

**Executive Summary**  
**Tract Level Summary of the Tolville Tract**  
**Lewis County, KY**  
**1,570 Acres**  
**Effective Date 03/26/2004**

| Land              | Quantity        | Unit         |
|-------------------|-----------------|--------------|
| Timbered          |                 |              |
| Slope             | 1,506.02        | Acres        |
| Total             | 1,506.02        | Acres        |
| Non-Timbered      |                 |              |
| Open              | 63.98           | Acres        |
| Total             | 63.98           | Acres        |
| <b>Total Land</b> | <b>1,570.00</b> | <b>Acres</b> |

| Premerchtable<br>Timber |     | Planted Pine |                  | Natural Pine |                  | Planted Hardwood |                  | Natural Hardwood |                  |
|-------------------------|-----|--------------|------------------|--------------|------------------|------------------|------------------|------------------|------------------|
|                         |     | Acres        | Tons @<br>Age 15 | Acres        | Tons @<br>Age 15 | Acres            | Tons @<br>Age 15 | Acres            | Tons @<br>Age 15 |
| Year of Origin          | Age |              |                  |              |                  |                  |                  |                  |                  |
| 2004                    | 0   |              |                  |              |                  |                  |                  |                  |                  |
| 2003                    | 1   |              |                  |              |                  |                  |                  |                  |                  |
| 2002                    | 2   |              |                  |              |                  |                  |                  |                  |                  |
| 2001                    | 3   |              |                  |              |                  |                  |                  | 33.17            |                  |
| 2000                    | 4   |              |                  |              |                  |                  |                  |                  |                  |
| 1999                    | 5   |              |                  |              |                  |                  |                  |                  |                  |
| 1998                    | 6   |              |                  |              |                  |                  |                  | 183.04           |                  |
| 1997                    | 7   |              |                  |              |                  |                  |                  |                  |                  |
| 1996                    | 8   |              |                  |              |                  |                  |                  | 67.24            |                  |
| 1995                    | 9   |              |                  |              |                  |                  |                  |                  |                  |
| 1994                    | 10  |              |                  |              |                  |                  |                  |                  |                  |
| 1993                    | 11  |              |                  |              |                  |                  |                  |                  |                  |
| 1992                    | 12  |              |                  |              |                  |                  |                  |                  |                  |
| 1991                    | 13  |              |                  |              |                  |                  |                  |                  |                  |
| 1990                    | 14  |              |                  |              |                  |                  |                  |                  |                  |

|                            |               |
|----------------------------|---------------|
| <b>Weighted Avg. Total</b> | <b>283.45</b> |
| Total Merchantable Acres   | 1,222.57      |
| Total Other Acres          | 63.98         |
| Total Tract Acreage        | 1,570.00      |

**Merchantable Timber**

| Species           | Product                    | Quantity         | Unit  | Growth Rates |
|-------------------|----------------------------|------------------|-------|--------------|
| Pine              | Pulpwood (w/tops)          | 422.70           | Tons  | 6.64%        |
|                   | Small Sawtimber            | 73.00            | Tons  | 3.40%        |
|                   | Large Sawtimber            | 61.79            | MBF,D | 2.88%        |
|                   | <b>Total Pine</b>          | <b>557.49</b>    |       |              |
| Hemlock           | Pulpwood (w/tops)          | 304.30           | Tons  | 6.64%        |
|                   | Large Sawtimber            | 52.70            | MBF,D | 2.88%        |
|                   | <b>Total Hemlock</b>       | <b>357.00</b>    |       |              |
| Hardwood Pulpwood | Hard Hdwood Pulp           | 28,952.00        | Tons  | 3.80%        |
|                   | Soft Hdwood Pulp           | 6,085.00         | Tons  | 3.80%        |
|                   | <b>Total Hardwood Pulp</b> | <b>35,037.00</b> | Tons  |              |
| Hard Hardwood     | Large Sawtimber            | 276.58           | MBF,D | 2.67%        |
|                   | <b>Total Hard Hwd.</b>     | <b>276.58</b>    | MBF,D |              |
| Black Oak         | Large Sawtimber            | 574.75           | MBF,D | 2.67%        |
|                   | <b>Total Black Oak</b>     | <b>574.75</b>    | MBF,D |              |
| Scarlet Oak       | Large Sawtimber            | 525.32           | MBF,D | 2.67%        |
|                   | <b>Total Scarlet Oak</b>   | <b>525.32</b>    | MBF,D |              |
| Northern Red Oak  | Large Sawtimber            | 186.69           | MBF,D | 2.67%        |
|                   | <b>Total Red Oak</b>       | <b>186.69</b>    | MBF,D |              |
| White Oak         | Large Sawtimber            | 656.03           | MBF,D | 2.67%        |
|                   | <b>Total White Oak</b>     | <b>656.03</b>    | MBF,D |              |
| Chestnut Oak      | Large Sawtimber            | 1073.05          | MBF,D | 2.67%        |
|                   | <b>Total Chestnut Oak</b>  | <b>1073.05</b>   | MBF,D |              |
| Hickory           | Large Sawtimber            | 168.75           | MBF,D | 2.67%        |
|                   | <b>Total Walnut</b>        | <b>168.75</b>    | MBF,D |              |
| Ash               | Large Sawtimber            | 18.99            | MBF,D | 2.67%        |
|                   | <b>Total Ash</b>           | <b>18.99</b>     | MBF,D |              |
| Soft Hardwood     | Large Sawtimber            | 61.77            | MBF,D | 2.67%        |
|                   | <b>Total Soft Hardwood</b> | <b>61.77</b>     | MBF,D |              |
| Polpar            | Large Sawtimber            | 498.59           | MBF,D | 2.67%        |
|                   | <b>Total Polpar</b>        | <b>498.59</b>    | MBF,D |              |
| Maple             | Large Sawtimber            | 42.88            | MBF,D | 2.67%        |
|                   | <b>Total Maple</b>         | <b>42.88</b>     | MBF,D |              |
| Black Cherry      | Large Sawtimber            | 2.12             | MBF,D | 2.67%        |
|                   | <b>Total Black Cherry</b>  | <b>2.12</b>      | MBF,D |              |

