

United States Department of Agriculture



CAP 106 Forest Management Plan For:



Owner Name



pennsylvania

DEPARTMENT OF CONSERVATION
AND NATURAL RESOURCES

SIGNATURES AND APPROVALS

This Forest Management Plan (FMP) is provided as a guide to help landowners accomplish the objectives that they have for their forest. This FMP will act as a guide for landowners in achieving the sustainable benefits of managing their forest resources for the next 10 years. With this FMP, the landowner automatically complies with the standards and benefits of the US Forest Service's Forest Stewardship Program, the American Forest Foundation's American Tree Farm System and is eligible for NRCS Cost Share programs. This plan will need to be reviewed and approved by the local NRCS District Conservationist, DCNR Service Forester, Technical Service Provider, and Landowner.

The Forest Stewardship Program and American Tree Farm Program are designed to promote wise use and sustained benefits of forest resources. While participation in these programs can provide benefits of forest management information networks, national recognition, financial tax savings, and increased forest product income generation through select markets, by NRCS policy, the landowner is not required to participate in these programs. If the landowner wishes to participate in either of these programs, please check the appropriate boxes and proceed to the Landowners Pledge.

Forest Stewardship Program Participation

Yes: No:

Tree Farm Program Participation

Yes: No:

Landowner's Pledge for Forest Stewardship/Tree Farm Program Status

Since timber harvesting has a significant impact on my forest resources I agree to complete commercial timber harvests recommended in the plan with the assistance of a professional forester. I understand that the forester is to designate trees to be cut based on a written prescription derived through a careful stand analysis of the stands involved.

I understand that a DCNR Service Forester or forest consultant will periodically review the implementation of my FMP to assist me in properly following the plan for my objectives. To enable him/her to carry out this responsibility I will make available copies of plan amendments and/or timber harvesting prescriptions before carrying out a major activity. I understand that I am not obligated to obtain approval from the service forester but that he/she may advise me if prescriptions do not appear to serve the goals of my FMP or meet Forest Stewardship/Tree Farm standards.

If I choose to deviate from the guidelines in the FMP, I agree to return the applicable signs designating my property as a "Stewardship Forest" or "American Tree Farm" to the DCNR service forester.

Landowner

Date

Forest Stewardship/American Tree Farm/EQIP Program Certifications

I am satisfied with the content and recommendations contained in this FMP, and will make an honest effort to follow them for the ten year period covered by the plan. I understand that the information within this plan may be used by NRCS and DCNR for conservation planning, and is not protected by legal privacy acts for either agency.

Landowner

Date

I certify that this FMP meets the requirements of the federal Forest Stewardship Program, American Tree Farm Program, and the USDA Environmental Quality Incentives (EQIP) Program and or the Quality Criteria for Forest Management Plans in Section III of the USDA NRCS Field Office Technical Guide.

Technical Service Provider/Plan Preparer

Date

DCNR Service Forester

ATFS Inspector #

Date

PA Unique ID Number: _____ Certified Tree Farm # _____

NRCS District Conservationist

Date

Table of Contents

SIGNATURES AND APPROVALS.....	2,3
Table of Contents.....	4
Property Ownership.....	5
Property Description.....	6
Forest Management Goals.....	7
Property History.....	7
Property Maps.....	8
Forest Natural Resources Enhancement and Protection.....	9
PROTECT SPECIAL SITES & SOCIAL CONSIDERATIONS.....	9, 10
AIR, WATER, AND SOIL PROTECTION.....	10
FISH, WILDLIFE, & BIODIVERSITY.....	10, 11
MANAGEMENT OF FOREST RESOURCES.....	11, 12
PROFESSIONAL ASSISTANCE.....	12
OTHER.....	12
Stand Level Information.....	13
Stand 1 Description.....	13
Stand 1 Desired Future Stand Condition.....	13, 14
Stand 2 Descriptions.....	14
Stand 2 Desired Future Stand Condition.....	15
Stand 3 Descriptions.....	16
Stand 3 Desired Future Stand Condition.....	16, 17
Stand 4 Descriptions.....	18
Stand 4 Desired Future Stand Condition.....	18, 19
Stand 5 Descriptions.....	20
Stand 5 Desired Future Stand Condition.....	20, 21
Management of Forest Resources: Carbon Sequestration.....	22
Forest Harvesting Activities Sheet.....	23
Management Activity Schedule and Tracking.....	24
Appendix 1.....	25
Tax and Business Management Information.....	25

