United States
Department of
Agriculture

Forest Service

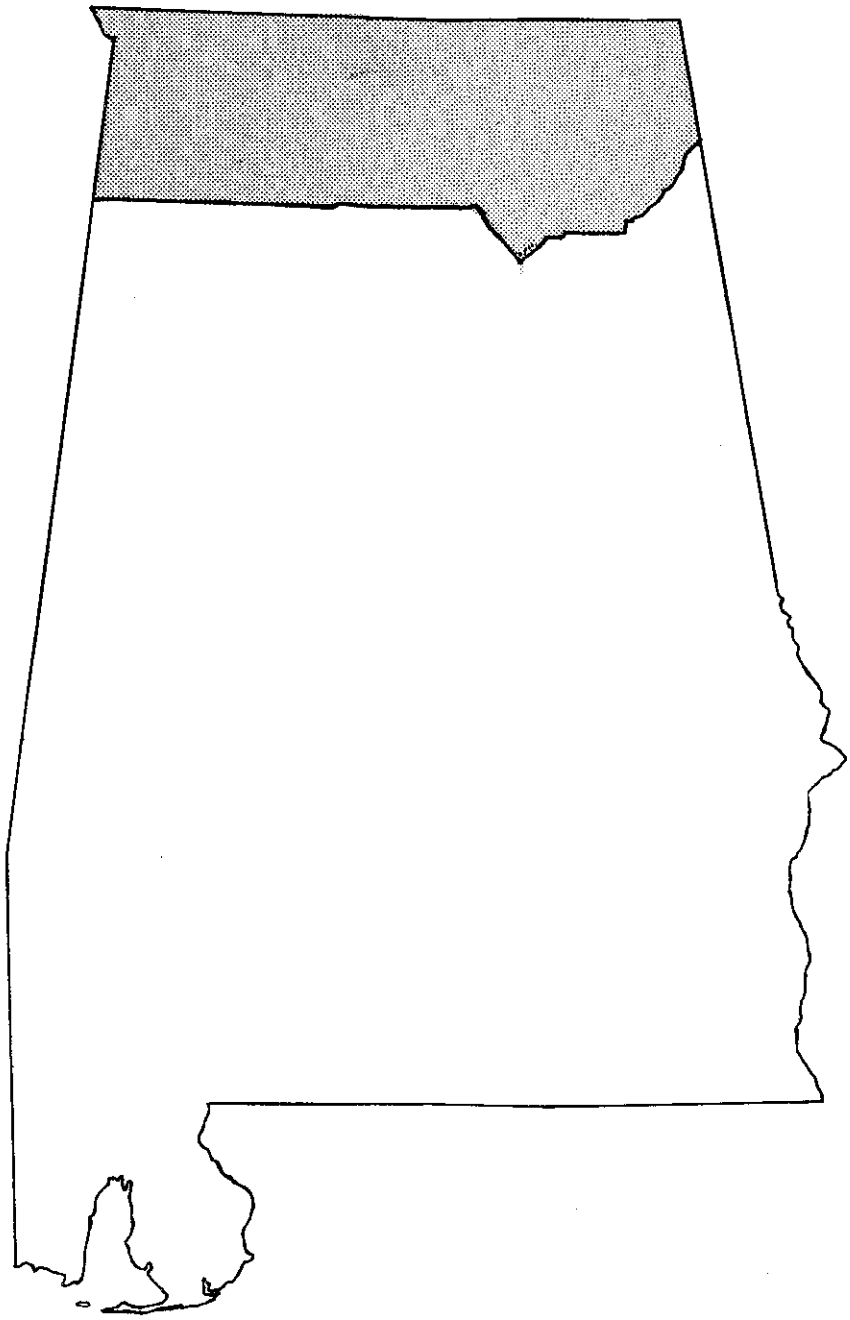
**Southern Forest
Experiment Station**

New Orleans,
Louisiana

Resource Bulletin
SO-95
April, 1983

Forest Statistics for North Alabama Counties

Staff: Forest Inventory and Analysis Work Unit



FOREST STATISTICS FOR NORTH ALABAMA COUNTIES

Staff: Forest Inventory and Analysis Research Work Unit

These tables were derived from data obtained during a 1982 inventory of 10 counties comprising the North Unit of Alabama (fig. 1). The data on forest acreage and timber volume were secured by a systematic sampling method involving a forest-nonforest classification on aerial photographs and on-the-ground measurements of trees at sample locations. The sample locations were at the intersections of a grid of lines spaced 3 miles apart. At each forest location, per acre estimates were obtained from 5 BA 37.5 point samples.

