



**Forest Inventory & Appraisal For  
Stice Estate**

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**By:**

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# Background Information

**Client's Objective:** The client wants to determine a volume and value estimate for the timber.

**The Report:** The report gives background information about the methodology of the inventory, past history of tract, and potential products. The report also contains a summary of each species, its average volume per tree, and the estimated fair market value. A topographical and aerial map outlines the woodland areas and boundaries of the property.

**Methodology of Inventory & Analysis:** The property was inventoried by systematic cruising using a 10-factor prism. In this systematic cruise, preset GPS cruise points were established with an intended sampling intensity of one plot per 2.2 acres. At each sample point, all trees 13" diameter at breast height and larger were measured as sawtimber. Volume estimates were determined using the Doyle Rule, Form Class 78 and 80 for sawtimber.

**Potential Products:** Grade lumber, veneer (white oak and walnut), crossties, crating material, mat logs and pulpwood.

**Past History:** Evidence suggests that no major harvest has taken place within the last 30 years. There is some evidence of past forest fires that caused tree damage. Recent storms have blown down scattered trees. Emerald Ash borer has begun to cause mortality of your ash trees. Several old fields have reverted back to timber and are not included in the inventory.

**Summary:** The average diameter of the inventoried trees is 18" at breast height. Any future harvest should be geared toward reducing the hickory and maple as much as possible to encourage a higher percentage of oak for the future. Also, all marketable ash trees should be cut that are not infected with the Emerald ash borer. The volume estimates contained in this appraisal were obtained using sound forestry principles. However, even though I have great confidence in the estimates, they are only a sample of the total tree population and in no way can be guaranteed.

The stated volumes are based on sample points placed across the property and expanded using published volume equations. These equations were used to estimate the entire volume on the property. The volumes, market values, and other information can vary from tract to tract. This could include tree form differences from published equations, changes in timber markets, logger utilization of trees, or other reasons.

Respectfully,

*Kraig Moore*

Forester/Broker

# Summary of Inventory and Appraisal for Stice Estate

**Tract Location:** The tract is located near the Junction of Highway 259 and 3021 Old Brownsville Road, Brownsville, Kentucky in Edmonson County.

**Accessibility:** Property is accessible from Old Brownsville Road and farm roads and fields

**Topography:** Topography is gently sloping to steep cliff areas and offers reasonable logging conditions.

**Estimated Wooded:** 201 acres, after subtracting for old field areas.

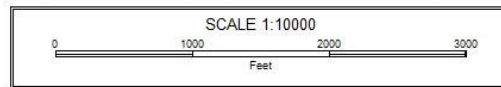
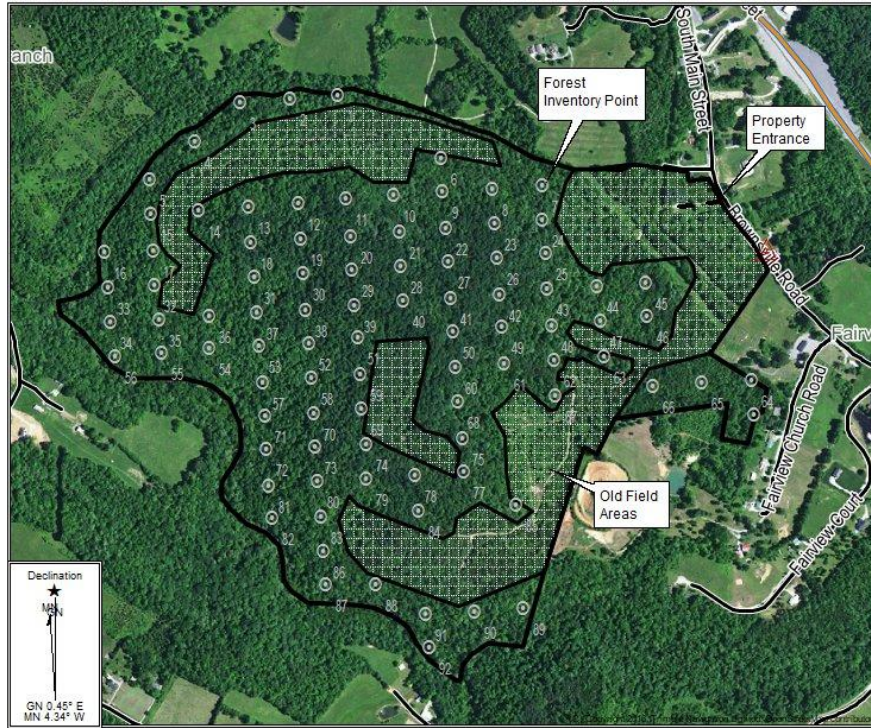
**Total Volume:** 905,700 board feet, Doyle Rule, Form Class 78 & 80

<b>SPECIES</b>	<b>VOLUME</b>	<b>AVE. VOL/TREE</b>
Hickory	239,000	146
White Oak	126,400	138
Yellow Poplar	126,400	269
Sugar Maple	97,000	99
Misc. Red Oak	95,300	173
White Ash	41,600	136
Beech	31,200	201
Sweetgum	26,000	173
Redcedar	24,200	72
Blackgum	17,300	82
Elm	15,600	73
Red Maple	15,600	84
Chestnut Oak	15,600	114
Black Walnut	8,700	130
Boxelder	6,900	45
Sycamore	5,200	390
Sassafras	5,200	88
Post Oak	1,700	158
Paulownia	1,700	27
Scarlet Oak	1,700	247
Black Locust	1,700	78
Black Cherry	1,700	52
<b>Total</b>	<b>905,700</b>	<b>229</b>

A 90% confidence interval indicates the average volume per acre is 4,505 board feet, plus or minus 7.1%.

**If marketed properly, I estimate the standing value of all sawtimber 13" diameter at breast height and larger in November, 2023 to be worth \$279,764.00 +/- 10%. This is the amount the landowner could expect to receive from a properly conducted sale.**

### Aerial Cruise Map:



### Topography Cruise Map:

