

RESOURCE MANAGEMENT GUIDE

Morgan Monroe State Forest Compartment 02 Tract 05 Property Forester: D. Ramey
Total Acres: 107 Commercial Acres: 107 Date: 01/14/08

Location

Compartment 02, Tract 05 is located in Section 21, Township 11N, and Range 1E of Morgan County. This tract is in Morgan Monroe State Forest located approximately 2 miles north of Rosenbaum road on Hatfield Ridge road.

General Description

MC02T05 is 107 acres of closed-canopy mixed hardwood forest.

History

The current tract was in old compartment 06, tracts 05 and 08. There was a sale in part of this area on July 22, 1974. The harvest volume was 275,200 bd. ft. sold to Crone Lumber Co., the marking forester is unknown.

Property Forester D. Ramey conducted an inventory and completed it on October 25, 2007. Forester Ramey will begin marking tract in 2008.

Landscape Context

The land surrounding this tract is part of Morgan Monroe State Forest. The south eastern corner borders private property (approx. 200 feet). This tract lies to the east of Hatfield Ridge road and north of Rosenbaum road.

Topography, Geology and Hydrology

The topography ranges from ridge tops to steep and moderately steep slopes to bottomlands. Average gradient is 30-60%. Some noted glacial granite stone where located in the bottomland ravines. This tract has three intermittent streams throughout the tract.

Soils

This tract is primarily Berks-Channery complex in 35-80% slopes. Ridge tops are of the Zanesville and Gilpin silt loam soils.

BfG	Berks Channery silt loam	35 - 80% slope	Sandstone-bedrock – 30”
SI – 70	Well drained. Most areas wooded. Soil suited to trees.		
75 Acres	Limited to building sites due to steepness of slope and depth of bedrock.		
Pink	Moderate, severe, moderate, slight.		
GpD	Gilpin silt loam	12 – 18 % slope	Sandstone-bedrock – 36”
SI – 73	Well drained. Most areas wooded. Soil well suited to trees.		
20 Acres	Erosion major hazard. Permeability moderate. Severely limited to buildings and absorption fields.		
Blue	Slight, Slight, Slight, Slight.		
ZaC	Zanesville silt loam	6 – 12% slope	Sandstone-bedrock – 60”
SI – 68	Well drained. Soil used as woodland. Soil well suited to trees.		
12 Acres	Severe limitations to buildings. No basements.		
Yellow	Slight, Slight, Slight, Slight.		

Access

Access to this tract is off Rosenbaum road, north on Hatfield Ridge road, approx 1.5 miles. The western side of the tract runs parallel with Hatfield road. Additional stone is required on the tract haul road.

Boundary

This tract is bounded on the north, south, west and mostly east by State Forest property tracts, the exception is a 200 foot boundary line in the south east part of the tract. The boundary line is clearly marked and is scheduled to be remarked in 3 years.

Wildlife

Wildlife resources are abundant in this tract. The Natural Heritage Database has identified Timber Rattlesnake west and southeast of this tract, also Trailing Arbutus, Black and White Warbler and Worm Eating Warbler to the southwest. Bobcat sighting was identified due east of this tract. Common species also noted include: White tailed deer, wild turkey scratches, various small furbearing mammals and a variety of songbirds.

Tree species composition in this tract is diverse ranging from disturbed site species such as sassafras and black locust on the ridge tops along the road to bottomland hardwoods near the streams. Shagbark hickory and American elm present on this tract will provide excellent bat habitat. Larger mast trees are present and many will remain for wildlife foraging.

The wildlife review has been completed for this tract. This review focuses on wildlife habitat, assisting in creating management activities for the tract. Also inventoried are snags, standing dead trees, and live tree counts to be used with the bat management guideline form. In order to provide some specialized habitat, we do a number of management activities, such as: leave as many snag trees and hickory species as possible.

Communities

The Natural Heritage Database Review for this tract reported no any unusual plant communities. Nearby records include timber rattlesnakes, warblers, trailing arbutus and butternuts.

Recreation

Established in the mid 1990's as a wildlife management area, Hatfield road wildlife project, with cooperation of the Wild Turkey Federation, was completed in 10-96. This area is opened seasonally, April-May and September-December and has been established for seasonal use for recreational purposes and also serves as an area for school groups to visit and learn about forest management activities. This tract is very accessible to the public and receives a great amount of hunting pressure during hunting seasons. In the spring many people utilize the area hunting mushrooms.

Cultural

This tract is protected from wildfire by aerial surveillance during fire seasons and has a well-maintained multi-purpose fire road on its eastern boundary. Being close to private landowners there is a good relationship that supports fire control measures. No cultural areas were noted during the inventory.

Tract Prescription and Proposed Activities

The field inventory was conducted In October 2007. The inventory yielded the following information:

Total Tract Acreage	107 acres	Present Volume per Acre	8,747.5 bd. ft.
Basal Area per Acre	134.9 sq. ft.	Harvest Volume per Acre	3,778.3 bd. ft.
Number Trees per Acre	181.8	Residual Volume Per Acre	4,969.2 bd. ft.
Stocking Percentage	112 %	Average Tree Size	11.8" Diameter

This tract received a harvest in 1974. The current inventory is this only information activity with the exception of road improvements done in the mid 1990's in cooperation with the Wild Turkey Federation. This tract is currently in a Fish and Wildlife Management area as established in the mid 90's.

Species available for harvest consist of red, black, scarlet and white oaks, yellow poplar, American beech, hickories and large tooth aspen. The trees are of large sawtimber and some quality sawtimber. The stocking level is 112% and should be thinned with care not to reduce the stocking level below 70%. An intermediate harvest and several group selection cuts is recommended for this tract. The harvest will be followed up with a proper close out according to Best Management Practices. Timber stand improvement to complete in early successional openings and removal of vines and girdling of cull trees to promote Indiana Bat populations when found. Ridgetop roads need to be improved following the sale.

Forest Condition

This tract has been selected as a potential harvest area for the fiscal year of 2008-09. The primary volume comes from REO (19%), YEP (16%), BLO (15%) and SCO (14%). The overall quality of the sawtimber is good. Inventory results indicate a total volume of 8,747.5 bd. ft. per acre. The volume harvestable is 3,778.3 bd.ft. per acre and leave volume as 4,969.2 bd. ft. per acre. The tract was estimated to be 112% stocking. Given the information provided, this tract is adequately stocked and could benefit from selective harvest.

Proposed Activities Listing

Timber Harvest planned in 2008-09 fiscal year.

Timber Stand Improvement to be completed after timber sale closeout.

Re-Inventory work scheduled for 2028.

Attachments:

The following items are stored in the tract file at the property office:

- 1 A property and topography map of the tract.
- 2 A map showing the soil types in the tract.
- 3 A stocking guide chart.
- 4 Natural Heritage Database Review map.

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Topographic Map – Morgan-Monroe C02, T05

