

RESOURCE MANAGEMENT GUIDE

Morgan Monroe State Forest Compartment 12 Tract 08 Property Forester: D. Ramey
Total Acres: 98 Commercial Acres: 88 Date: 11/24/08

Location

Compartment 12, Tract 08 is located in Section 12, Township 10N, and Range 1W of Monroe County. This tract is in Morgan Monroe State Forest located west of Old State Road 37 and north of Farr in the Hindustan quadrangle.

General Description

MC12T08 is 98 acres of closed-canopy mixed hardwood forest.

History

The SE portion of the tract has approx. 4 acres of white and Virginia pine planted in 1938. Tract (was tract 7) quickcruised in 1971. This tract had three sales in 1974. A white pine sale of 4415 bd.ft. sold 6/10/74, a small sale was a training area w/ 23,300 bd.ft. sold 5/20/74 and another covered the majority of the tract approx. 119,440 bd.ft. Inventory completed by Vadas in 1989. Road work through this tract to access M1207 was completed in 1999. Property Forester D. Ramey conducted an inventory and completed it on June 2008. Marking to begin in late 2008.

Landscape Context

The private land to the south and west of this tract there has had a significant change in land use, currently residential/yards and pasture property. There is State property to the north M1207 and to the east M1206.

Topography, Geology and Hydrology

The topography ranges from ridge tops to steep and moderately steep slopes to bottomlands. Average gradient is 30-60%. This tract has one intermittent stream through the center of the tract.

Soils

This tract is primarily Berks-Weikert complex in 25-75% slopes. Ridge tops are of Crider silt loam soils.

BkF Berks-Weikert complex 25 – 75% slope Sandstone-Bedrock – 38”
SI – 70 Well drained. Most areas woodland. Soil suited to trees.
63 Acres Severely limited to dwellings with basements due to slope and bedrock.
Yellow Moderate, severe, moderate, slight.

CrC Crider silt loam 6 – 12% slope Subsoil – 58” thick
SI – 88 Well drained. Many areas in cultivated crops. Soil well suited to trees.
21 Acres Moderately limited to buildings due to steepness of slope.
Purple Slight, Slight, Slight, Slight.

BdB Bedford silt loam 2 – 6% slope Fragipan at depth of 20-30”
SI – 75 Moderately well drained. A few areas in woodland. Soil suited to trees.
9 Acres Moderately limited to buildings because of wetness, shrinking and swelling.
Red Slight, Slight, Slight, Slight.

WmC Wellston Gilpin silt loam 6 – 20% slopes Bedrock – 46”
SI – 71 Well drained. Many areas in woodlands. Well suited to trees. Limited for
5Acres building sites. Severe hazard to erosion due to silty loam soil content.

Access

Access to this tract is good. Farr road on the south side of the tract provides the best access. An old haul road is still functional but will require some clearing. Additional stone is required on the tract's haul road.

Boundary

This tract is bounded on the north and east by State Forest property tracts. To the west is old state road 37 and to the south by private property owners. The boundary line is clearly marked, completed in fall 2007. The property line was surveyed in 1989.

Wildlife

Wildlife resources are abundant in this tract. The Natural Heritage Database has identified Timber Rattlesnake north and east of this tract, also Hooded Warbler and Worm Eating Warbler to the north. A Bobcat sighting was identified due southeast 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 determining management activities for the tract. Also inventoried were snags, standing dead trees, and live tree counts that were used to complete the Indiana 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 unique plant communities. Nearby records include timber rattlesnakes, hooded warblers and worm eating warblers.

Recreation

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 June 2008. The inventory yielded the following information:

Total Tract Acreage	98 acres	Present Volume per Acre	9,145.0 bd. ft.
Basal Area per Acre	111.7 sq. ft.	Harvest Volume per Acre	4,026.0 bd. ft.
Number Trees per Acre	114	Residual Volume Per Acre	5119.0 bd. ft.
Stocking Percentage	93 %	Average Tree Size	12.6" Diameter

This tract received 3 harvests in 1974. The current inventory:

Species available for harvest consist primarily of black oak, yellow poplar, white oak, american beech, hickories and black locust. The trees are of large sawtimber and some quality sawtimber. The stocking level is 93% and should be thinned with care not to reduce the stocking level below 70%. An intermediate harvest and several group selection cuts are recommended for this tract. The harvest will be followed up with a proper close out according to Best Management Practices. Timber stand improvement is planned to complete group selection openings, removal of vines and girdling of trees to promote Indiana Bat populations.

Forest Condition

This tract has been selected as a potential harvest area for the fiscal year of 2008-09. The primary volume comes from BLO(23%), YEP(20%), WHO(11%) and WHP(10%). The overall quality of the sawtimber is good. Inventory results indicate a total volume of 9,145 bd. ft. per acre. The volume harvestable is 4,026 bd.ft. per acre and leave volume as 5,119 bd. ft. per acre. The tract was estimated to be 93% stocking. Given the information provided, this tract is adequately stocked and could benefit from a mostly 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 on file in 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.