
Ohio Division of Forestry



Mission Statement: Promote and apply management for the sustainable use and protection of Ohio's private and public forestland.

Vision Statement: The Ohio Division of Forestry envisions healthy, diverse forests valued for the life-sustaining benefits they provide now and forever.

Purpose Statement: Manage state forests to maintain forest health, a sustained yield of forest products, and promote diverse forest habitats across the landscape, while considering a multiple use mandate. The division strives for state forests to be the best example of the benefits resulting from long-term forest management

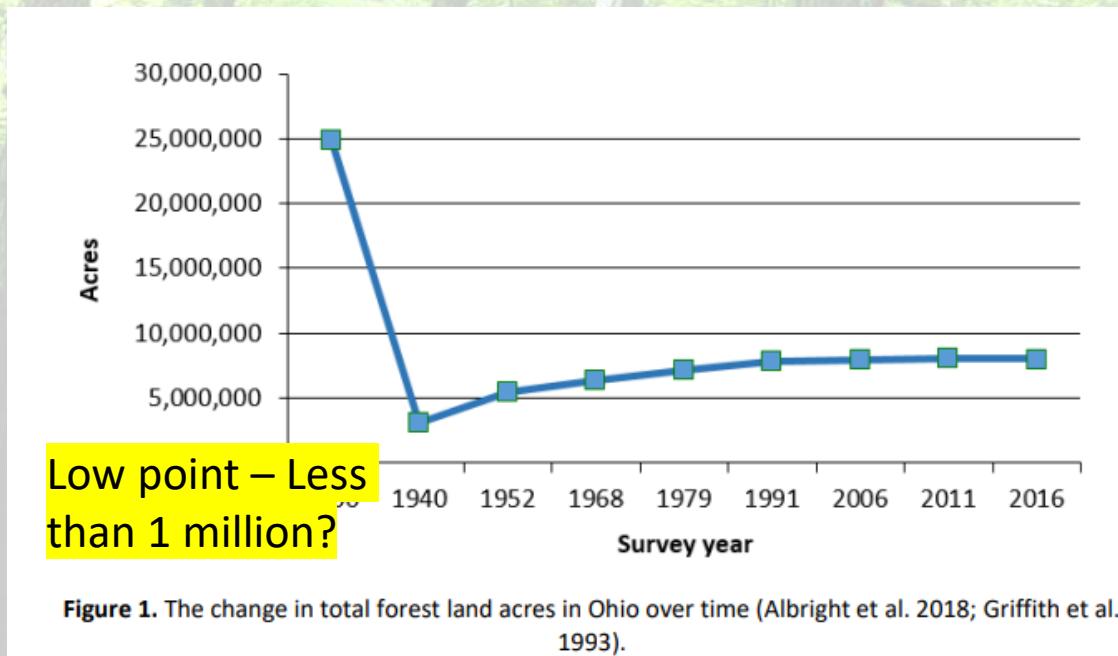


Shawnee State Forest (West Portsmouth)

State Forests: Mixed Use!!



State Forest History



- 1906 – DOF created as part of Ohio Agricultural Experiment Station
(1911 Weeks Act)
- 1915 – General Assembly appropriated funds for SF acquisitionn. Limited to \$10/acre
- 1916 – Waterloo & Dean SF acquired
- 1922 – Shawnee SF acquisition began
Depression era programs – Resettlement act, WPA, CCC
- 1949 – ODNR created, state parks transferred







