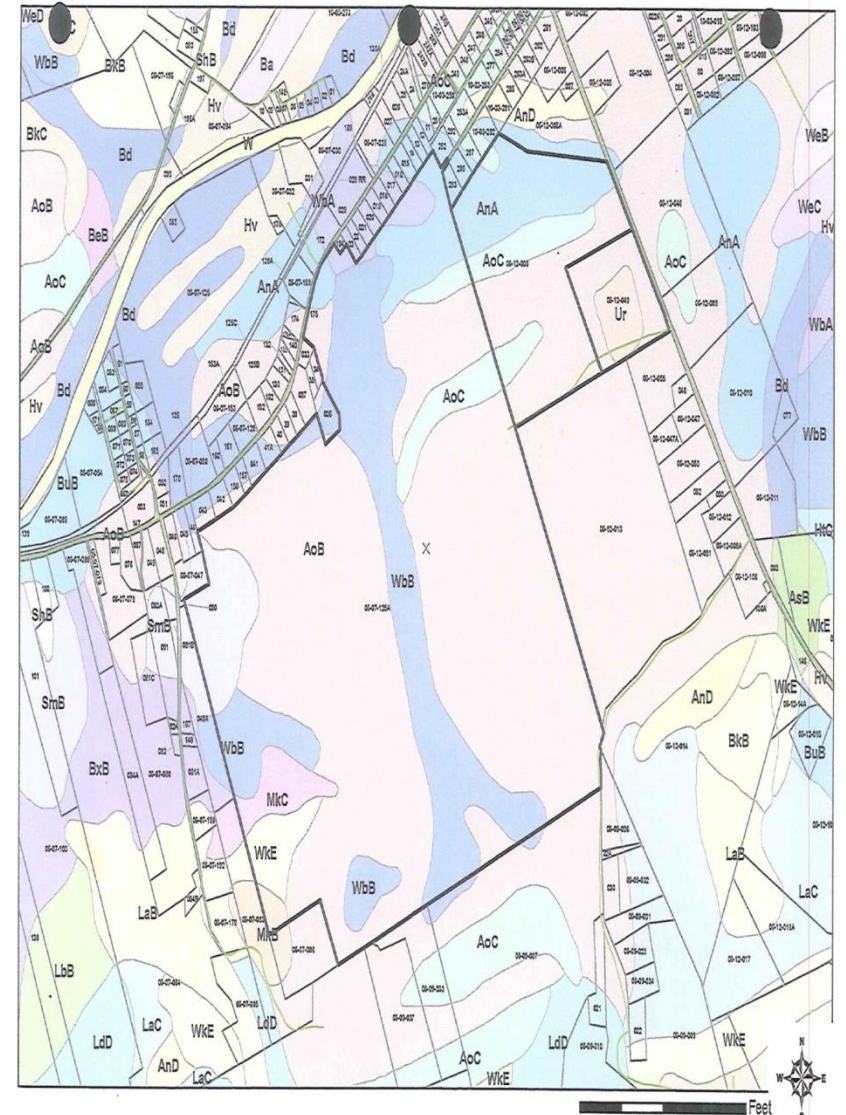
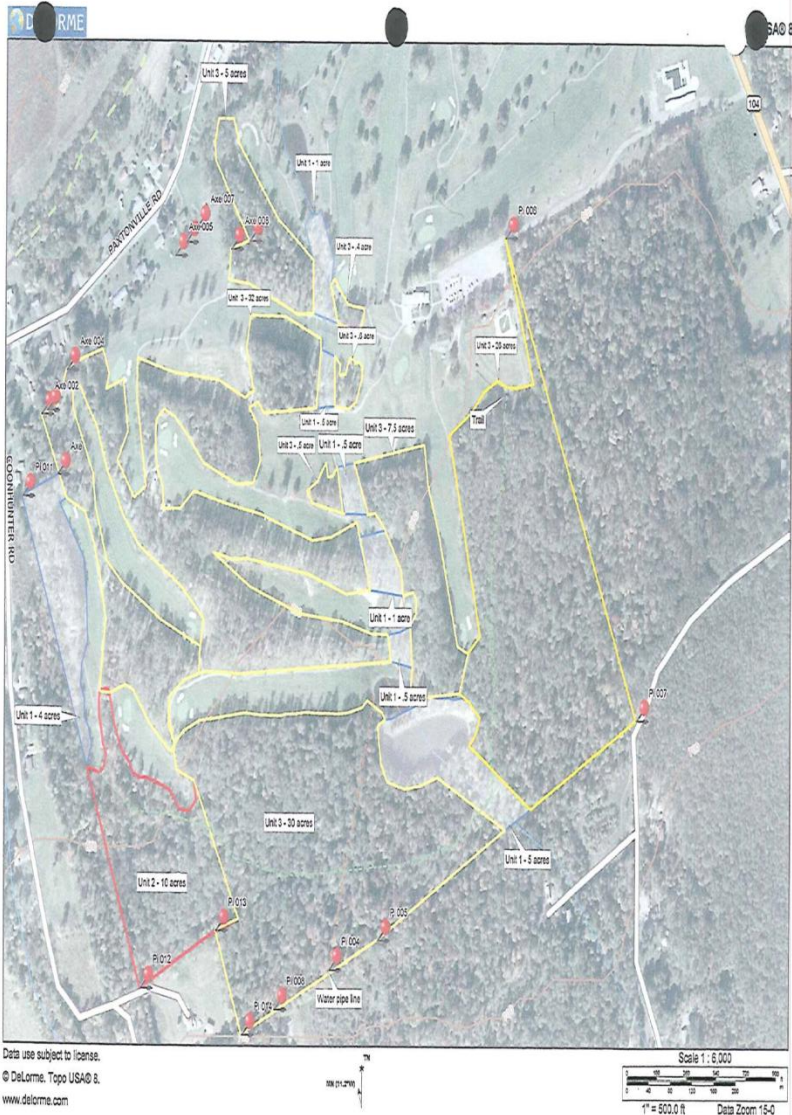