1. For more detailed volume information see the "Volume Summary" section of this report.  
2. Ice damaged trees are included in the above volumes. Refer to page 1 and 6 of the inventory narrative  
For more detailed information concerning these grades.

## Confidence Intervals for Merchantable Value Estimates in Dollars per Acre

**Tolville Tract  
Lewis County, Kentucky  
March 26, 2004**

| Compartment Number | Acres   | Samples | Mean (\$) | CI-90 (%) | CI-95 (%) | CI-99 (%) | CV (%) |
|--------------------|---------|---------|-----------|-----------|-----------|-----------|--------|
| 1                  | 1,222.6 | 436     | 541.53    | 5.5       | 6.6       | 8.7       | 70.2   |
| Tract Total        | 1,222.6 | 436     | 541.53    | 5.5       | 6.6       | 8.7       | 70.2   |

- 1) CI-95 refers to the 95 % confidence interval for the mean value per acre as a percent of the mean
- 2) CV(%) - the coefficient of variation, which represents the variability between samples, on a percent basis
- 3) Total compartment acreage represents the total acres in merchantable timber

**Stand Description and Acres**

**Tolville Tract  
Lewis County, Kentucky  
April 6, 2004**

**1570.00 Acres**

| Stand  |             |          |
|--------|-------------|----------|
| Number | Description | Acres    |
| 1.0    | NSMH-1950   | 86.75    |
| 2.0    | NSMH-1998   | 183.04   |
| 3.0    | Open        | 63.98    |
| 6.0    | NSMH-1950   | 930.68   |
| 7.0    | NSMH-2001   | 33.17    |
| 9.0    | NSMH-1996   | 67.24    |
| 10.0   | NSMH-1950   | 205.14   |
| Total  |             | 1,570.00 |

## Confidence Intervals for Merchantable Weight Estimates in Tons per Acre

**Tolville Tract  
Lewis County, Kentucky  
March 26, 2004**

| Compartment Number | Acres   | Samples | Mean  | CI-90 (%) | CI-95 (%) | CI-99 (%) | CV (%) |
|--------------------|---------|---------|-------|-----------|-----------|-----------|--------|
| 1                  | 1,222.6 | 436     | 65.45 | 3.7       | 4.4       | 5.8       | 47.2   |
| Tract Total        | 1,222.6 | 436     | 65.45 | 3.7       | 4.4       | 5.8       | 47.2   |

1) CI-95 refers to the 95% confidence interval for the mean weight per acre as a percent of the mean

2) CV(%) - the coefficient of variation, which represents the variability between samples, on a percent basis

3) Total compartment acreage represents the total acres in merchantable timber

## Confidence Intervals for Merchantable Estimates of Trees per Acre

**Tolville Tract  
Lewis County, Kentucky  
March 26, 2004**

| Compartment Number | Acres   | Samples | Mean   | CI-90 (%) | CI-95 (%) | CI-99 (%) | CV (%) |
|--------------------|---------|---------|--------|-----------|-----------|-----------|--------|
| 1                  | 1,222.6 | 436     | 111.28 | 5.0       | 6.0       | 7.9       | 63.7   |
| Tract Total        | 1,222.6 | 436     | 111.28 | 5.0       | 6.0       | 7.9       | 63.7   |