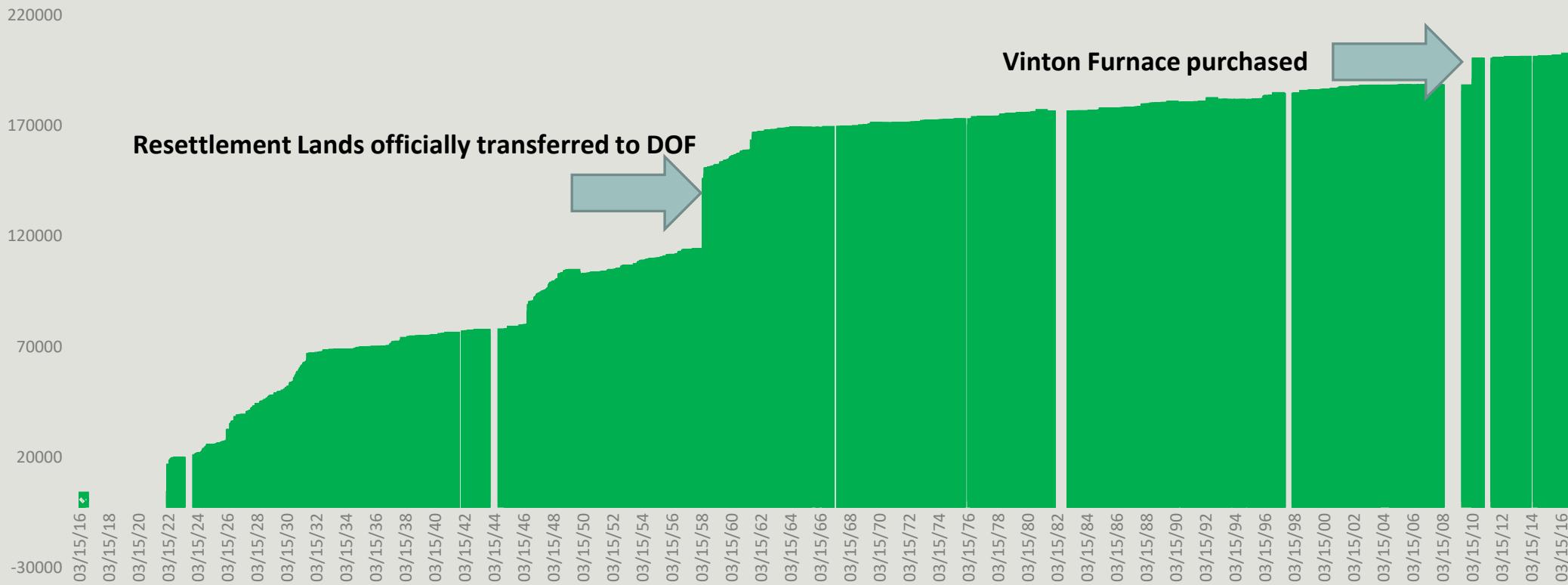


Ohio Department of
NATURAL RESOURCES



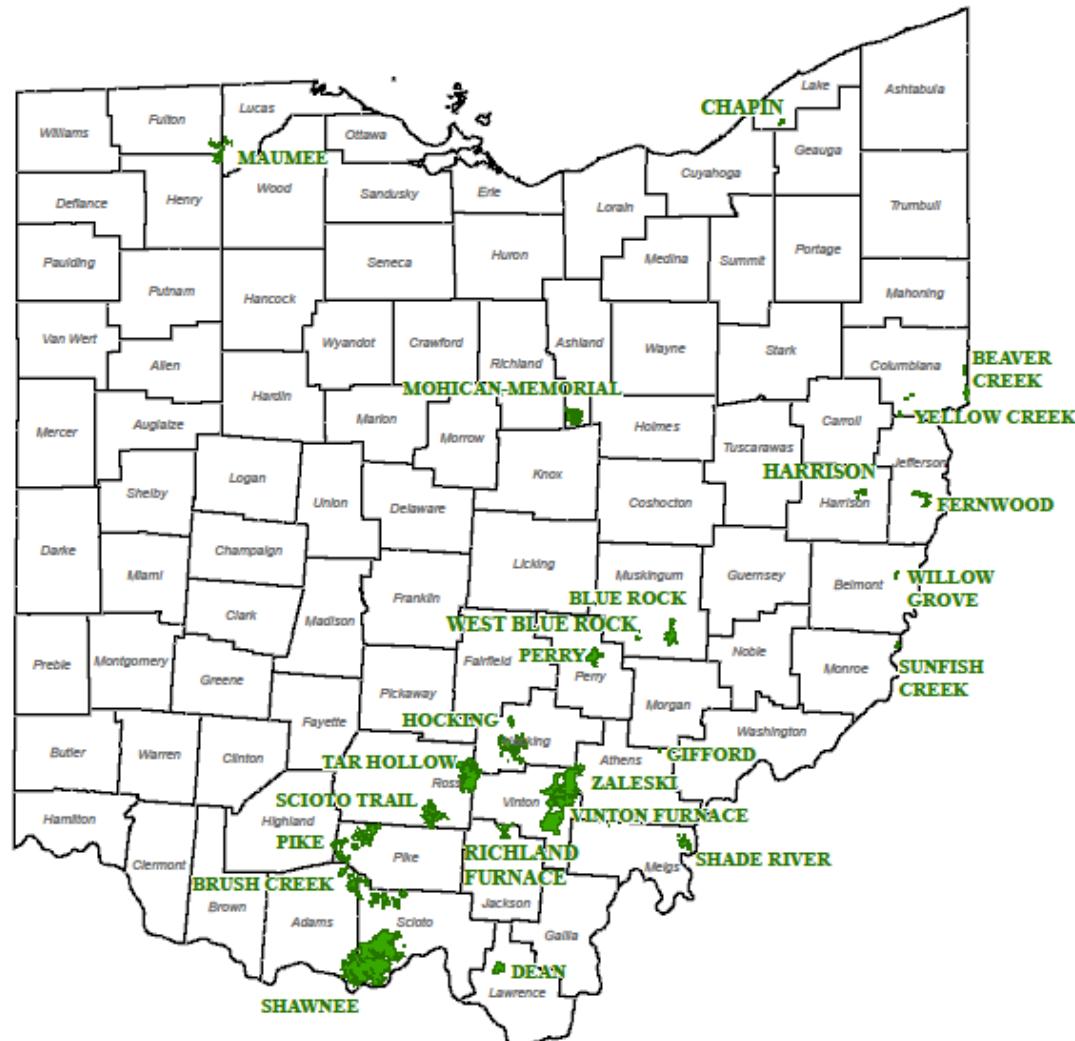


Ohio State Forests – Cumulative Acres

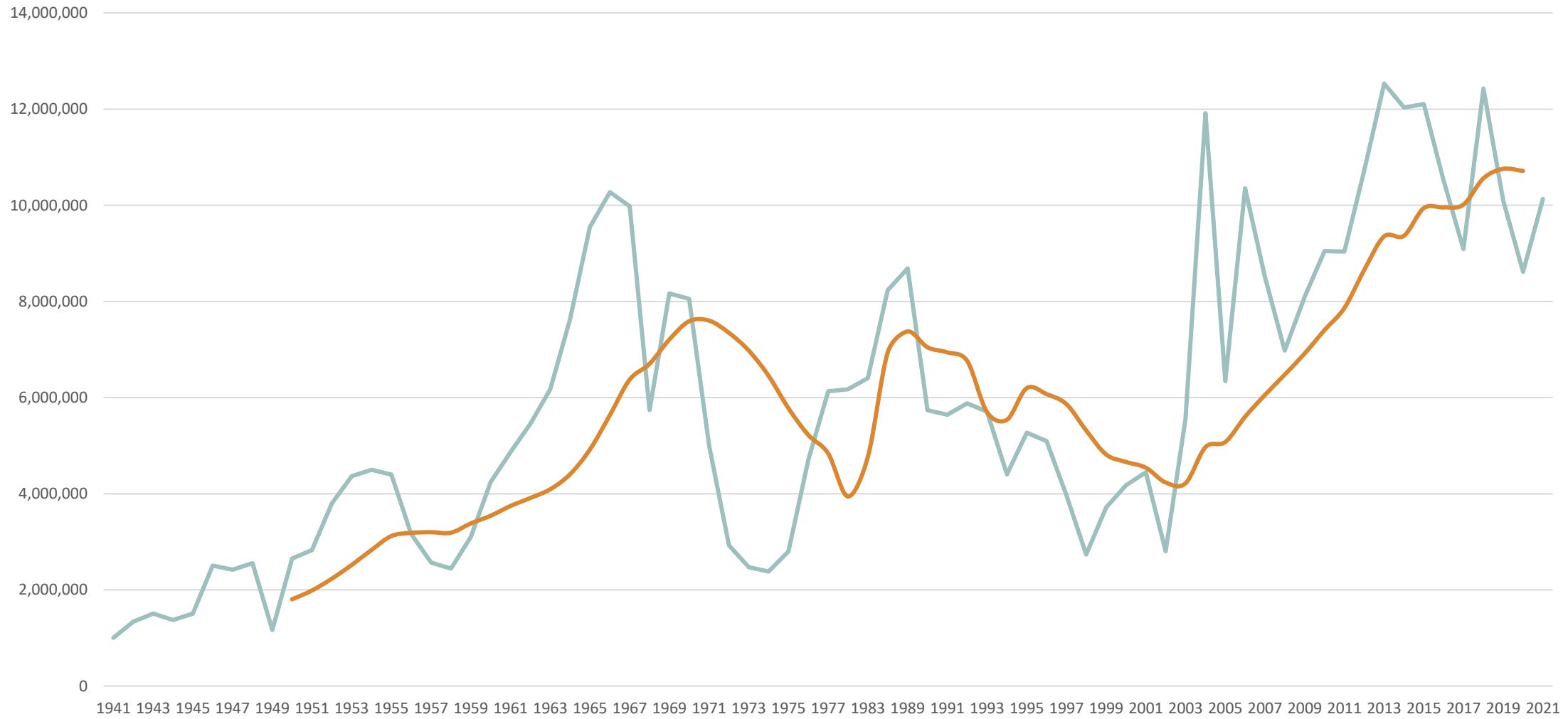


Ohio's State Forests

Ohio Division of Forestry, 8/12/2020



Ohio's SF - Total BF Harvest



State Forest Management Goals

Managing and Promoting Oak-Hickory Forests

- Enhancing oak regeneration
- Favoring oak forests for investment
- Preserving oak-hickory components when regen is not feasible

Protect RTE species and rare communities

