

**DRAFT
RESOURCE MANAGEMENT GUIDE**

Yellowwood State Forest

Compartment **8** Tract **13**

Total Tract acreage: 71 acres Commercial Acres: 0

Date: 11/26/08

Forester: L. Burgess

Location

Located in section 24 Township 9N, Range 1E of Brown County. The tract is located off Scarce O'Fat Road and is surrounded by state forest.

History

1976 TSI of 48 acres

April 1976 Timber inventory: Leave 3,074 bf/ac, Harvest 2,378 bf.ac, Total 5451 bf/ac

1977 White pine planting

Feb 1987 Boundary marking

June 1988 Timber inventory & mgmt guide Leave 4,301 bf/ac, Harvest 2,702 bf.ac, Total 7,003 bf/ac

March 1989 Added 3 acres to tract from land purchase

April 1989 Timber sale 43,158 bd.ft. in 136+25 trees, 5 culls

Dec. 2006 This tract was selected as a portion of the Forest Research Core Area within a Control Unit (#3) for Purdue Hardwood Ecosystem Experiment (HEE); a 100-year project of studying management affects on forest resources. **As a result of being within a Control Unit this tract is not open to any management operations for 100 years.**

Topography, Geology and Hydrology

The tract is comprised of about 15% ridgetop with remaining acreage split between east/northeast and south facing slopes, average steepness of 15%. The eastern and southern sections of tract drain into mapped intermittent streams within the North Fork Salt Creek-Jackson Creek watershed.

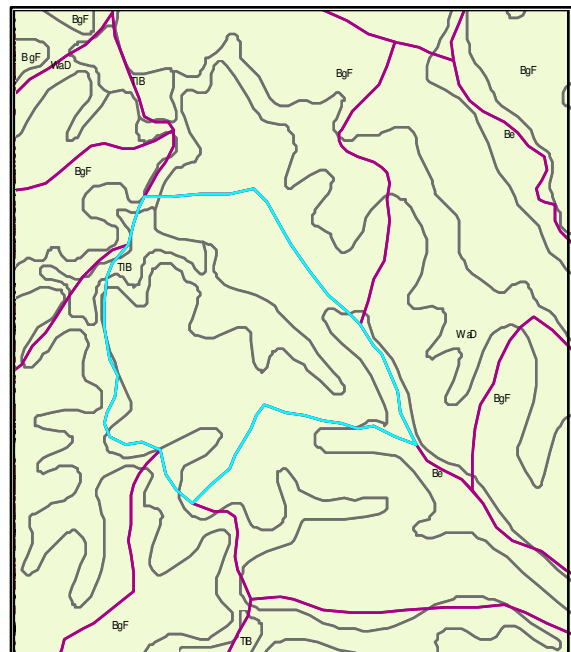
Soils

Berks-Trevlac-Wellston complex (**BgF**) 20 – 70 percent slope. Severe limitations noted for logging due to slope. Comprises 73% of tract acreage.

Wellston-Berks-Trevlac complex (**WaD**) 6 – 20 percent slope. Slight to moderate limitations. Comprises 17% of tract acreage.

Beanblossom channery silt loam (**Be**) Nearly level and gently sloping. Slight limitations; moderate flood risk. Comprises 5% of tract acreage, and located on in the bottoms.

Tilsit silt loam (**TIB**) 2 – 6 percent slope. Slight limitations. Comprises 5% of tract acreage, located in the northwest upland ridge.