Property Ownership

Landowner(s) _____

Mailing Address _____

Phone _____ E-Mail _____

Landowner's Representative (if applicable) _____

Mailing Address _____

Phone _____ E-Mail _____

Date of Original Plan Completion _____ Revision dates _____

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

Property Description

Legal property description _____

Nearest city or town _____ County _____

Total ownership acreage _____ Total forested acreage _____

Does landowner 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)

Forest Access to vehicles (check): Excellent (80% accessible) Good (at least 50%)
 Fair (at least 25%) Poor (less than 10%)

Watershed tract is located in:

Chesapeake Bay Delaware River Basin Ohio River Basin

Number of unique stands of trees _____

Property Maps-

1. **Topographic Maps (2)** -Landscape map showing property boundaries only and surrounding landscape for 2 mile radius. Property map showing: property boundaries, forest stands (NRCS Fields), special sites (wetlands, cultural features, natural features favored by landowner, etc.) water resources, roads, map scale, and a directional arrow.
2. **Aerial Photograph (1)** - Color Aerial Photo showing: property boundaries, forest stands (NRCS Fields), special sites (wetlands, cultural features, natural features favored by landowner, etc.) water resources, roads, map scale, and a directional arrow. Aerial photos can be derived through GIS, county assessment offices, DCNR PAMAP program online, or the following website.
<http://earth.google.com/>
3. **Soils Map (1)** - including legend, interpretations, etc. Soil maps are available from NRCS Web Soil Survey:
<http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm> or from your local NRCS office.

Attach Property Maps Here

Forest Resources Enhancement and Protection

Some of the following treatments may qualify for federal and state cost-share programs. For this section, work with Management Activity Schedule and Tracking as well as a map. Complete the Activity Schedule and draw and label the areas of management on your map if you wish to use this plan as part of your cost-share application.

Consider: *What treatments/monitoring/protection do you plan on completing?*
 When treatments will be implemented (season, year), follow-up activities, etc?
 Where will the management take place; entire stands, part of a stand, acres?
 Do you have applicable permits, professional help, and applications for cost share?

PROTECT SPECIAL SITES & SOCIAL CONSIDERATIONS

Draw areas on topographic maps if not already completed in Plan Mapping Section.

Special sites (are there archeologically, culturally, historically, geologically, or ecologically significant/valuable sites or High Conservation Value Forests on your property that you wish to delineate and protect?)

Adjacent stand or ownership concerns (how does surrounding management affect landowners property and how do your actions impact your neighbors? Consider aesthetic quality, wildfire concerns, deer management, privacy, other wildlife movement and habitat, invasive plant/animal/insect species)

Recreation (If recreation is one of your objectives, identify resources, describe and plan for opportunities.)

Access (Are property boundaries posted?)

AIR, WATER AND SOIL PROTECTION

What steps will be taken in management activities to conserve and enhance your forest's air, water and soil resources?

Forest Soil Protection (steep slopes, woody debris retention, nutrient cycling, vehicle travel, soil compaction, flood runoff, livestock issues, Best Management Practices if applicable.)

Access Roads (general maintenance, erosion potential, Best Management Practices, if applicable, road surface condition, road runoff, drain-dips, culverts, stream crossings, weed control, time-of-year use)

Streams, wetlands, ponds, lakeshore (Best Management Practices, if applicable, riparian buffer protections, DEP stream classification, etc. If a wetlands delineation map is available, include as a reference)

FISH, WILDLIFE and BIODIVERSITY

Describe the resources on the property and the activities planned to accommodate these values.

Fish & Wildlife (desired species, habitat improvement, animal control, den sites, nest boxes, snag retention, cavity trees, travel corridors, hunting)

State and Federal threatened or endangered species - plants or animals-PNDI Search Conducted and Results_

MANAGEMENT OF FOREST RESOURCES

Describe resources on property and activities that plan to accommodate these forest values.

