

## RESOURCE MANAGEMENT GUIDE

Yellowwood State Forest

Compartment 9

Tract 5

Total Tract acreage: 53 acres Commercial Acres: 53

Date: 11/17/08

Forester: L. Burgess

### Location

Located in section 36 Township 9N, Range 1E of Brown County. The tract is located off Scarce O'Fat Road and is surrounded by state forest.

### History

May 1972 Quickie cruise

March 1985 Tract inventory and management guide

Feb. 1987 Haul road and landing

Feb. 1989 Timber sale 101,482 bd.ft. in 401 trees, 69 culls. Sold to Indiana Timber & Tie Co. for \$26,882.00 Forester R. Unversaw

May-July 1989 Timber harvest followed by firewood cutting

Sept. 1989 installed water bars and graded skid trails. Seed/mulch skid trails and landings

Jan 1990 TSI marked

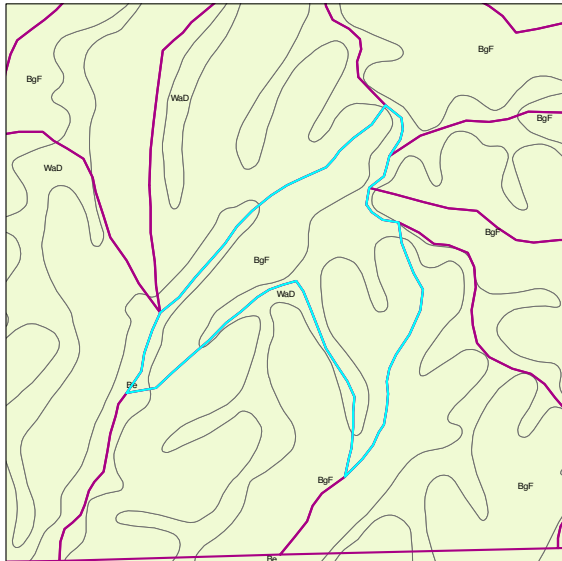
March 1990 Planted Alder, Autumn olive and lespedeza around landing

Jan 1991 TSI completed

Sept. 2008 Tract inventory. Forester L. Burgess

### Topography, Geology and Hydrology

The tract is comprised of about 25% ridgetop and the remaining acreage is primarily east and west facing slopes, average steepness of 25%. The western and southeastern sections of tract drain into mapped intermittent streams within the North Fork Salt Creek-Lower Schooner Creek watershed into Lake Monroe watershed.



### Soils

Berks-Trevlac-Wellston complex (**BgF**) 20 – 70 percent slope. Severe limitations noted for logging due to slope. Comprises ~60% of tract acreage.

Wellston-Berks-Trevlac complex (**WaD**) 6 – 20 percent slope. Slight to moderate limitations. Comprises < 40% of tract acreage.

Beanblossom channery silt loam (**Be**) Nearly level and gently sloping. Slight limitations; moderate flood risk. Comprises 2% of tract acreage, and located on in the bottoms.

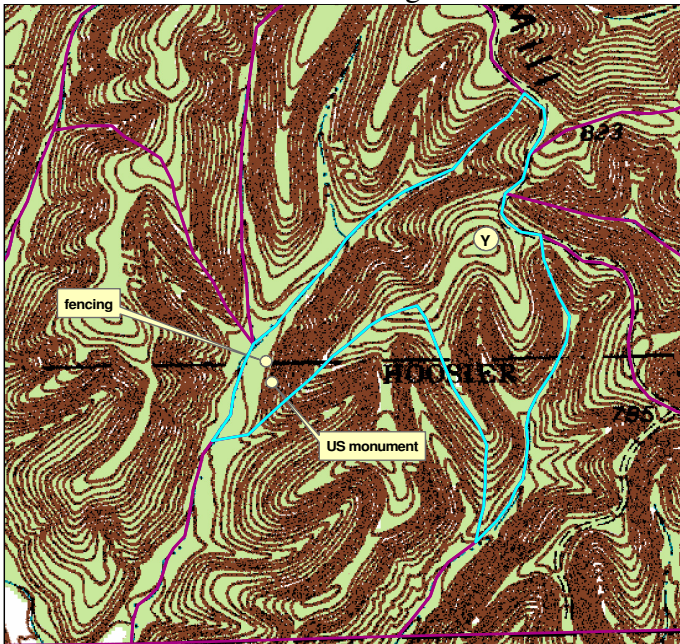
#### **Access**

Good access off Scarce O'Fat Road from the south. Hauling access is best from the north onto Tulip Tree Rd. off Hwy 45.

#### **Boundary**

Tract is surrounded by state forest acreage. The northwestern portion of tract is evident by the Scarce O'Fat Rd. and the eastern edge is a mapped intermittent stream.

A "US" concrete monument was noted in southwestern portion of tract (see map) as well as some old barbed-wire fencing.



#### **Wildlife**

Wildlife resources in this tract are abundant. Common species which are present include: Squirrels, white tailed deer, turkey, various small furbearing animals, and a variety of songbirds. An official wildlife review was completed on the tract. This review focuses on wildlife habitat, looking at what is present in the tract and what can be created through management activities. The inventory for this tract included recording structural habitat features at each data point; these records include snag (dead, standing tree) and cavity tree counts. The result of this collected data for snag counts is included on the bat guidelines form for this tract.