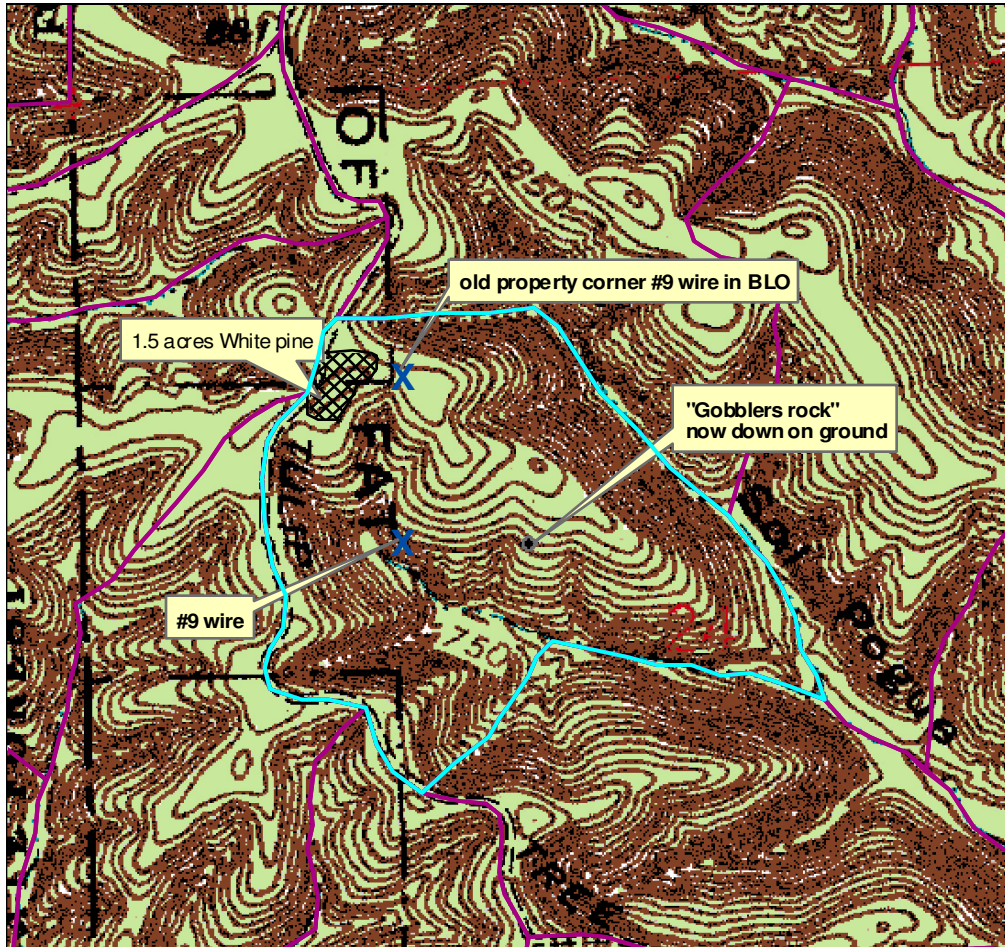
Access

Good access off Scarce O'Fat Road from the south.

Boundary

Tract is surrounded by state forest acreage. The western boundary is Scarce O'Fat Rd. and the eastern edge is a mapped intermittent stream.

The old property corner was located by faded orange paint on a BLO and #9 wire running N/S (see map). Another tree with #9 wire was found about 230 yards south of this corner.



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 ecological review was completed on the tract. This review focuses on wildlife habitat as well as exotic species present in the tract and what can be created and controlled 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 results of this collected data for snag counts are included on the bat guidelines for this tract utilizing the tables below. Additional wildlife data will be collected and analyzed through the next 100-years as a part of the HEE. This will allow for comparison of data from tracts throughout the forest that will continue active management. For more information refer to HEE information available on the internet.

Legacy trees*	Maintenance level	Inventory	Available above Maintenance
11" + DBH	639	685	46
20" + DBH	213	132	-81

*Species include American elm, Bitternut hickory, Cottonwood, Green ash, Red oak, Post oak, Red elm, Shagbark hickory, Shellbark hickory, Silver maple, Sugar maple, White ash and White oak

Snags (all species)	Maintenance level	Optimal level	Inventory	Available above Maintenance	Available above Optimal
5" + DBH	284	497	505	221	-8
9" + DBH	213	426	278	65	-148
19" + DBH	35.5	71	9	-26	-62

Cavity trees (all species)	Maintenance level	Optimal level	Inventory	Available above Maintenance	Available above Optimal
7" + DBH	284	426	64	-220	-362
11" + DBH	213	284	64	-149	-220
19" + DBH	35.5	71	13	-23	-58

Communities

A Heritage database review was submitted for this tract. Timber rattlesnakes were noted within the tract on the review. Timber rattlesnake, bobcat, N. leopard frog and Indiana bat were noted within the Heritage database review in nearby acreage.

Invasives/Exotics

No invasives were noted during the inventory, however the tract history noted planting autumn olive, and black alder around the landings in 1988.

Recreation

This tract is used for hunting.

Cultural

No sites noted within the tract during inventory.

Tract Prescription and Proposed Activities

These numbers are supplied for reference only, as no active management will occur within this tract:

Harvest Volume est. 3,510 bd.ft./acre

Leave Volume est. 3,320 bd.ft./acre

Total tract volume est. 6,830 bd.ft./acre.

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

This tract contains many down & dead or defective trees due to past fire damage. With the current composition the oak/hickory component will largely be replaced by maple/beech. The exception lies in some of the portions which contain larger openings due to excessive windthrow and therefore have a better chance of regenerating oak/hickory as some oak regeneration was noted during inventory. As previously mentioned this tract will not undergo any management activities during the research study period.

The inventory was based on 1 point of data collected for every per 3 acres within the tract.

Proposed Activities Listing

Continued monitoring of species composition by HEE
Stand Re-inventory work 2028

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You **must** indicate State Forest Name, Compartment Number and Tract Number 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.