- Protecting HCVF designated areas
- Assessing all areas for RTE species, avoiding and mitigating as necessary

Maintaining and promoting diverse habitats

- Maintain a sustainable distribution of stand ages
- Increase early successional habitat
- Manage HCVF's for future old growth

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Ohio Department of Natural Resources
Division of Forestry

**Forest Management Plan
for State Forests**

2021-2031



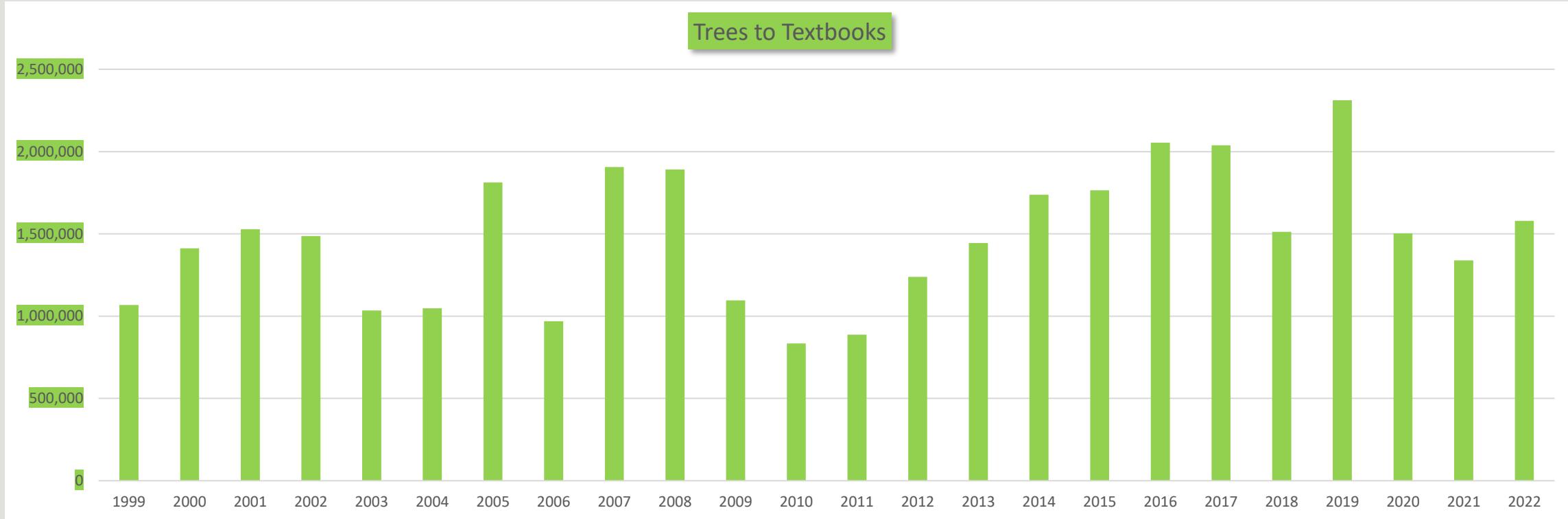
Reviewed and Approved By:

Dal R. Baker

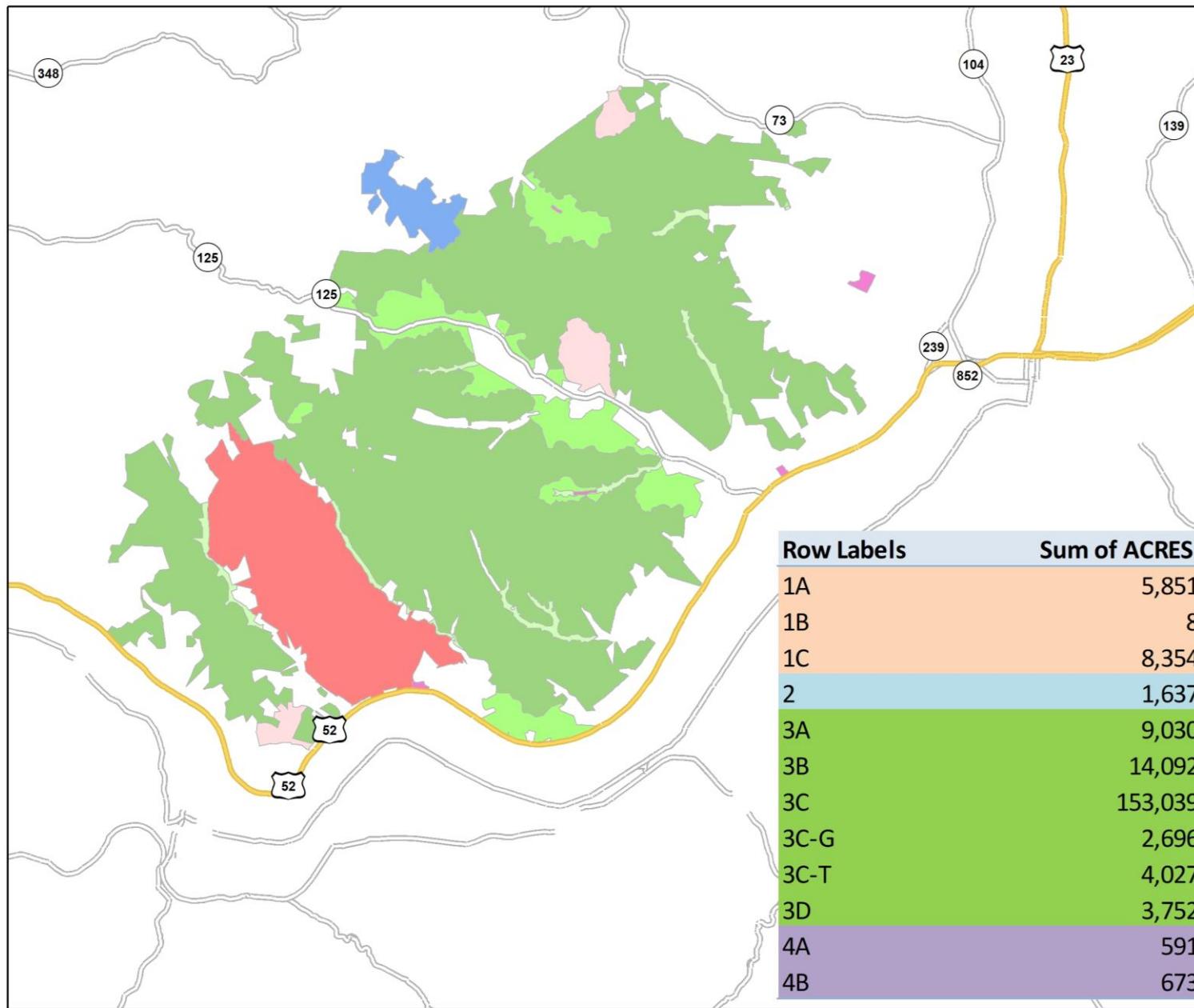
Date:

October 20, 2021

Trees to Textbooks



Community Investment



Ohio Department of Natural Resources
Division of Forestry

**State Forest
Land Management Manual
2016**



Reviewed by the Forest Advisory Council
October 2016

Approved

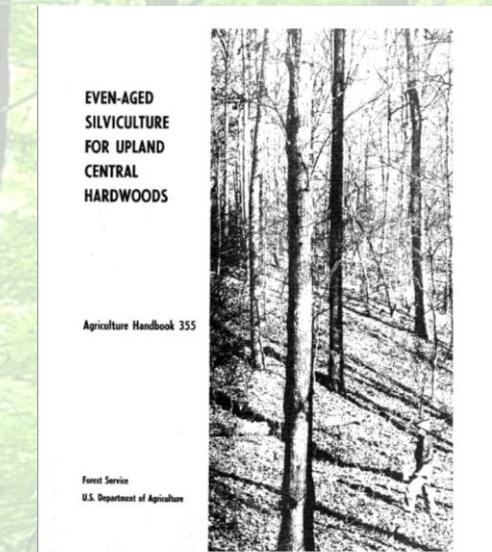


FIGURE 17.—Upland hardwoods on a poor site.

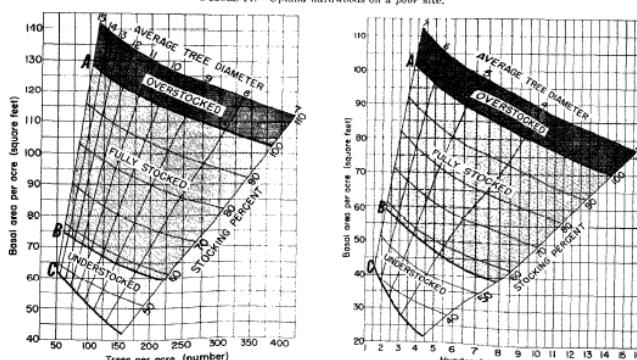
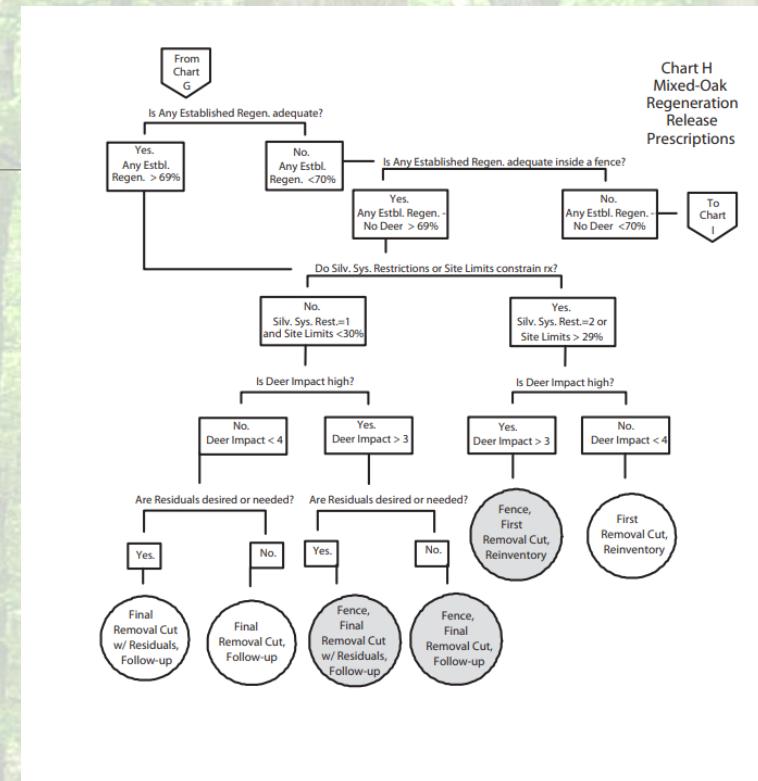


FIGURE 18.—Relation of basal area, number of trees, and average tree diameter to stocking percentage for upland central hardwoods. Tree-diameter range is 7-15 inches in chart at left; 3-7 inches in chart at right. The area between curves A and B on both charts indicates the range of stocking where trees can fully utilize the growing space. Curve C shows the lower limit of stocking necessary to reach the B level in 10 years on average sites. (Average tree diameter is the diameter of the tree of average basal area.)