- 1) CI-95 refers to the 95% confidence interval for the mean trees per acre as a percent of the mean
- 2) CV(%) - coefficient of variation, which represents the variability between samples, on a percent basis
- 3) Total compartment acreage represents the total acres in merchantable timber

## Confidence Intervals for Merchantable Volume Estimates in Cubic Feet per Acre

**Tolville Tract  
Lewis County, Kentucky  
March 26, 2004**

| Compartment Number | Acres   | Samples | Mean  | CI-90 (%) | CI-95 (%) | CI-99 (%) | CV (%) |
|--------------------|---------|---------|-------|-----------|-----------|-----------|--------|
| <b>1</b>           | 1,222.6 | 436     | 17.86 | 3.8       | 4.5       | 5.9       | 48.2   |
| <b>Tract Total</b> | 1,222.6 | 436     | 17.86 | 3.8       | 4.5       | 5.9       | 48.2   |

1) CI-95 refers to the 95% confidence interval for the mean cubic foot volume per acre as a percent of the mean

2) CV(%) - the coefficient of variation, which represents the variability between samples, on a percent basis

3) Total compartment acreage represents the total acres in merchantable timber

## Confidence Intervals for Merchantable Volume Estimates in Board Feet per Acre

Tolville Tract  
Lewis County, Kentucky  
March 26, 2004

| Compartment Number | Acres   | Samples | Mean     | CI-90 (%) | CI-95 (%) | CI-99 (%) | CV (%) |
|--------------------|---------|---------|----------|-----------|-----------|-----------|--------|
| 1                  | 1,222.6 | 436     | 3,435.33 | 5.8       | 6.9       | 9.0       | 73.1   |
| Tract Total        | 1,222.6 | 436     | 3,435.33 | 5.8       | 6.9       | 9.0       | 73.1   |

- 1) CI-95 refers to the 95% confidence interval for the mean board foot volume per acre as a percent of the mean
- 2) CV(%) - the coefficient of variation, which represents the variability between samples, on a percent basis
- 3) Board foot volumes are based on Mesavage and Girard volume tables (large sawtimber trees only)
- 4) Total compartment acreage represents the total acres in merchantable timber

## Confidence Intervals for Merchantable Volume Estimates in Cords per Acre

Tolville Tract  
Lewis County, Kentucky  
March 26, 2004

| Compartment Number | Acres   | Samples | Mean  | CI-90 (%) | CI-95 (%) | CI-99 (%) | CV (%) |
|--------------------|---------|---------|-------|-----------|-----------|-----------|--------|
| 1                  | 1,222.6 | 436     | 23.47 | 3.7       | 4.4       | 5.8       | 47.2   |
| Tract Total        | 1,222.6 | 436     | 23.47 | 3.7       | 4.4       | 5.8       | 47.2   |

- 1) CI-95 refers to the 95% confidence interval for the mean cords per acre as a percent of the mean
- 2) CV(%) - the coefficient of variation, which represents the variability between samples, on a percent basis
- 3) Total compartment acreage represents the total acres in merchantable timber

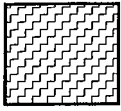
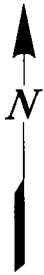
## Confidence Intervals for Merchantable Estimates of Basal Area per Acre

**Tolville Tract  
Lewis County, Kentucky  
March 26, 2004**

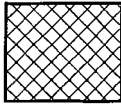
| Compartment Number | Acres   | Samples | Mean  | CI-68 (%) | CI-90 (%) | CI-95 (%) | CI-99 (%) | CV (%) |
|--------------------|---------|---------|-------|-----------|-----------|-----------|-----------|--------|
| 1                  | 1,222.6 | 436     | 75.52 | 2.2       | 3.6       | 4.3       | 5.7       | 46.2   |
| Tract Total        | 1,222.6 | 436     | 75.52 | 2.2       | 3.6       | 4.3       | 5.7       | 46.2   |

- 1) CI-95 refers to the 95% confidence interval for the mean basal area per acre as a percent of the mean
- 2) CV(%) - the coefficient of variation, which represents the variability between samples, on a percent basis
- 3) Total compartment acreage represents the total acres in merchantable timber