CONTENT

- ▶ Property Description
- ▶ Forest Management goals
- ▶ Property History
- ▶ Maps (Boundaries, MU, Soils)
- ▶ PNDI Search
- ▶ Stand level descriptions with desired future condition
- ▶ Management activity schedule (with practices)



MU and Soils Maps



Activity Schedule

Management Activity Schedule and Tracking

(Copy additional pages if needed)

*NRCS Practice Code needed if practice will be submitted for cost share, otherwise leave blank.

Mgmt. Unit Stand/Field	Acres/ feet	NRCS Practice Code	Treatment Activity Short Description	Dates		Cost Share Used? Program Type?	Net Cash Flow	
				Planned	Completed		Cost	Income
2	1.3	647	Early Successional Habitat with plantings	2012				
2	600	422	Hedgerow Planting	2012				
2	.5	645	Upland Habitat Mgmt- Annual Food Plot	2013				
1 or 2	600'	386	Field Border (either cutback or warm season grass)	2013				
1 and 2	16	645	Wildlife Structures- Brushpiles and nest boxes	2013				
1	2	490	Tree/shrub Establishment Site Prep	2014				
1	2	612	Tree/shrub Establishment	2014				
1	2	490	Tree/shrub Establishment Site Prep	2015				
1	2	612	Tree/shrub Establishment	2015				
1	4.73	666	Forest Stand Improvement	2016				
1	4.73	666	Forest Stand Improvement	2017				
1	4.73	666	Forest Stand Improvement	2018				
1 & 2	16		Monitor for Invasive Species and Insects	2014- 2022				
1	4		Inspect Plantings and Conduct Maintenance as Needed	2014- 2022				