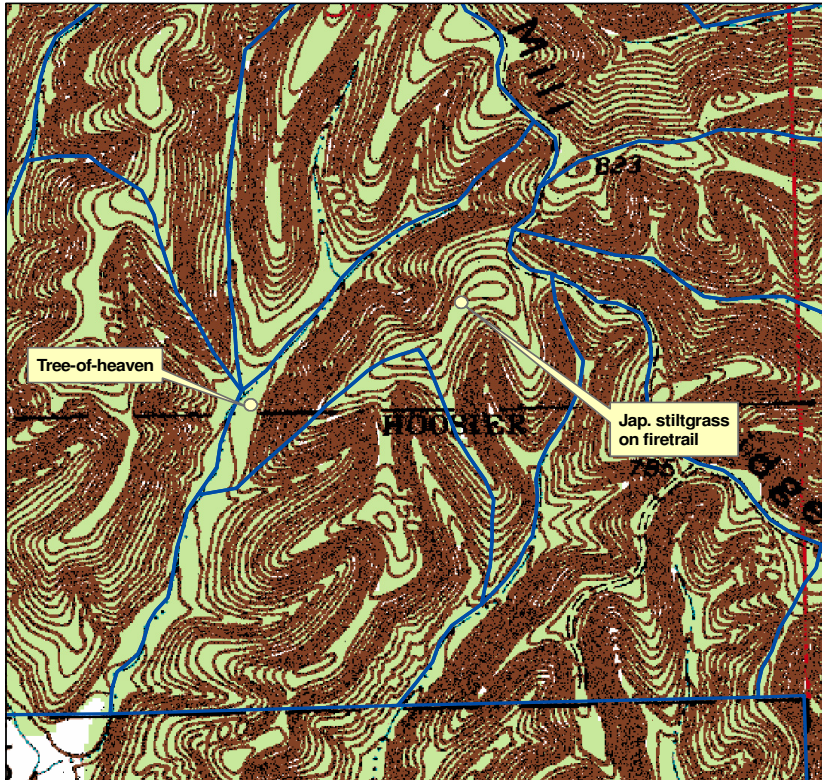
#### **Communities**

A Heritage database review was submitted for this tract. No RTE or species of special concern were noted within tract on the review. Timber rattlesnake, Butternut and Great St. John's-wort were noted within the Heritage database review in nearby acreage.

#### **Invasives/Exotics**

Japanese stilt grass (*Microstegium vimineum*) noted within the tract along the central skid trail. This should be treated in summer prior to any road improvements or logging

activity and will also be noted for treatment post-harvest. Seeding of the skid trails after disturbance should reduce the movement of this invasive. Although Autumn olive and Lespedeza were planted around the log yard after harvesting in 1990 these species were not noted during the inventory. Tree-of-heaven was discovered during July 2009 in southwest portion of tract. This species will require chemical treatment and annual monitoring to ensure complete eradication.



### **Recreation**

This tract is used for hunting.

### **Cultural**

No sites noted within the tract during inventory.

### **Tract Prescription and Proposed Activities**

Harvest Volume est. 2,280 bd.ft./acre  
Leave Volume est. 3,830 bd.ft./acre  
Total tract volume est. 6,110 bd.ft./acre.

Inventory results list BLO, YEP and WHO (in descending order) as the top harvest volume species. Top volume leave species are WHO, BLO and REO.

Overall this tract has mixed hardwood composition. The inventory results indicate this tract would sustain and benefit from a harvest this cycle. Recommendation is for an intermediate, improvement harvest utilizing single-tree selection over most acreage with 1 or 2 regeneration openings, averaging 1 -1.5 acres in size. These openings will be included in post-harvest TSI. Two sites were noted during inventory as possible

regeneration areas; one would release present oak saplings, the other would likely regenerate YEP stand.

The inventory was based on 1 point of data collected for every per 2.2 acres within the tract.

The marking objective will be the removal of mature/over-mature stems, as well as those of low quality in an effort to improve the overall health, vigor and composition of the stand. The reduction of stocking levels should provide space for pre-selected crop trees to move forward into the next cutting cycle. Species composition will likely become more diverse and less susceptible to insect and disease infestation a common problem with homogeneous stands. These management techniques will improve the overall health, vigor and quality of the residual stand, while utilizing stems dropping out due to natural mortality, overstocking or maturity. TSI should follow to reduce stocking in some areas of high basal area with pole size stems and release crop trees not successfully released during the harvest.

Wildlife will benefit from this harvest as well. Additional sunlight penetrating the forest floor will simulate the development of new ground flora, subsequently increasing nesting and foraging habitat. This is essential for both game and non-game species as well as continued forest development. Although the inventory data analysis indicated a deficiency in snag count the on-the-ground observance of snags indicated several snags in the large diameter class. These snags were within sight from the data collection point yet did not register to be tallied. Post-harvest TSI will increase snags per acre while diversifying diameter distributions of both snags and growing stock trees.

#### **Proposed Activities Listing**

Timber marking, harvest and TSI planned in 2009/2010.

TSI will include treatment of any invasive exotics noted/discovered.

Stand Re-inventory work 2028

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**[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 “Yellowwood C9 T5” 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.