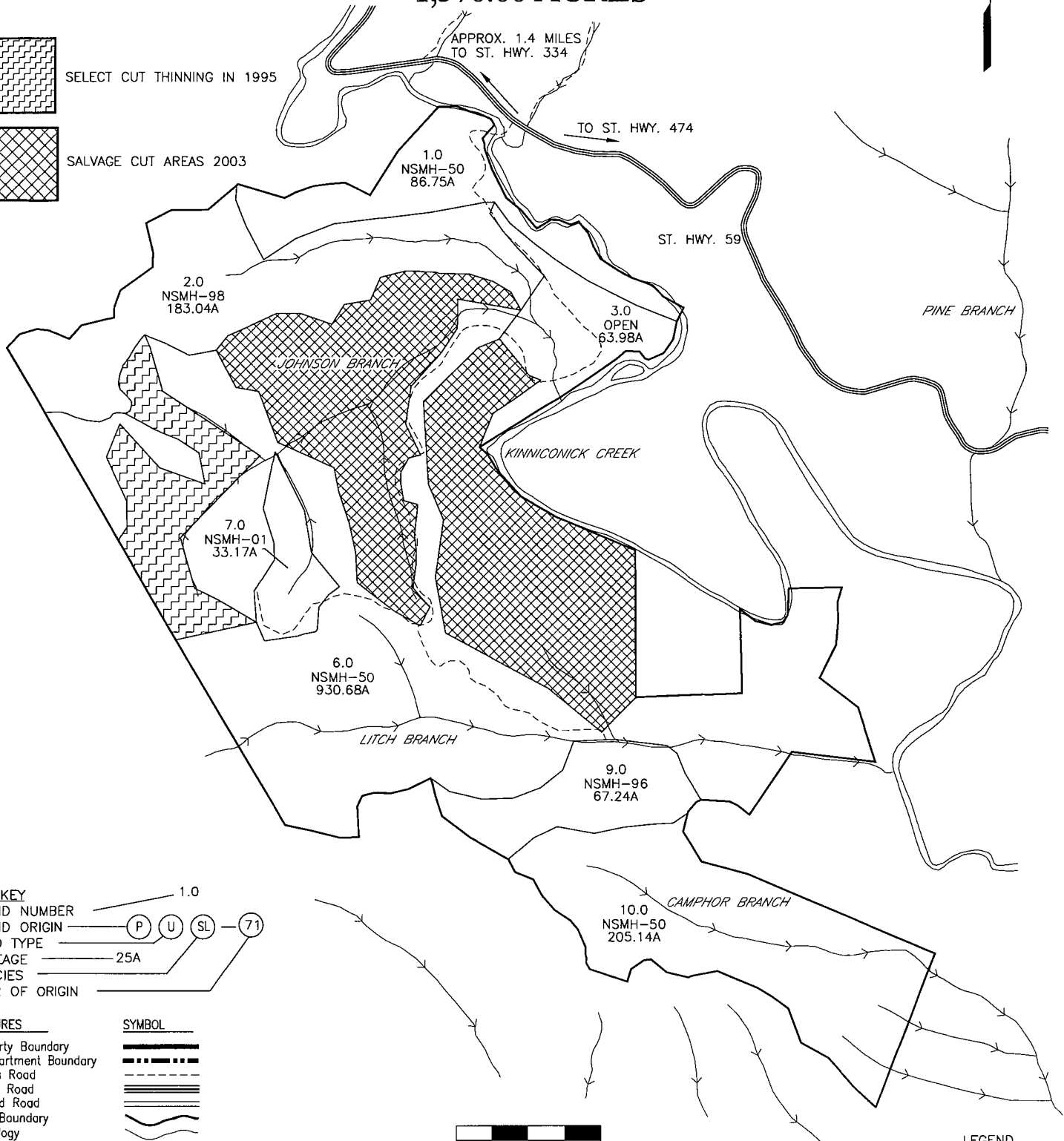
# TOLVILLE TRACT LEWIS COUNTY, KENTUCKY 1,570.00 ACRES



SELECT CUT THINNING IN 1995



SALVAGE CUT AREAS 2003



**KEY**

STAND NUMBER — 1.0

STAND ORIGIN — (P) (U) (SL) (71)

LAND TYPE —

ACREAGE — 25A

SPECIES —

YEAR OF ORIGIN —

**FEATURES**

Property Boundary —————

Compartment Boundary ————

Woods Road - - - - -

Paved Road =====

Graded Road - - - - -

Type Boundary ~~~~~

Topography

Contour

Railroad

**SYMBOL**

—————

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- - - - -

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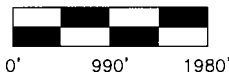
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**LEGEND**

STAND ORIGIN CODES  
N=NATURAL

LAND TYPE CODES  
S=SLOPE

SPECIES CODES  
MH=MIXED HARDWOOD

DRAWN BY: K.VANN  
LAST MAP UPDATE  
Mar 31, 2004 - 11:36:28  
STAND DATE: 20040304  
MGMT. STATUS: C\_040304

**Acreages Sorted by Description**

**Tolville Tract  
Lewis County, Kentucky  
April 6, 2004**

| <u>Description</u> | <u>Acres</u>   |
|--------------------|----------------|
| Open               | 63.98          |
| NSMH-1950          | 1,222.57       |
| NSMH-1996          | 67.24          |
| NSMH-1998          | 183.04         |
| NSMH-2001          | 33.17          |
| <hr/> Total        | <hr/> 1,570.00 |