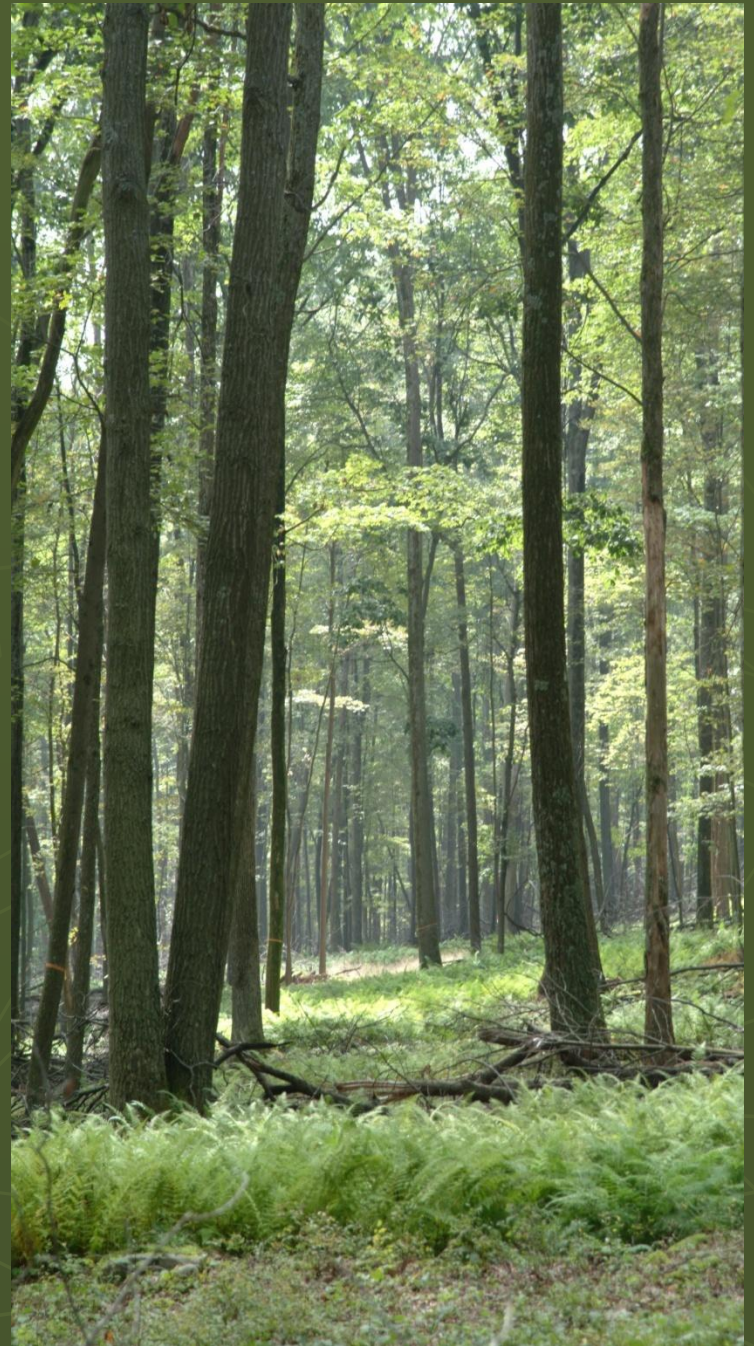
Forest Management Plan

- ▶ Not the Same as Timber Harvesting Plan
 - More Specific
 - Locations of landings and roads
 - Stand Analysis
 - Current Timber Markets



“Your woodlot is in fact, a historical document which faithfully records your personal philosophy. Let it tell a story of tolerance toward living things, and of skill in the greatest arts: how to use the earth without making it ugly.”

A Leopold



Signatures and Approvals

- ▶ Plan Preparer (Forester)
- ▶ PA DCNR Service Forester
- ▶ NRCS District Conservationist (CAP 106)
- ▶ Landowner



How can you make sure you retain your values as you manage your woods?