Protection from Pests (Includes insects, diseases, weeds, invasive species. Inventory, control, monitoring, prevention guidelines. Consider using the range of integrated pest management including mechanical, physical, biological, cultural or chemical management)

Reforestation and Afforestation (natural regeneration, planting, site preparation techniques)

(optional) **Prescribed Fire/Burns** (fire for stand/habitat improvement, fuel reduction, Home Defense from Fire (Firewise Safety)

Forest Management Plan Implementation Constraints-(Local Timber Harvest/Land Mgmt. Ordinances, ROW issues with neighbors, Property Boundary Disputes, etc)

PROFESSIONAL ASSISTANCE

Assistance (list agencies and individuals that owner has/will utilize for forested property management decisions and implementation)

OTHER

Stand Level Information

For each Forested Stand/NRCS field, provide landowner management objectives, forest cover type (see Appendix 3), a brief management description, and management recommendations to reach objectives. Further detailed inventory/plot data can be included as an appendix to the plan if desired, but is not required for plan standards. Stand Recon. Data Collection Sheets are located in Appendix 2.

Stand 1 Description-(From Reconnaissance Data Sheets)

Stand 1 _____ Acres _____ Forest Type _____

Objectives: _____

Current Description (examples include tree species present/forest type, stand age, history, site index, elevation, slope, size class, stocking, etc.): _____

Stand Management Recommendations: _____

Stand 1 Desired Future Stand Condition

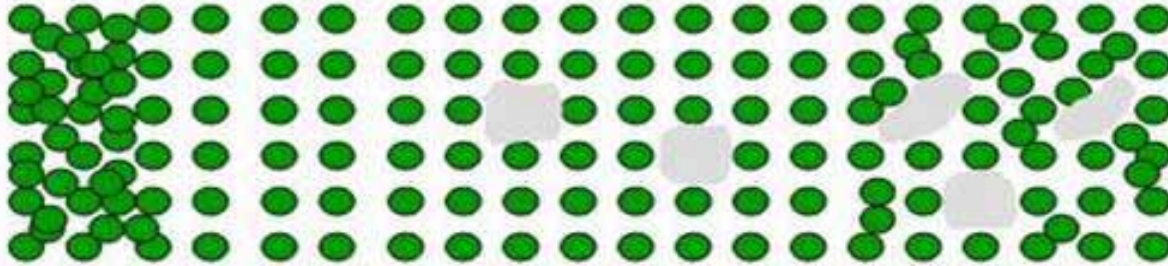
Desired future forest type (esp. site, size classes, and stocking) _____

Desired species to naturally regenerate _____

Desired species to plant (if applicable) _____

Bird's-eye view of desired future forest stand condition (check one)

- Wild stand
 Evenly spaced
 Evenly spaced with openings
 Variable density spaced with openings
- Some wildlife
 Maximizes growth
 Growth + regeneration
 Some growth + regeneration + wildlife



Desired stand structure:



- One canopy layer
 Two canopy layer
 Three canopy layer

Stand 2 Description-(From Reconnaissance Data Sheets)

Stand 2 _____ Acres _____ Forest Type _____

Objectives: _____

Current Description (examples include tree species present/forest type, stand age, history, site index, elevation, slope, size class, stocking, etc.): _____

Stand Management Recommendations: _____

Stand 2 Desired Future Stand Condition

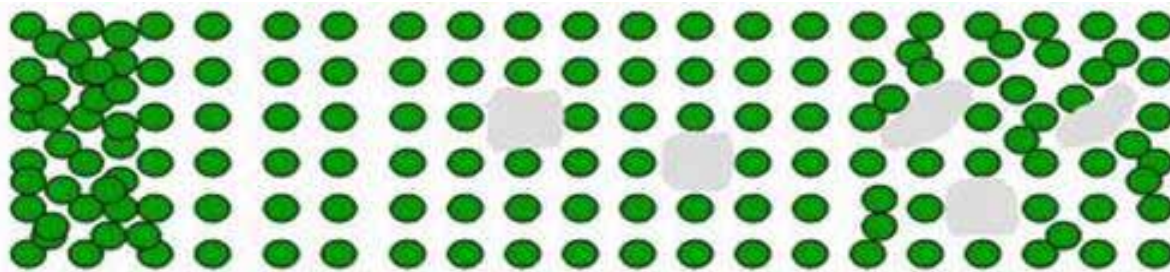
Desired future forest type (esp. site, size classes, and stocking) _____

Desired species to naturally regenerate _____

Desired species to plant (if applicable) _____

Bird's-eye view of desired future forest stand condition (check one)