Table 1.--*Sampling errors*[1] *for forest land and timber volume, 1982*

County	Commercial forest land	Growing stock	Sawtimber
	- - - - - - - - -	*percent*	- - - - - - - - -
Colbert	1.8	11.2	13.6
De Kalb	2.5	12.8	15.7
Franklin	2.5	13.3	15.7
Jackson	1.7	8.3	11.0
Lauderdale	2.0	12.9	19.8
Lawrence	2.6	13.1	20.1
Limestone	1.8	15.8	19.9
Madison	3.2	13.6	19.7
Marshall	2.9	13.4	19.0
Morgan	2.1	13.3	18.2
All counites	0.7	4.0	5.4

[1] By random-sampling formula.

The sampling methods were developed to provide suitable State estimates. Estimates for smaller areas are presented, but sampling error increases as the area considered decreases. Sampling errors given in table 1 are based on one standard deviation or a probability of two chances out of three. To estimate the sampling error for a combination of counties one can use the following:

$$SE_G = \frac{SE_T \sqrt{X_T}}{\sqrt{X_G}}$$

where:

SE = standard error of estimate (%)
X = variable of interest (area, volume)
G = group of counties to be combined
T = total for the unit

Sampling errors for estimates of the principal timber species are shown in table 2.

Table 2.--*Sampling errors for timber volume by species, 1982*

Species	Growing stock	Sawtimber
	- - - - - - *percent*	- - - - - -
Softwood:		
Shortleaf pine	15.4	19.4
Loblolly pine	13.3	16.1
Virginia pine	19.8	24.6
Redcedar	21.7	34.1
Hemlock	([1])	([1])
Cypress	([1])	([1])
Total	8.8	11.1
Hardwood:		
Select white oaks	10.0	12.3
Select red oaks	14.7	15.9
Other white oaks	13.6	17.7
Other red oaks	10.0	11.9
Other hickories	9.0	10.9
Persimmon	45.2	([1])
Hard maple	25.1	47.0
Soft maple	29.8	39.0
Boxelder	([1])	...
Beech	42.2	42.0
Sweetgum	17.4	23.5
Blackgum	18.3	25.6
White ash	20.6	27.4
Other ashes	44.1	([1])
Sycamore	40.8	47.4
Basswood	([1])	([1])
Yellow-poplar	15.4	17.7
Magnolia	([1])	([1])
Willow	([1])	...
Black walnut	37.6	([1])
Black cherry	39.1	([1])
American elm	36.0	45.8
Other elms	21.2	31.4
River birch	([1])	([1])
Hackberry	([1])	([1])
Black locust	45.3	([1])
Other locusts	([1])	...
Sassafras	([1])	([1])
Dogwood	47.6	...
Holly	([1])	...
Other commercial	([1])	...
Total	4.1	5.0
All species	4.0	5.4

[1] Exceeds 50 percent.

DEFINITIONS OF TERMS

Acceptable trees.--Growing-stock trees of commercial species that meet specified standards of size and quality but do not qualify as desirable trees.

Commercial forest land.--Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization.

Desirable trees.--Growing stock trees that are of commercial species, have no defects in quality for timber products, are of relatively high vigor, and contain no pathogens that may result in death or serious deterioration before rotation age.

Forest type.--A classification of forest land based upon the species forming a plurality of live-tree stocking.

Growing-stock trees.--Live trees that are of commercial species and qualify as desirable or acceptable trees.

Growing stock volume.--Net volume in cubic feet of growing-stock trees at least 5.0 inches in diameter at breast height, from a 1 foot stump to a minimum 4.0-inch top diameter outside bark of the central stem, or to the point where the central stem breaks into limbs.

Noncommercial species.--Tree species of typically small size, poor form, or inferior quality which normally do not develop into trees suitable for industrial wood products.

Physiographic site.--A classification of forest land according to its suitability for growing certain species groups-pine, upland hardwood, or bottomland hardwood

Poletimber trees.--Growing-stock trees of commercial species at least 5.0 inches in diameter at breast height, but smaller than sawtimber size.

Rotten trees.--Live trees of commercial species that do not contain at least one 12-foot saw log, now or prospectively, primarily because of rot.

Rough trees.--Live trees of commercial species that do not contain at least one 12-foot saw log, now or prospectively, primarily because of roughness or poor form. (Includes all live trees of noncommercial species).

Sawtimber trees.--Live trees that are of commercial species, contain at least a 12-foot saw log, and meet regional specifications for freedom from defect. Softwoods must be at least 9.0 inches in diameter at breast height and hardwoods at least 11.0 inches.

Sawtimber volume.--Net volume of the sawlog portion of live sawtimber in board feet, International 1/4-inch rule and in cubic feet.