- ▶ Articulate your Values
- ▶ Know your Goals and Objectives
- ▶ Seek Professional Assistance
- ▶ Revisit and review your plan often



The Steps to creating a CAP 106 Forest Management Plan

1. Understand what is important to you
2. Schedule a site visit with you Service Forester
3. Educate Yourself
4. Register at your local FSA (Farm Service Agency) office
5. Contact NRCS (Natural Resource Conservation Service) to start ranking process
6. Start the interview process on hiring your consulting forester

Where to Find Assistance



Service Foresters

- ▶ 35 Service Foresters in PA covering 1-3 counties
- ▶ Available for site visits and technical assistance throughout the entire process
- ▶ Service Foresters will not write Forest Management Plans



PA Game Commission



- ▶ Wildlife Diversity Biologist
 - Available to write plans for Private Forest land
 - Not a Deer Management plan



Penn State Extension

- ▶ Extension Foresters
- ▶ Numerous Publications
- ▶ Workshops and Conferences
- ▶ Webinars



County Conservation District

- ▶ Can offer all kinds of assistance with erosion, sedimentation, and water issues
- ▶ Some Counties employ a forester on staff for outreach



Woodland Owner Association

- ▶ Currently there are 27 Woodland Owner Associations in PA
- ▶ These are made of Forest Landowners wanting to learn more about how to manage their land
- ▶ For a complete listing of the associations please contact Penn State Natural Resource Extension or your Service Forester

Pennsylvania Forest Stewards

- ▶ Specially trained forest landowners that want to help educate other forest landowners



Hiring a Forester



Forest Industry

- Landowner's Trees
- Forestry consultants (WORKS FOR YOU)
- Logging
- Sawmill
- Lumber
- Construction
- Furniture
- Crafts and specialized wood products



Why hire a forester?

- ▶ The consequences can be severe
- ▶ Selling timber is legally, financially, and environmentally complex
- ▶ A successful timber sale involves three parties
- ▶ Experience to meet your objectives and retain what you value



When Hiring a forester?

- ▶ Does he/she share your values?
- ▶ Do they understand your needs?
- ▶ Do they talk about the forest's future
 - Residual and Regeneration
- ▶ Do they move beyond money?
- ▶ Committed to Sustainable Forestry?

Who is this forester?

- ▶ **Credentials:** education, experience, certification, professional affiliations, recent continuing education
- ▶ **Professional Philosophy:** their goals when working with clients, type of clients they work with, why did they choose this profession

Who is this forester?

- ▶ **Your Goals and Their Response**
- ▶ **References (goals similar to yours)**
 - Reliability
 - Responsiveness
 - Communication Skills (listens, reflects)
 - Quality of Work
 - Assessment of Associates (e.g., loggers, staff)
- ▶ **Fees for Types of Work**
- ▶ **Availability**
- ▶ **Stewardship of the Land**

The Trees Are in No Hurry to Be Harvested

- ▶ Look at what has been done
- ▶ How do you want your woods to provide future experiences
- ▶ Ask people (Good and Bad)
- ▶ Join a Woodland Owner Association



Sustainable Forestry Principles



Healthy Forest?



Healthy Forest?



Healthy Forest?



Same Rx Fire



Maintain or improve the health and vigor of the forest and its landscape/watershed



Protect soil and water resources



Manage forests for growth and energy storage



Manage for community, cultural, and economic benefits



Forest Industry

- Landowner's Trees
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Residual Stand

- ▶ Species Composition
- ▶ Seed Source Retained
- ▶ Tree Quality
- ▶ Average Stand Diameter



To grow Desirables

- ▶ Control Light
- ▶ Control competing vegetation
- ▶ Control Invasive plants
- ▶ Control Deer