- | | | | |
|-------------------------------------|--|--|--|
| <input type="checkbox"/> Wild stand | <input type="checkbox"/> Evenly spaced | <input type="checkbox"/> Evenly spaced with openings | <input type="checkbox"/> Variable density spaced with openings |
| <u>Some wildlife</u> | <u>Maximizes growth</u> | <u>Growth + regeneration</u> | <u>Some growth + regeneration + wildlife</u> |



Desired stand structure:



- One canopy layer Two canopy layer Three canopy layer

Stand 3 Description-(From Reconnaissance Data Sheets)

Stand 3 _____ Acres _____ Forest Type _____

Objectives: _____

Current Description (examples include tree species present/forest type, stand age, history, site index, elevation, slope, size class, stocking, etc.): _____

Stand Management Recommendations: _____

Stand 3 Desired Future Stand Condition

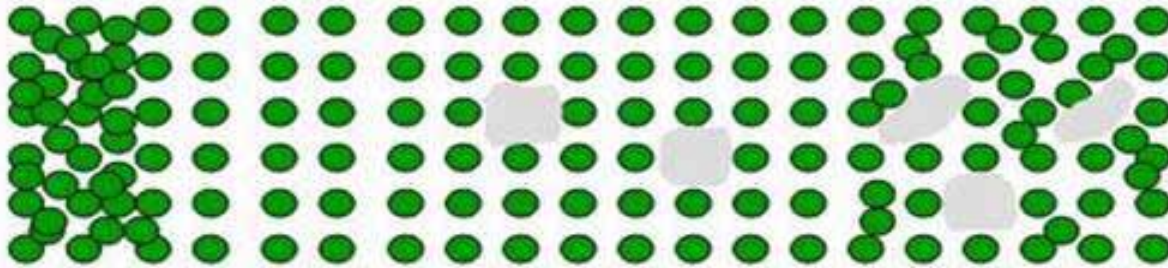
Desired future forest type (esp. site, size classes, and stocking) _____

Desired species to naturally regenerate _____

Desired species to plant (if applicable) _____

Bird's-eye view of desired future forest stand condition (check one)

- Wild stand
 Evenly spaced
 Evenly spaced with openings
 Variable density spaced with openings
- Some wildlife
 Maximizes growth
 Growth + regeneration
 Some growth + regeneration + wildlife



Desired stand structure:



- One canopy layer
 Two canopy layer
 Three canopy layer

Stand 4 Description-(From Reconnaissance Data Sheets)

Stand 4 _____ Acres _____ Forest Type _____

Objectives: _____

Current Description (examples include tree species present/forest type, stand age, history, site index, elevation, slope, size class, stocking, etc.): _____

Stand Management Recommendations: _____

Stand 4 Desired Future Stand Condition

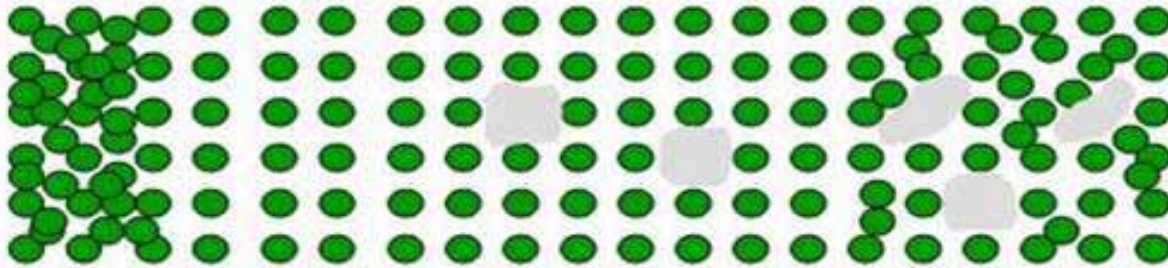
Desired future forest type (esp. site, size classes, and stocking) _____

Desired species to naturally regenerate _____

Desired species to plant (if applicable) _____

Bird's-eye view of desired future forest stand condition (check one)

- | | | | |
|-------------------------------------|--|--|--|
| <input type="checkbox"/> Wild stand | <input type="checkbox"/> Evenly spaced | <input type="checkbox"/> Evenly spaced with openings | <input type="checkbox"/> Variable density spaced with openings |
| <u>Some wildlife</u> | <u>Maximizes growth</u> | <u>Growth + regeneration</u> | <u>Some growth + regeneration + wildlife</u> |