Site class.--A classification of forest land in terms of inherent capacity to grow crops of industrial wood.

Stand-size class.--A classification of forest land based on the size class of growing-stock trees on the area; that is, sawtimber, poletimber, or sapling and seedling.

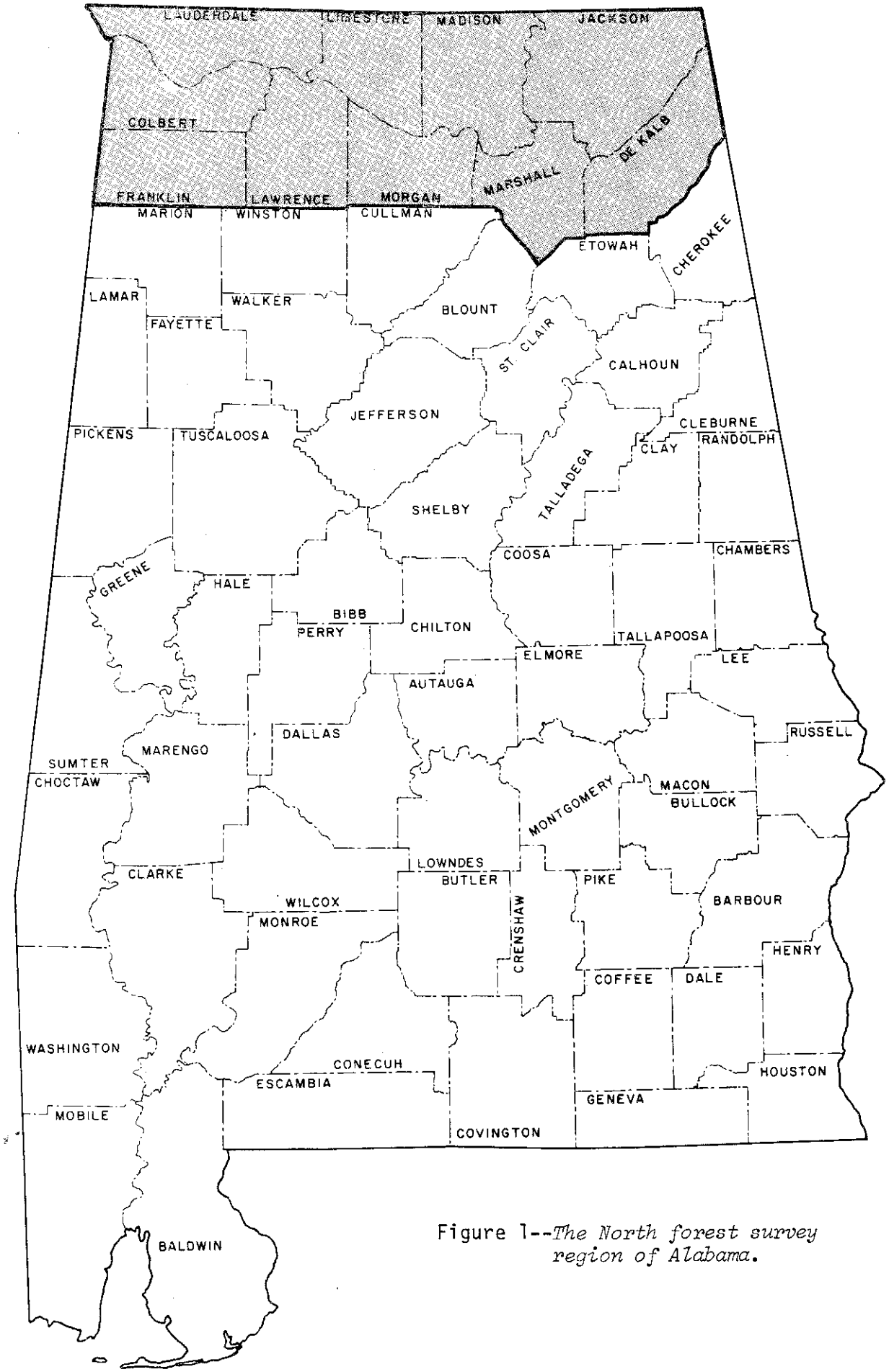


Figure 1--*The North forest survey region of Alabama.*

Table 3.--*Total area and commercial forest land, 1982*

County	Total area[1]	Commercial forest land 1982	Commercial forest land 1972
	thousand acres		
Colbert	403.8	213.4	222.3
De Kalb	497.9	259.1	246.4
Franklin	412.2	260.1	265.0
Jackson	727.0	440.1	436.8
Lauderdale	460.2	157.9	154.0
Lawrence	453.8	192.5	203.5
Limestone	380.2	110.6	77.9
Madison	518.4	198.0	180.0
Marshall	401.3	198.7	173.6
Morgan	380.2	157.3	157.5
All counties	4,635.0	2,187.7	2,117.0