**When Managing Your Woodlot,
Remember What You Value!!!!!!**



Stand Development



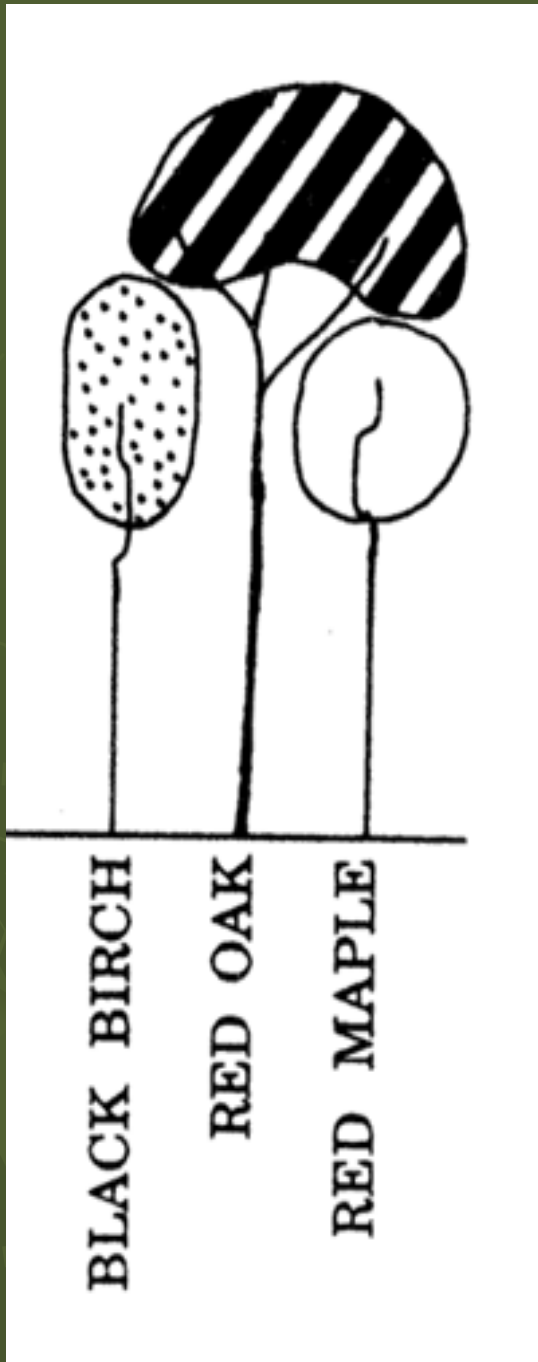
Tolerance

Shade

Tolerant: Hemlock, Beech, Hornbeam,
Flowering Dogwood, Hophornbeam, Sugar Maple
Black gum, Red maple, Hickory

Intermediate: White pine, Ash, Basswood,
Black oak, Red oak, White oak, Black birch,

Intolerant: Red pine, Black cherry, Tulip poplar
Aspen, Black locust, Willow, Gray birch