Silviculture on State Forests

Typical harvest prescriptions

- Shelterwood – 2-stage
- Deferment – 10-20 BA/acre retention
- Thinning (crown, free, improvement)
- Clearcut
- Uneven-aged selection

Items considered when implementing sale

- Economic feasibility
- SMZ width
- Aesthetic buffers
- Access
- Adjacency
- Legacy trees
- Acceptable retention
- Acceptable advanced regeneration
- Specialized equipment requirements



Economic Feasibility

Hardwood stumpage sales

- 100 MBF total, prefer 250 MBF/sale
- Minimum 2,500 BF/acre, prefer 3,500
- Trees <14" dbh should be incidental

Harvest contracts up to 2 years or more with extensions

Merchantability varies by logger and markets, but generally hardwood pulpwood is marketable

Precommercial / Non-commercial treatments

- Typically, <300 acres/year invasive treatments
 - Hoping to increase treatments
- Gypsy moth not a primary concern

RX Fire

- Prefer large units without including stands that will degrade
- Cannot use on current timber sale areas
- Prefer not to use on soon-to-be timber sale areas
- Challenging to implement with acceptable windows

Certification – since 2010

Multiple ecological indicators to meet

- Landscape level analysis
- Stand level features

HCVF management



Requires investment in logger training

Values forest research

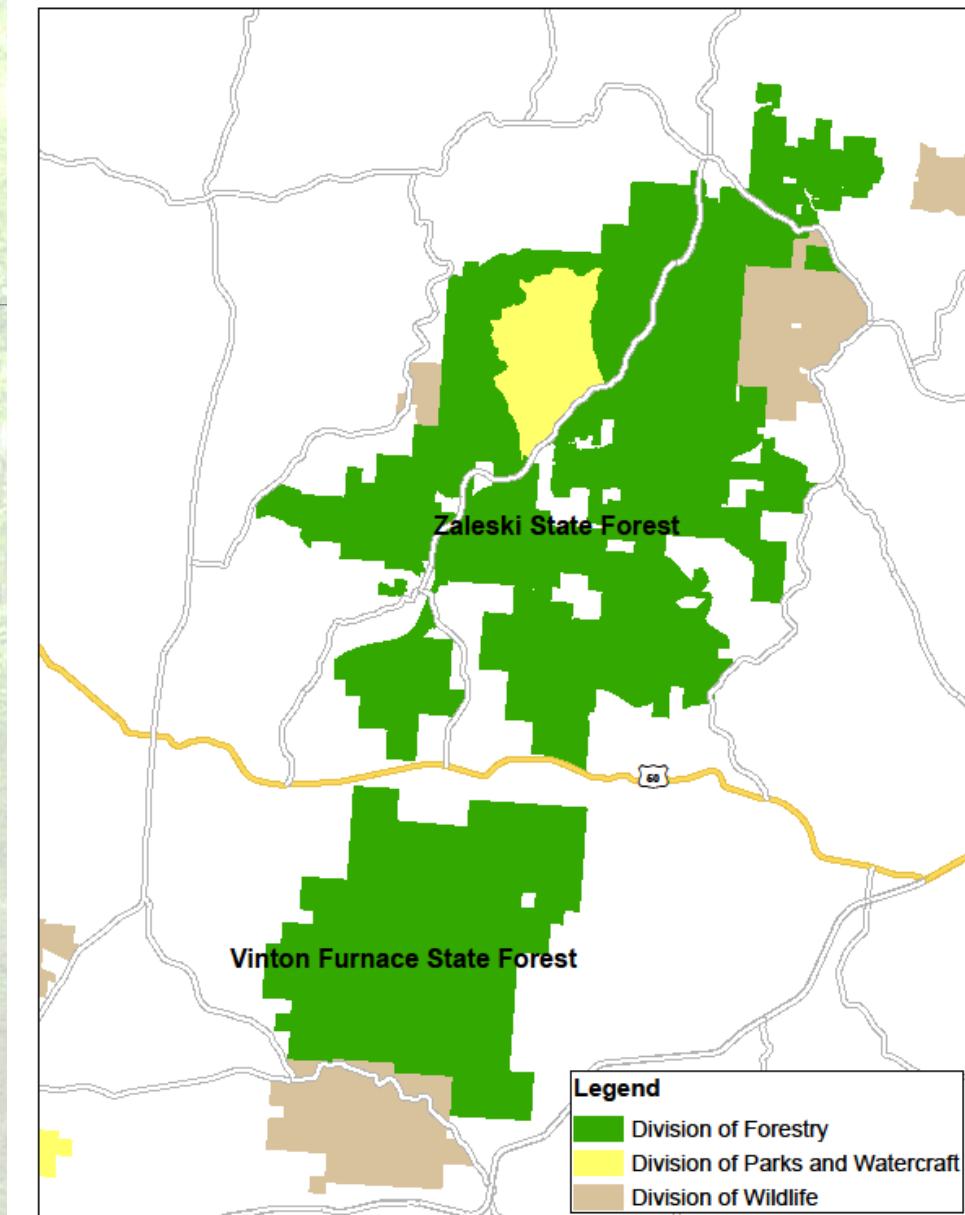
Zaleski State Forest

27,822 acres, second largest state forest

Recreation: backpack trail, bridle trails, horse camp, shooting range, hunters camp, hunting