1 United States Bureau of the Census, Land and Water Area of the United States.

Table 4.--*Commercial forest land by ownership class,*[1] *1982*

County	All ownerships	National forest	Other public	Forest industry	Farmer	Misc. private
	thousand acres					
Colbert	213.4	...	10.7	10.7	53.3	138.7
De Kalb	259.1	...	13.0	13.0	116.6	116.6
Franklin	260.1	...	5.4	75.9	103.0	75.9
Jackson	440.1	...	16.7	27.9	150.4	245.1
Lauderdale	157.9	...	...	12.6	107.4	37.9
Lawrence	192.5	72.8	5.2	...	93.6	20.8
Limestone	110.6	...	11.6	...	87.3	11.6
Madison	198.0	...	28.3	14.1	56.6	99.0
Marshall	198.7	...	12.4	12.4	93.1	80.7
Morgan	157.3	...	14.3	...	104.9	38.1
All counties	2,187.7	72.8	117.6	166.5	966.2	864.5

1 Totals may not add due to rounding.

Table 5.--*Commercial forest land by forest type,*[1] *1982*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Nonstocked areas
	thousand acres						
Colbert	213.4	53.3	32.0	112.0	10.7	5.3	...
De Kalb	259.1	90.7	58.3	110.1	...	...	...
Franklin	260.1	81.3	32.5	140.9	...	...	5.4
Jackson	440.1	55.7	61.3	295.3	27.9	...	...
Lauderdale	157.9	31.6	12.6	113.7	...	...	...
Lawrence	192.5	62.4	31.2	78.0	10.4	...	10.4
Limestone	110.6	5.8	...	75.7	23.3	...	5.8
Madison	198.0	28.3	14.1	113.1	42.4	...	...
Marshall	198.7	68.3	24.8	99.3	...	...	6.2
Morgan	157.3	42.9	19.1	76.3	19.1	...	...
All counties	2,187.7	520.3	286.0	1,214.4	133.7	5.3	27.9

1 Totals may not add due to rounding.

Table 6.--*Commercial forest land by stand-size class,*[1] *1982*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	thousand acres				
Colbert	213.4	53.3	96.0	64.0	...
De Kalb	259.1	103.6	77.7	77.7	...
Franklin	260.1	75.9	108.4	70.4	5.4
Jackson	440.1	172.7	156.0	111.4	...
Lauderdale	157.9	63.2	75.8	19.0	...
Lawrence	192.5	62.4	88.4	31.2	10.4
Limestone	110.6	58.2	23.3	23.3	5.8
Madison	198.0	70.7	99.0	28.3	...
Marshall	198.7	86.9	86.9	18.6	6.2
Morgan	157.3	66.8	62.0	28.6	...
All counties	2,187.7	813.7	873.5	472.6	27.9

1 Totals may not add due to rounding.

Table 7.--*Commercial forest land by site class,*[1] *1982*

County	All classes	165 ft^3 or more	120-165 ft^3	85-120 ft^3	50-85 ft^3	Less than 50 ft^3
	thousand acres					
Colbert	213.4	16.0	21.3	64.0	112.0	...
De Kalb	259.1	19.4	13.0	58.3	116.6	51.8
Franklin	260.1	21.7	27.1	75.9	124.6	10.8
Jackson	440.1	...	22.3	72.4	228.4	117.0
Lauderdale	157.9	...	6.3	63.2	50.5	37.9
Lawrence	192.5	...	15.6	83.2	72.8	20.8
Limestone	110.6	...	17.5	64.0	29.1	...
Madison	198.0	...	49.5	42.4	56.6	49.5
Marshall	198.7	...	24.8	99.3	55.9	18.6
Morgan	157.3	4.8	28.6	71.5	38.1	14.3
All counties	2,187.7	61.9	226.0	694.3	884.7	320.8

1 Totals may not add due to rounding.

Table 8.--*Commercial forest land by physiographic site class,*[1] *1982*

County	All sites	Pine	Upland hardwood	Bottomland hardwood
	thousand acres			
Colbert	213.4	170.7	26.7	16.0
De Kalb	259.1	252.6	6.5	...
Franklin	260.1	249.3	10.8	...
Jackson	440.1	189.4	222.8	27.9
Lauderdale	157.9	82.1	75.8	...
Lawrence	192.5	130.1	46.8	15.6
Limestone	110.6	23.3	64.0	23.3
Madison	198.0	42.4	106.1	49.5
Marshall	198.7	180.0	18.6	...
Morgan	157.3	124.0	14.3	19.1
All counties	2,187.7	1,443.9	592.5	151.3