Stand Development

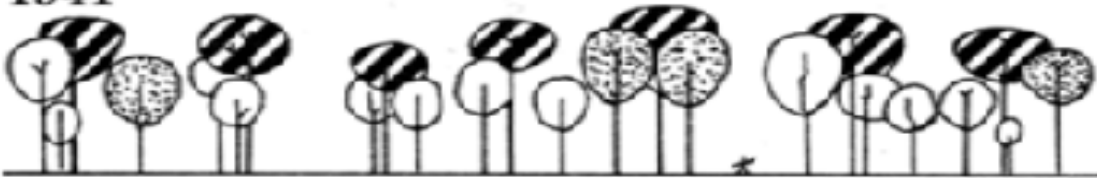
1911



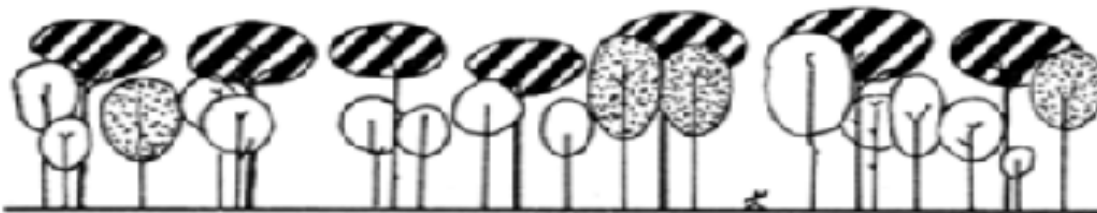
1926



1941



1956



1971



1 2 3 4 5 6 7
PLOT NUMBER



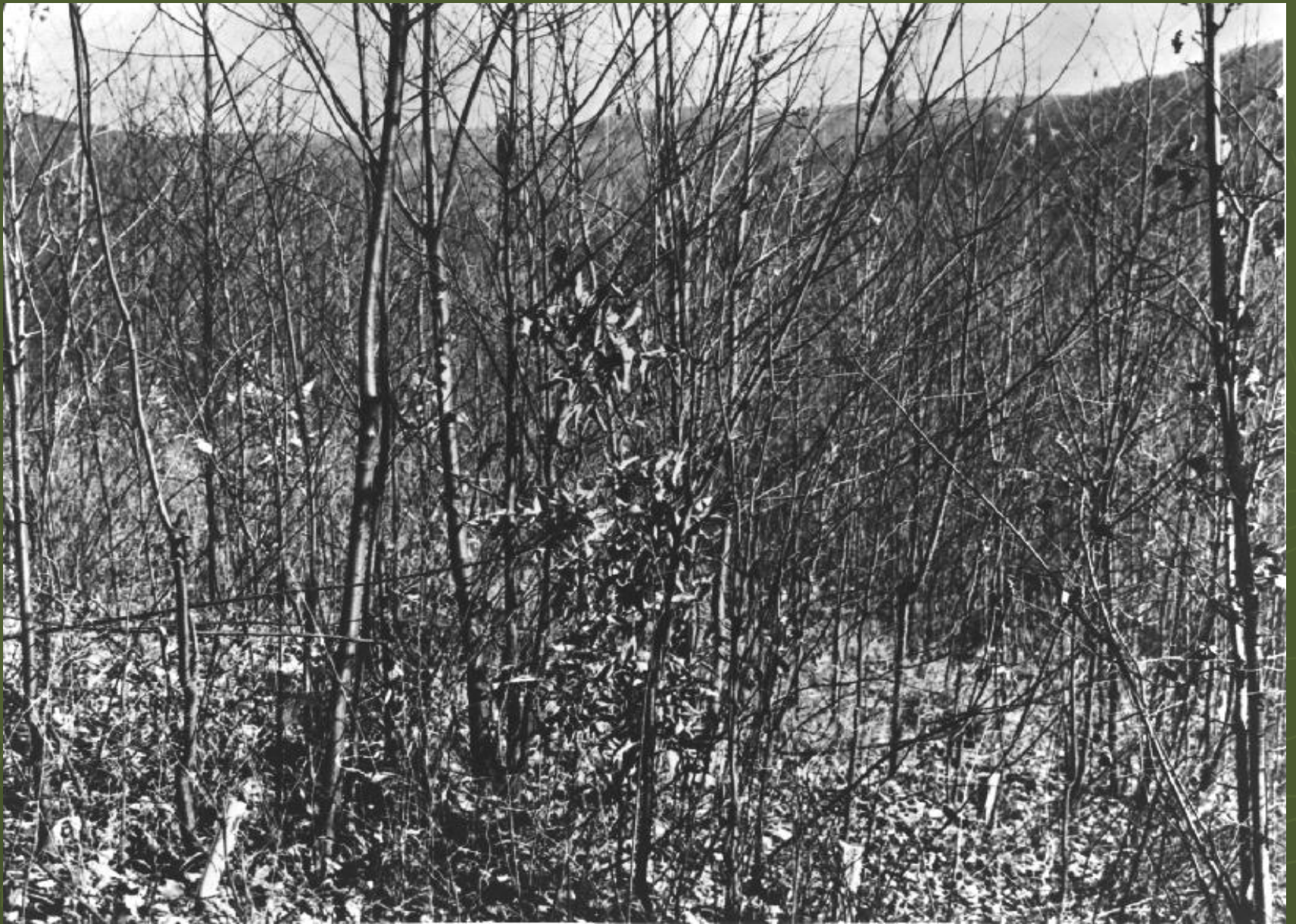
1927

US Forest Service



1928

US Forest Service



1937

US Forest Service



1947

US Forest Service



1958

US Forest Service



1968

US Forest Service



1978

US Forest Service



1988

US Forest Service



1998

US Forest Service



2008

US Forest Service

Think About Tomorrow

In losing stewardship we lose
fellowship; we become
outcasts from the great
neighborhood of creation.

Wendell Berry 1981

The end

ANY QUESTIONS?



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