Desired stand structure:



- | | | |
|---|---|---------------------------------------|
| <input type="checkbox"/> One canopy layer | <input type="checkbox"/> Two canopy layer | <input type="checkbox"/> Three canopy |
|---|---|---------------------------------------|

Stand 5 Description-(From Reconnaissance Data Sheets)

Stand 5 _____ Acres _____ Forest Type _____

Objectives: _____

Current Description (examples include tree species present/forest type, stand age, history, site index, elevation, slope, size class, stocking, etc.): _____

Stand Management Recommendations: _____

Stand 5 Desired Future Stand Condition

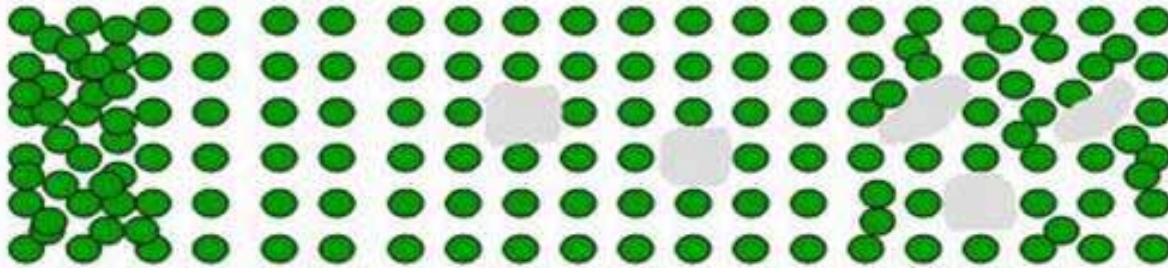
Desired future forest type (esp. site, size classes, and stocking) _____

Desired species to naturally regenerate _____

Desired species to plant (if applicable) _____

Bird's-eye view of desired future forest stand condition (check one)

- Wild stand
 Evenly spaced
 Evenly spaced with openings
 Variable density spaced with openings
- Some wildlife
 Maximizes growth
 Growth + regeneration
 Some growth + regeneration + wildlife



Desired stand structure:



- One canopy layer
 Two canopy layer
 Three canopy

Management of Forest Resources: Carbon Sequestration

(optional) **Carbon sequestration** (for landowners to qualify for carbon markets, they must have a rigorous, detailed forest inventory accomplished by a qualified professional resource manager that is certified to complete such specific inventories and apply them towards carbon credit markets. The Stand Typing and information contained within this plan does not in any way meet basic standards for carbon inventories or market standards)

Forest Harvesting Activities-To be completed prior to timber harvests. Identify which stand(s) you are describing your activities. STAND # _____

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

Harvesting: Describe type of treatment: Even-aged: clearcut, thinning, shelterwood, seed tree, thin/harvest, crop tree; Uneven-aged: group select, single tree select, overstory removal, understory removal, cleaning, weeding, sanitation, salvage, etc. Include time of year, type of harvest; seed tree, multiage, sanitation, etc.

Slash management (leave slash at the stump, slash dispersal, slash height off ground, jackpot pile, whole tree skid, chipping, pulp, large woody debris, nutrient cycling)

Post harvest activities (grading and crowning, ditches, seeding roads and landings, E&S Plan, bridges, weed spray roadsides)

Permits (Please include a list of permits for which you applied, if necessary)

Best Management Practices (is there a wetland or stream within your harvest area, is it properly marked and are the appropriate laws being followed?)

Monitoring (how often do you plan on evaluating harvest units to ensure your overall forest management goals are being met?) _____

Appendix 1

Tax and Business Management (optional)

This section includes a series of statements related to tax and business management that could be included in plans for landowner financial benefit. This information is very helpful to landowners, but is not required.

Property tax – The forest management plan should document the current tax status of the property. Your state might have specific property tax programs that you may be eligible to participate in. Please be aware of the program rules and regulations.

Income tax – Include a statement that timber harvest and other revenue generating activities generally produce a federal and state income tax liability. Tax credits may be available for some management activities.

Estate tax – Include a statement that good estate planning can help to lessen tax liability when passing land to heirs and that landowners should seek good planning and tax advice.

Record keeping – Include a statement that good record keeping can help landowners manage their assets, increase their revenues, and minimize their tax liability.

Land Use – Document the land use classifications of the property from the county land use plan.