1 Totals may not add due to rounding.

Table 9.--*Commercial forest land by site class and stand-size class,*[1] *1982*

Stand-size class	All classes	165 ft^3 or more	120-165 ft^3	85-120 ft^3	50-85 ft^3	Less than 50 ft^3
	thousand acres					
Sawtimber	813.7	15.5	129.1	315.1	282.8	71.2
Poletimber	873.5	29.1	75.8	254.0	341.7	172.9
Sapling and Seedling	472.6	17.2	21.1	119.0	238.6	76.7
Nonstocked areas	27.9	...	...	6.2	21.6	...
All classes	2,187.7	61.9	226.0	694.3	884.7	320.8

1 Totals may not add due to rounding.

Table 10.--*Commercial forest land by forest type and stand-size class,*[1] *1982*

Stand-size class	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Nonstocked areas
	thousand acres						
Sawtimber	813.7	156.0	104.0	489.7	64.1	...	...
Poletimber	873.5	223.4	124.4	473.3	47.1	5.3	...
Sapling and Seedling	472.6	140.9	57.6	251.5	22.5	...	...
Nonstocked areas	27.9	...	...	...	...	...	27.9
All classes	2,187.7	520.3	286.0	1,214.4	133.7	5.3	27.9

1 Totals may not add due to rounding.

Table 11.--*Growing-stock volume on commercial forest land by species group,*[1] *1982*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	million cubic feet							
Colbert	175.3	48.4	47.6	0.9	126.8	64.1	14.5	48.2
De Kalb	275.8	149.1	149.1	...	126.7	72.0	19.0	35.7
Franklin	222.7	76.8	73.9	2.9	145.9	72.9	10.8	62.1
Jackson	389.4	53.4	42.3	11.1	336.0	168.5	33.1	134.4
Lauderdale	148.4	42.8	42.8	...	105.6	67.4	9.9	28.3
Lawrence	207.5	68.3	60.2	8.1	139.2	83.2	20.9	35.0
Limestone	148.6	16.2	16.2	...	132.4	71.2	13.3	47.9
Madison	201.9	41.3	29.7	11.6	160.6	60.0	23.0	77.6
Marshall	237.7	100.7	98.2	2.5	137.0	58.1	28.4	50.5
Morgan	192.9	72.0	69.8	2.2	120.9	54.0	29.4	37.5
All counties	2,200.2	669.0	629.7	39.2	1,531.2	771.5	202.4	557.2

1 Totals may not add due to rounding.

Table 12.--*Growing-stock volume in the saw-log portion of sawtimber trees on commercial forest land by species group,*[1] *1982*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	million cubic feet							
Colbert	67.4	15.4	14.6	0.8	52.0	30.6	2.2	19.2
De Kalb	134.5	76.6	76.6	...	58.0	32.1	8.0	17.9
Franklin	105.0	30.3	29.4	0.9	74.7	35.8	2.4	36.5
Jackson	224.3	33.6	28.6	5.0	190.7	107.5	15.7	67.6
Lauderdale	77.7	28.6	28.6	...	49.1	30.1	2.3	16.7
Lawrence	96.4	36.6	33.9	2.6	59.8	35.8	7.7	16.3
Limestone	90.0	12.0	12.0	...	78.0	47.1	6.6	24.3
Madison	104.2	27.4	20.6	6.8	76.9	36.4	4.5	35.9
Marshall	129.5	65.1	65.1	...	64.5	31.2	10.2	23.1
Morgan	104.3	41.8	40.1	1.8	62.5	24.9	15.5	22.0
All counties	1,133.4	367.3	349.5	17.8	766.1	411.5	75.2	279.4

1 Totals may not add due to rounding.

Table 13.--*Sawtimber volume on commercial forest land by species group,*[1] *1982*