Adjacent to Lake Hope State Park

Grouse and Turkey Management areas

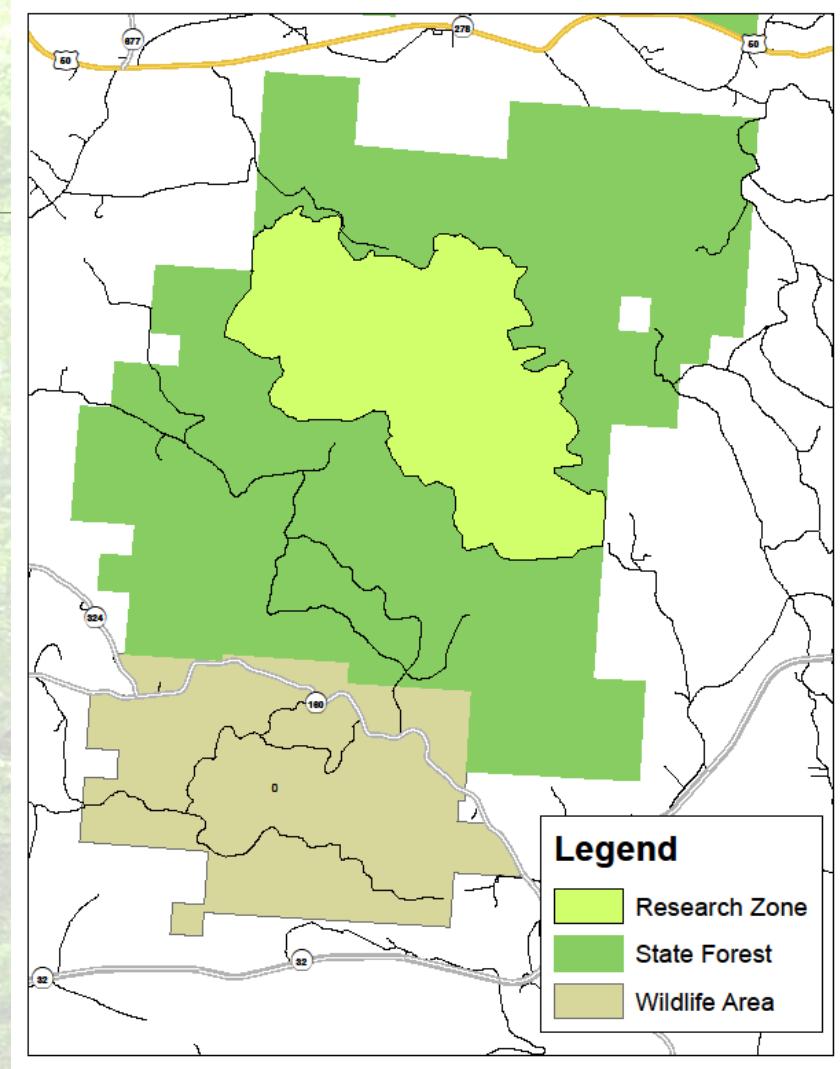


Vinton Furnace State Forest

15,849 acres total

- Research Zone
 - 2,882 acres
- State Forest
 - 9,393 acres
- Wildlife Area
 - 3,547 acres

USFS Research
Station



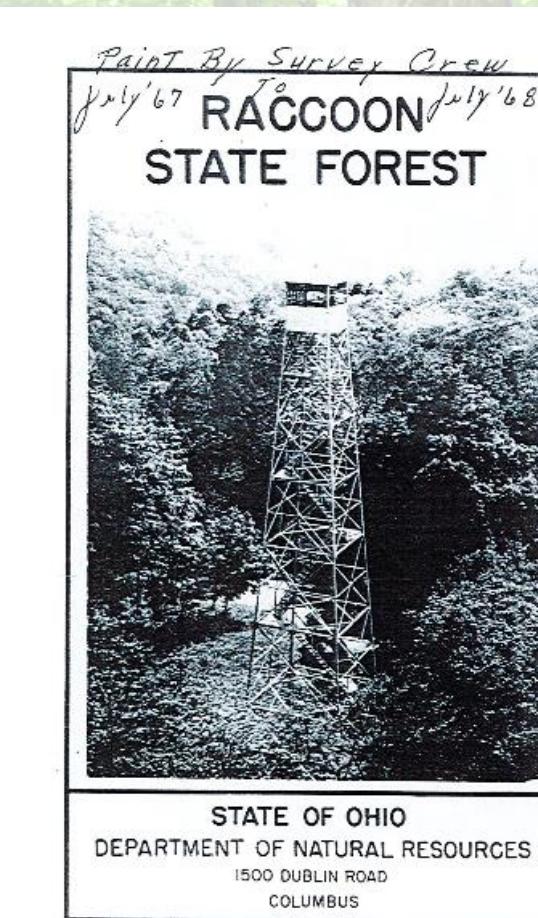
Land History

1930s- Resettlement Act pushed out remaining locals. Land was then owned by USFS.

Federal Government turned land over to state of Ohio and became Raccoon State Forest. (Southern area) 1939-1950s Raccoon state forest

Baker Wood Preserve Co. used it as company lands and later sold to Mead Paper Company in 1963.

Mead traded Raccoon SF land with state



Vinton Furnace Experimental Forest, established 1952

USDA Forest Service research station

Emmett Conway Sr. went to experimental forest in Arkansas and came back to Ohio and convinced his supervisor at Baker Wood Preserving Co. to establish an experimental forest in Ohio.

Originally set aside 1,200 acre tract



Vinton Furnace State Forest, established 2010

State of Ohio obtained private and federal assistance to purchase lands in 2010.

- American Electric Power
- The Nature Conservancy
- USDA Forest Service
- The Conservation Fund



Vegetation

Primarily oak hickory dominant forest type



Vinton Furnace State Forest

Wildlife

Reintroduction of wild turkeys. Ten birds released in 1956 and eight more in 1957.

Bobcat population

Timber rattlesnake population



Early forest research studies

Stand density study

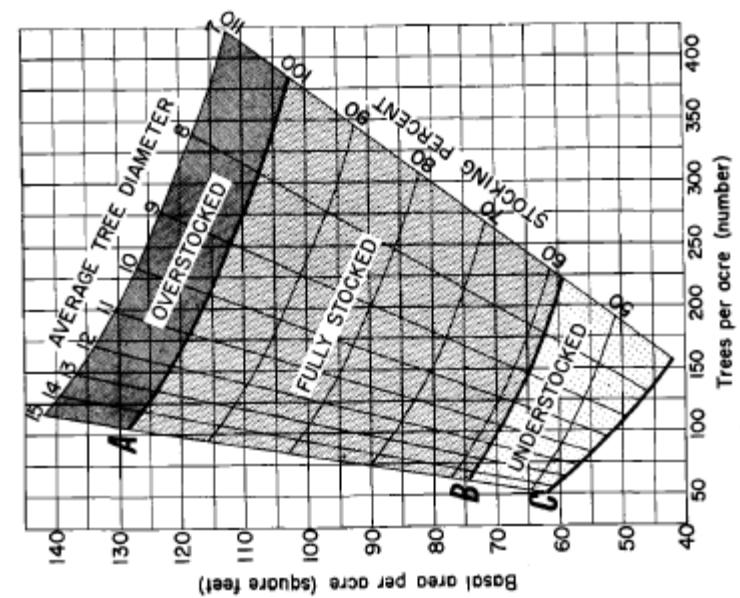
Gingrich 1967, Stocking chart for
upland hardwoods



Figure 3a. Before cutting, plot 4 was 102 percent stocked with 776 trees per acre averaging 4.3 inches d.b.h. and 77 square feet of basal area.



