

## RESOURCE MANAGEMENT GUIDE

State Forest: Morgan-Monroe

Compartment: 10 Tract: 16

Forester: D. Potts

Date: 7/14/2008

Management Cycle End Year: 2028

Management Cycle Length: 20 years

### Location

Section 10 Township 10N, Range 2W in Monroe County, Indiana. Tract is located north of Burma Road and west of State Road 37 North. This area is commonly referred to as compartment 10 tract 16 of Morgan-Monroe State Forest. It is about ten miles south of Martinsville, IN.

### General Description

This tract contains 65.3 acres of which 65.3 are commercial forestland. The general cover type is hardwood forest.

### History

The tract management file has only one record of forest management within this tract, which was a 1972 timber sale. This harvest was performed before the construction of State Road 37 North. The Indiana Department of Natural Resources, Division of Forestry, Bill of Sale indicated that 36200 bd. ft. in 290 trees was sold to Dan Cramer of Martinsville, IN. The most recent activity was a forest inventory performed in July of 2008.

### Topography, Geology and Hydrology

This tract is situated on a main east to west ridge that is located within the middle of the tract. Burma Road follows the ridge from the east tract boundary to the west tract boundary. To the north and south of Burma Road there is a main north to south ridge that runs the length of the tract. North of Burma Road the tract is composed of moderate to steep slopes. South of Burma Road the tract contains moderate and gentle slopes. The majority of the northern portion of the east to west ridge drains into unmapped intermittent drainages, which then flow into Bryant Creek and eventually into the White River and lies within the Bryant Creek watershed. The southern portion of tract flows into a mapped intermittent drainage, which flows into Indian Creek and eventually into the White River and lies within the Bean Blossom Creek-Indian Creek watershed.

### Soils

Berks-Weikert complex (BkF) 25-75% slope. 94% of the tract. Some harvest limitation on steeper slopes.

Wellston-Gilpin silt loam (WmC) 6-20% slope. 6% of the tract. Minimal harvest limitations due slope.

### Access

Access to this tract is directly off of Burma Road, which runs through the middle of the tract. The main north to south ridge provides access within the tract for management activities. Skid trails and haul roads to the north exist, but will need to be updated before

any harvest operation can occur. There are currently no haul roads or skid trails within the tract to the south of Burma Road. However, before harvest operations can occur skid trails and haul roads will need to be constructed.

### **Boundary**

The eastern tract boundary is Indiana State Road 37. To the north and west the tract boundary is an intermittent drainage. The southern boundary is also a Morgan-Monroe State Forest property boundary. Tract boundaries will be identified before any harvest operation can occur. Also, property boundaries will be updated before harvest operations can occur.

### **Wildlife**

Wildlife resources in this tract are plentiful. This tract supports many woodland species including, but not limited to: White-Tailed Deer, Wild Turkey, Eastern Grey Squirrel, Fox Squirrel, chipmunks, and various songbirds.

### **Communities**

The Natural Heritage Database does not indicate any species or communities of concern within the tract or the surrounding area.

### **Recreation**

This tract has many possibilities for recreation uses. Some of the more common recreation that can be expected within the tract and surrounding area include: jogging, hunting, hiking, birding, traversing (with a compass and map), wildlife watching, meditation, mushroom hunting, tree identification, and photography.

### **Cultural**

Cultural resources may be present on the tract but their location is protected. If such resources were discovered the location would be protected. Adverse impacts to significant cultural resources would be avoided during any management or construction projects, should they be discovered.

### **Tract Silvicultural Prescription**

The predominant timber type within this tract is oak-hickory-yellow-poplar. Dominant species composition within the tract is as follows white oak 28%, black oak 21%, yellow-poplar 13%, hickory 9% (includes shagbark, pignut and bitternut hickory) sugar maple 9%, and red oak 8%. According to the most recent inventory data the estimated tract volume per acre is 6431 bd ft/acre. The data estimate for harvest is 3260 bd ft/acre with a leave volume of 3180 BF/acre. Basal area for the tract is 102.3sqft/acre. Average number of trees per acre is 381. According to the hardwood stocking guide, the tract is 100% stocked. Understory regeneration within the tract is dominated by American beech and sugar maple. This tract will be managed under uneven-aged management, meaning that singletree selection and group selection will occur throughout the tract. Based on the current condition a harvest is recommended to improve the quality of the stand and to maintain the oak-hickory-yellow-poplar composition. Opening(s) less than ten acres in size will provide regeneration of shade intolerant species. These opening(s) will be

located within the tract as determined by the marking forester. However, along the main north-south ridge in the tract there is an area of mature fire-damaged oak that would benefit from said opening. Throughout the entire tract single tree selection will focus on removing damaged and mature trees, to provide for the growth of younger and healthier trees. This tract is adjacent to Indiana State Road 37 and therefore requires a visual enhancement area (VEA) along its eastern tract boundary. Singletree selection will occur within the VEA, but care will be taken to maintain aesthetics from Indiana State Road 37. Timber stand improvement (TSI) will occur during pre harvest and post harvest operations to control grapevines and for the removal of understory vegetation in regeneration openings. Also, post harvest TSI will release crop trees by girdling or removing competing trees.

### **Tract Proposed Activities**

Boundary marking will occur in the summer of 2008. Tract map with layout of yards, skid trails, and haul roads will be submitted for a Division of Historical Preservation and Archaeology (DHPA) review. Timber marking will occur in the fall of 2008 and winter of 2008/2009. Roadwork will begin as soon as DHPA approval is granted. As timber is marked grapevines will be cut as part of pre-harvest TSI. Upon sale approval, the timber will be put up for sale in 2009 and will have a contract length of two years. Post harvest TSI will be performed after completion of harvest operations. A forest inventory will occur in the year 2028.

Forest management activities will have an immediate impact on overstory vegetation, as many trees will be removed from the stand. However, the forest canopy will respond quickly to utilize the available space and light provided by the canopy gap. A direct impact to vegetative will occur in log yards, skid trails, and haul roads where vegetation will be removed and bare mineral soil will be exposed. This type of impact will be short lived as log yards and water bars will have seed and straw applied to prevent soil loss. The skid trails and haul roads will quickly re-vegetate after harvest operations cease. Little to no impact to water quality should be noticed as the use of Best Management Practices (BMP) helps to prevent soil loss. Recreation use of the tract will be limited while harvest operations are occurring; this measure is taken to provide for the safety of recreation users and timber harvest operators. Wildlife resources will see little to no impact as a result of harvest operations. In fact, the regeneration openings will promote species that thrive in early successional habitat, such as ruffed grouse.

## **Proposed Activities Listing**

### *Proposed Management Activity*

### *Proposed Date*

Boundary Marking	FY 2008/2009
DHPA	FY 2008/2009
Timber Marking	FY 2008/2009
Timber Sale	FY 2008/2009
Road Work	FY 2008/2009
Timber Sale Completion	FY 2010/2011
Post Harvest TSI	FY 2010/2011
Inventory	FY 2028/2029

### **Attachments (On file in Property Office)**

Topographic map with tract subdivisions  
Aerial photo with tract subdivisions  
Soil type map of area  
Tcruise reports

**To submit a comment on this document, click on the following link:**

[http://www.in.gov/surveytool/public/survey.php?name=dnr\\_forestry](http://www.in.gov/surveytool/public/survey.php?name=dnr_forestry)

You **must** indicate “Morgan-Monroe C10 T16” in the “Subject or file reference” line to ensure that your comment receives appropriate consideration. Comments received within 30 days of posting will be considered.