County	All species	Softwood			Hardwood			
		Total	Pine	Other	Total	Oak	Gum	Other
	million board feet							
Colbert	403.6	85.6	81.8	3.8	318.0	187.9	12.2	117.9
De Kalb	794.9	444.0	444.0	...	350.9	192.3	48.1	110.5
Franklin	632.2	172.8	167.3	5.5	459.4	220.7	14.7	224.0
Jackson	1,370.4	190.2	166.4	23.9	1,180.2	664.5	94.8	420.8
Lauderdale	462.3	166.9	166.9	...	295.4	179.3	11.7	104.4
Lawrence	583.2	211.3	196.2	15.1	371.9	220.4	48.7	102.8
Limestone	568.2	74.3	74.3	...	493.9	296.7	42.9	154.3
Madison	633.3	156.4	122.6	33.8	476.9	225.7	28.9	222.3
Marshall	777.6	389.3	389.3	...	388.3	190.8	57.5	140.1
Morgan	625.6	239.2	229.7	9.5	386.4	151.7	95.9	138.8
All counties	6,851.1	2,130.0	2,038.4	91.6	4,721.1	2,529.9	455.4	1,735.8

1 Totals may not add due to rounding.

Table 14.--*Growing-stock volume of softwoods on commercial forest land by forest type,*[1] *1982*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	million cubic feet					
Colbert	48.4	28.3	11.4	7.7	...	1.0
De Kalb	149.1	104.1	36.9	8.1	...	...
Franklin	76.8	46.7	18.4	11.7	...	...
Jackson	53.4	30.0	15.4	8.0	...	...
Lauderdale	42.8	35.8	4.0	2.9	...	...
Lawrence	68.3	51.7	13.7	1.6	1.3	...
Limestone	16.2	11.8	...	4.4	...	...
Madison	41.3	12.9	9.8	3.2	15.4	...
Marshall	100.7	77.7	20.3	2.8	...	...
Morgan	72.0	50.6	14.9	6.5	...	...
All counties	669.0	449.8	144.8	56.7	16.6	1.0

1 Totals may not add due to rounding.

Table 15.--*Growing-stock volume of hardwoods on commercial forest land by forest type,*[1] *1982*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Nonstocked areas
	million cubic feet						
Colbert	126.8	6.0	18.7	89.1	10.8	2.3	...
De Kalb	126.7	13.7	27.0	85.9	...	...	...
Franklin	145.9	11.7	20.6	113.6	...	...	...
Jackson	336.0	11.4	32.4	282.6	9.6	...	...
Lauderdale	105.6	2.1	7.6	95.9	...	...	...
Lawrence	139.2	8.4	24.4	88.1	17.7	...	0.7
Limestone	132.4	8.2	...	80.6	43.6	...	...
Madison	160.6	3.5	7.6	99.6	50.0	...	...
Marshall	137.0	11.5	18.6	105.7	...	...	1.2
Morgan	120.9	6.9	19.9	65.9	28.2	...	...
All counties	1,531.2	83.4	176.9	1,106.9	159.8	2.3	1.9

1 Totals may not add due to rounding.

Table 16.--*Softwood growing-stock volume in the saw-log portion of sawtimber trees on commercial forest land,*[1] *1982*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
	million cubic feet					
Colbert	15.4	5.4	6.0	2.9	...	1.1
De Kalb	76.6	50.0	21.2	5.3	...	...
Franklin	30.3	19.4	7.7	3.2	...	...
Jackson	33.6	20.2	8.3	5.1	...	...
Lauderdale	28.6	27.8	0.8	...	...	...
Lawrence	36.6	24.9	9.6	1.5	0.5	...
Limestone	12.0	8.5	...	3.5	...	...
Madison	27.4	6.3	7.7	1.8	11.6	...
Marshall	65.1	46.5	17.3	1.3	...	...
Morgan	41.8	26.6	11.5	3.7	...	...
All counties	367.3	235.5	90.2	28.5	12.1	1.1

1 Totals may not add due to rounding.

Table 17.--*Hardwood growing-stock volume in the saw-log portion of sawtimber trees on commercial forest land,*[1] *1982*

County	All types	Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Oak-gum-cypress	Nonstocked areas
	million cubic feet					
Colbert	52.0	3.5	8.6	35.5	4.4	...
De Kalb	58.0	5.1	7.6	45.2	...	...
Franklin	74.7	5.9	8.8	60.0	...	...
Jackson	190.7	5.0	11.6	167.8	6.3	...
Lauderdale	49.1	0.7	3.1	45.4	...	...
Lawrence	59.8	2.7	11.3	42.2	3.0	0.6
Limestone	78.0	7.1	...	46.2	24.6	...
Madison	76.9	...	4.4	52.6	19.8	...
Marshall	64.5	3.6	9.1	51.3	...	0.5
Morgan	62.5	2.1	11.6	30.0	18.7	...
All counties	766.1	35.8	76.1	576.3	76.7	1.2

1 Totals may not add due to rounding.

Table 18.--*Growing-stock volume of softwoods on commercial forest land by stand-size class,*[1] *1982*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	million cubic feet				
Colbert	48.4	15.5	25.3	7.6	...
De Kalb	149.1	74.4	65.0	9.7	...
Franklin	76.8	31.5	39.6	5.7	...
Jackson	53.4	21.7	30.7	1.0	...
Lauderdale	42.8	27.8	11.4	3.6	...
Lawrence	68.3	37.7	25.1	5.5	...
Limestone	16.2	14.0	2.1	...	...
Madison	41.3	24.5	13.6	3.2	...
Marshall	100.7	68.9	30.8	1.0	...
Morgan	72.0	40.5	26.2	5.3	...
All counties	669.0	356.4	269.9	42.6	...