Figure 3b. After cutting, plot 4 was 43 percent stocked with 436 trees averaging 4.3 inches d.b.h. and 43 square feet of basal area.



Recent/ Current Research

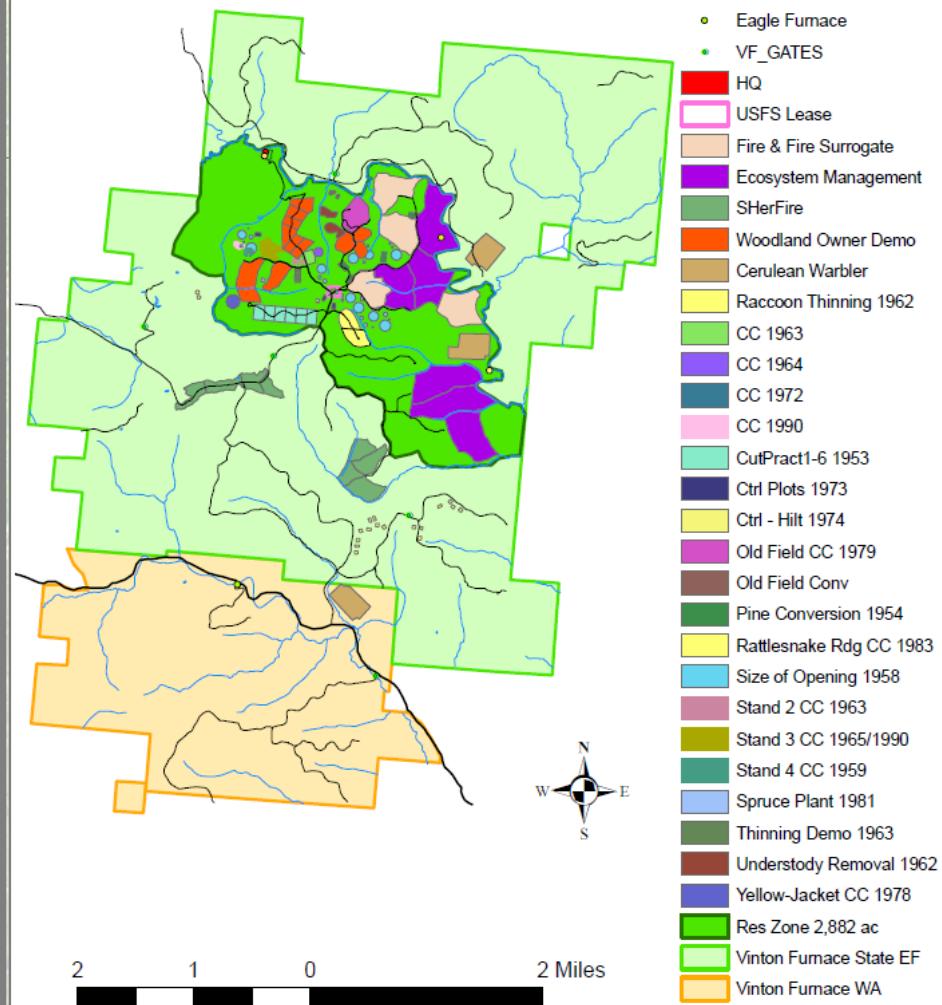
USDA Forest Service

Ohio University

Ohio State University

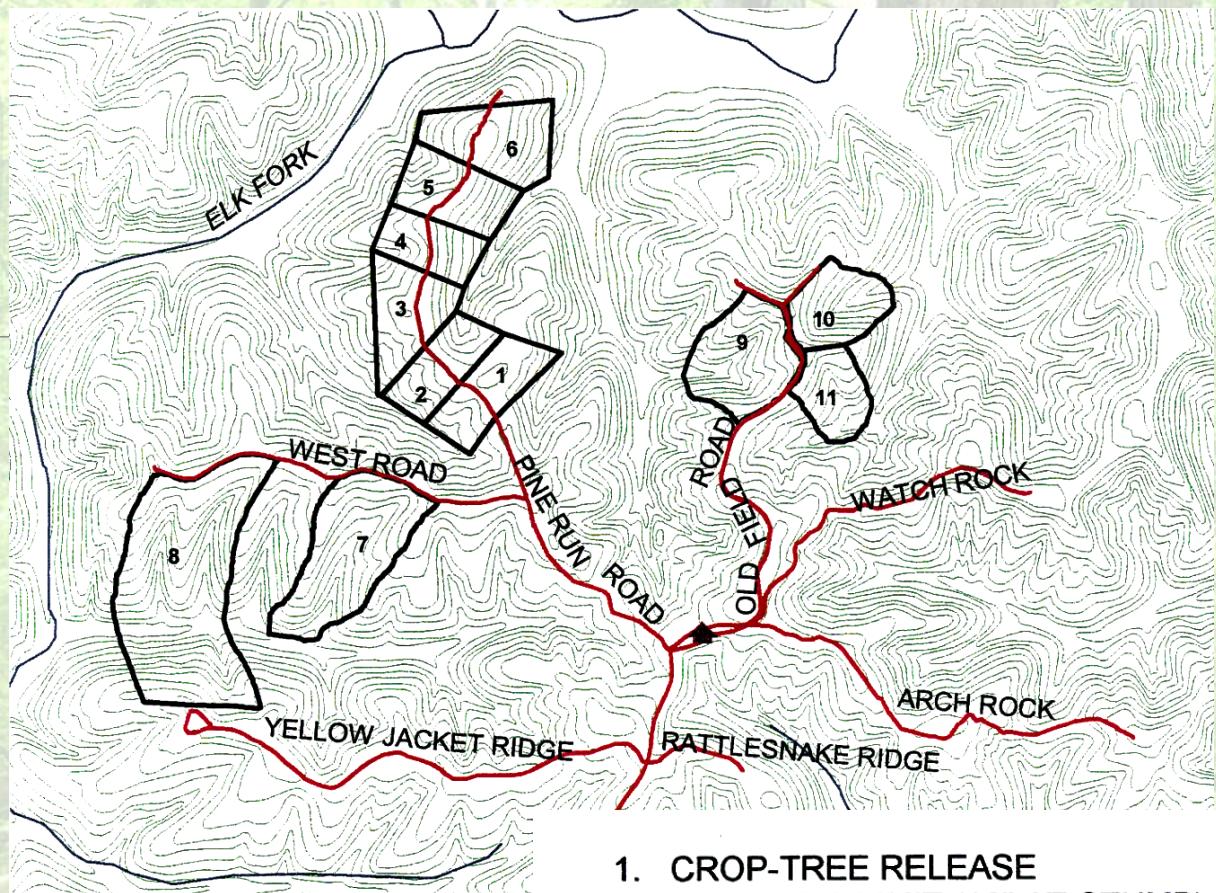
Division of Wildlife

VFSEF Points of Interest



Education and Demonstration

Non-industrial private forest
plots demo area



1. CROP-TREE RELEASE
2. DIAMETER-LIMIT (12" AT STUMP)
3. CONTROL
4. HIGH-GRADE
5. CLEAR-CUT
6. DEFERRED CUTTING
7. SINGLE-TREE SELECTION