1 Totals may not add due to rounding.

Table 19.--*Growing-stock volume of hardwoods on commercial forest land by stand-size class,*[1] *1982*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	million cubic feet				
Colbert	126.8	48.4	71.5	7.0	...
De Kalb	126.7	74.5	31.9	20.2	...
Franklin	145.9	79.4	62.9	3.6	...
Jackson	336.0	204.7	102.6	28.7	...
Lauderdale	105.6	40.8	60.9	4.0	...
Lawrence	139.2	63.3	69.0	6.2	0.7
Limestone	132.4	92.0	30.3	10.2	...
Madison	160.6	85.2	69.4	6.0	...
Marshall	137.0	96.2	35.5	4.1	1.2
Morgan	120.9	79.2	37.3	4.4	...
All counties	1,531.2	863.7	571.1	94.4	1.9

1 Totals may not add due to rounding.

Table 20.--*Softwood growing-stock volume in the saw-log portion of sawtimber trees on commercial forest land by stand-size class,*[1] *1982*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	million cubic feet				
Colbert	15.4	8.8	4.0	2.6	...
De Kalb	76.6	48.7	23.8	4.1	...
Franklin	30.3	17.1	11.5	1.7	...
Jackson	33.6	17.2	15.5	0.8	...
Lauderdale	28.6	25.1	0.8	2.7	...
Lawrence	36.6	28.9	7.7	...	...
Limestone	12.0	10.8	1.2	...	...
Madison	27.4	19.3	5.8	2.2	...
Marshall	65.1	57.0	8.1	...	...
Morgan	41.8	31.0	7.3	3.5	...
All counties	367.3	263.9	85.7	17.7	...

1 Totals may not add due to rounding.

Table 21.--*Hardwood growing-stock volume in the saw-log portion of sawtimber trees on commercial forest land by stand-size class,*[1] *1982*

County	All classes	Sawtimber	Poletimber	Sapling and seedling	Nonstocked areas
	million cubic feet				
Colbert	52.0	24.7	25.8	1.5	...
De Kalb	58.0	43.8	6.8	7.4	...
Franklin	74.7	49.0	24.5	1.3	...
Jackson	190.7	142.4	33.9	14.4	...
Lauderdale	49.1	25.9	20.4	2.9	...
Lawrence	59.8	37.2	20.3	1.7	0.6
Limestone	78.0	61.0	13.4	3.5	...
Madison	76.9	59.0	16.1	1.8	...
Marshall	64.5	52.2	8.7	3.1	0.5
Morgan	62.5	50.0	10.2	2.3	...
All counties	766.1	545.1	180.0	39.8	1.2

1 Totals may not add due to rounding.

Table 22.--*Growing-stock volume on commercial forest land by physiographic site class and species group,*[1] *1982*

County	All sites	Pine		Upland hardwood		Bottomland hardwood	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	million cubic feet						
Colbert	175.3	47.4	90.3	...	23.5	1.0	13.0
De Kalb	275.8	149.1	124.0	...	2.6	...	...
Franklin	222.7	76.5	139.0	0.3	6.9	...	...
Jackson	389.4	45.3	116.4	8.1	210.0	...	9.6
Lauderdale	148.4	42.8	43.8	...	61.8	...	...
Lawrence	207.5	59.8	73.4	7.3	47.5	1.3	18.4
Limestone	148.6	15.1	22.2	1.1	66.6	...	43.6
Madison	201.9	14.1	19.3	2.2	85.1	25.0	56.3
Marshall	237.7	100.7	116.7	...	20.4	...	...
Morgan	192.9	72.0	77.3	...	15.4	...	28.2
All counties	2,200.2	622.8	822.3	18.9	539.8	27.2	169.0

1 Totals may not add due to rounding.

Table 23.--*Volume of timber on commercial forest land by class of timber and species group,*[1] *1982*