8. PATCH CLEAR-CUT
9. GROUP SELECTION
10. SHELTERWOOD
11. DIAMETER-LIMIT (SILVICULTURAL)

A Day in the Woods Outreach Program

OSU Extension takes lead on program

Started 2012

Topics: managing woodlots, tree id, wildlife habitat, botany/ecology programs



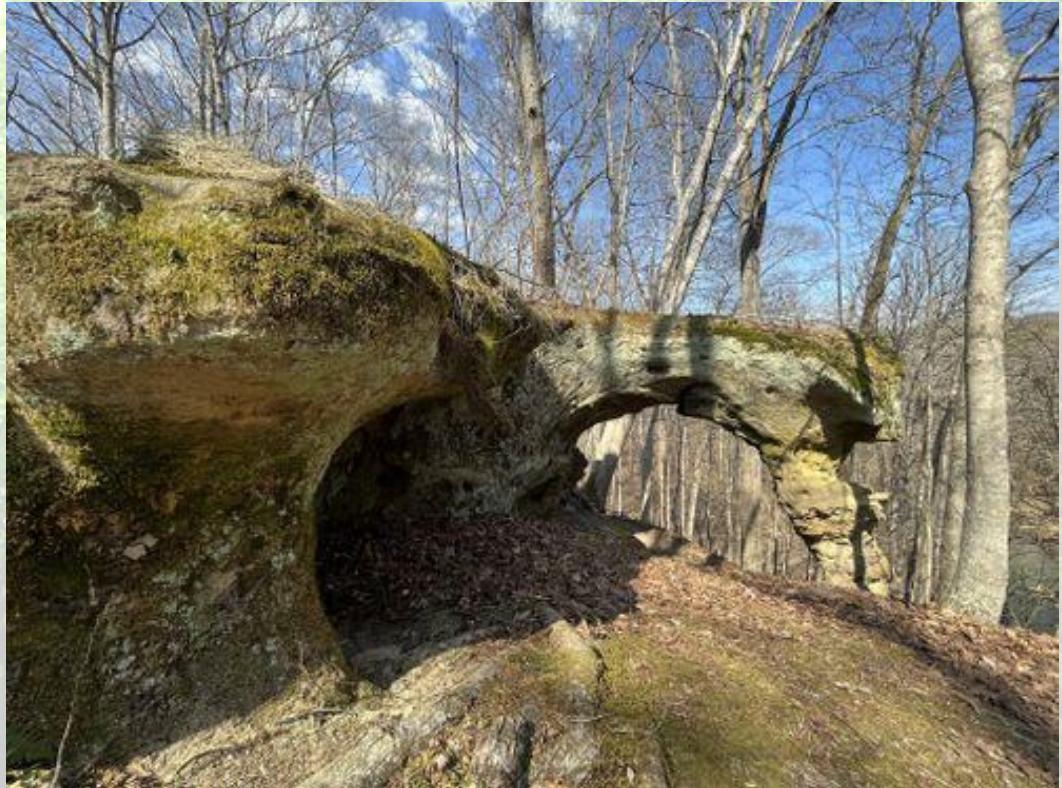
Annual Use of Facility

Average of 850 people/ year since 1992

Includes public outreach, meetings, and trainings



Neat Features within Vinton Furnace SF

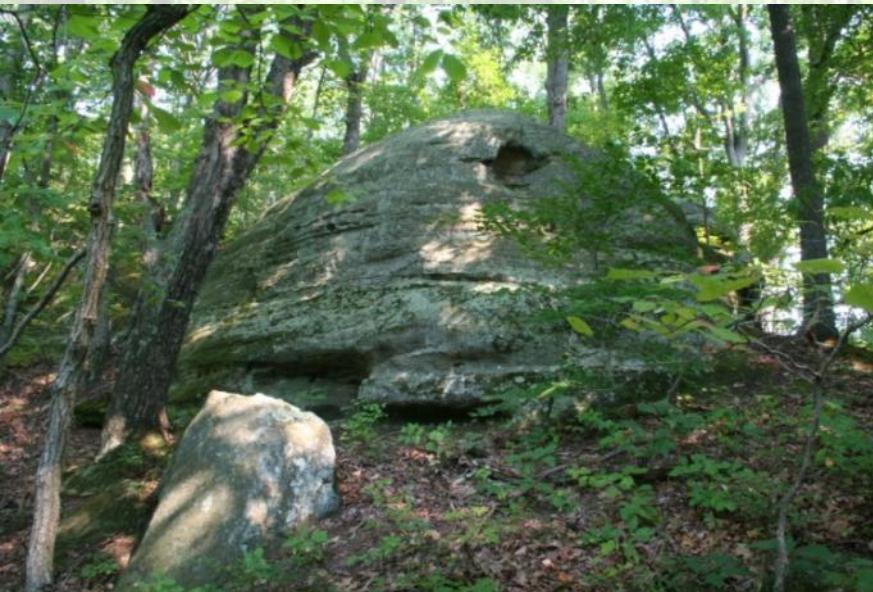


Arch Rock



Watch Rock

Questions?



Watch Rock