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	million cubic feet						
Colbert	213.5	48.4	126.8	2.2	24.3	0.9	10.9
De Kalb	352.2	149.1	126.7	5.9	42.6	3.1	24.9
Franklin	269.5	76.8	145.9	9.1	29.6	1.0	7.2
Jackson	492.1	53.4	336.0	4.2	66.9	...	31.6
Lauderdale	198.4	42.8	105.6	9.9	24.8	...	15.3
Lawrence	247.5	68.3	139.2	4.8	19.9	...	15.3
Limestone	181.5	16.2	132.4	...	18.5	...	14.5
Madison	274.2	41.3	160.6	2.2	44.2	5.6	20.4
Marshall	294.8	100.7	137.0	7.8	29.3	...	20.0
Morgan	226.8	72.0	120.9	2.1	23.9	...	7.9
All counties	2,750.6	669.0	1,531.2	48.1	323.8	10.6	168.0

1 Totals may not add due to rounding.

Table 24.--*Number of growing-stock trees by species and diameter class,*[1] *1982*

Species	Diameter class (inches at breast height)										
	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	thousand trees										
Softwood:											
Shortleaf pine	16,301	5,129	6,567	2,594	1,319	572	95	23	...	...	...
Loblolly pine	32,871	13,878	8,214	4,618	2,894	1,676	647	535	176	230	...
Virginia pine	20,881	9,306	6,184	3,080	1,643	519	147	...	...	...	...
Redcedar	8,098	3,903	2,622	1,189	226	116	...	23	16	...	...
Hemlock	40	...	...	...	...	40	...	...	...	...	...
Cypress	913	279	141	196	295	...	...	...	...	...	...
Total	79,106	32,495	23,730	11,679	6,379	2,925	889	582	192	230	...
Hardwood:											
Select white oaks[2]	22,565	8,596	3,702	4,132	2,588	1,542	919	553	320	168	41
Select red oaks[3]	5,381	1,400	928	827	881	494	257	373	159	52	7
Other white oaks	15,528	5,387	3,505	2,611	1,685	1,155	550	287	217	126	...
Other red oaks	28,299	8,542	7,179	4,033	3,584	2,463	1,453	520	276	227	18
Other hickories	31,241	10,874	8,539	4,968	4,056	1,381	755	317	186	161	...
Persimmon	1,567	927	582	...	57	...	...	...	...	...	...
Hard maple	2,950	1,534	748	394	115	87	70	...	...	...	...
Soft maple	2,530	1,395	377	267	179	159	64	50	...	35	...
Boxelder	201	201	...	...	...	...	...	...	...	...	...
Beech	178	...	...	...	54	77	...	...	...	47	...
Sweetgum	19,675	7,460	6,448	3,080	1,397	739	231	164	139	14	...
Blackgum	5,258	1,394	1,171	1,479	652	286	190	26	38	18	...
White ash	3,140	1,130	605	809	197	200	130	21	19	25	...
Other ashes	2,260	1,368	473	250	54	113	...	...	...	...	...
Sycamore	636	233	216	...	...	100	37	...	20	27	...
Basswood	183	...	...	...	95	54	33	...	...	...	...
Yellow-poplar	7,308	2,376	1,578	1,077	877	670	260	266	122	71	7
Magnolia	97	...	...	...	56	41	...	...	...	...	...
Willow	90	...	...	90	...	...	...	...	...	...	...
Black walnut	871	355	320	...	73	89	31	...	...	...	...
Black cherry	858	286	255	212	104	...	...	...	...	...	...
American elm	884	...	350	257	164	...	35	75	...	...	...
Other elms	3,184	1,657	967	229	145	81	...	54	22	25	...
River Birch	187	...	...	...	80	45	...	...	48	13	...
Hackberry	1,271	237	236	452	266	...	61	...	...	16	...
Black locust	1,090	589	255	166	78	...	...	...	...	...	...
Other locusts	216	216	...	...	...	...	...	...	...	...	...
Sassafras	288	166	...	90	...	...	31	...	...	...	...
Dogwood	2,152	2,152	...	...	...	...	...	...	...	...	...
Holly	253	253	...	...	...	...	...	...	...	...	...
Other commercial	320	...	138	182	...	...	...	...	...	...	...
Total	160,674	58,739	38,582	25,613	17,448	9,784	5,114	2,711	1,572	1,032	74
All species	239,780	91,235	62,313	37,293	23,828	12,710	6,004	3,293	1,764	1,262	74

1 Totals may not add due to rounding.

2 Includes white, swamp chestnut, chinkapin, and bur oaks.

3 Includes northern red, shumard and cherrybark oaks.

Table 25.--*Number of live trees by species and diameter class,*[1] *1982*

Species	Diameter class (inches at breast height)												
	All classes	1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	thousand trees												
Softwood:													
Shortleaf pine	37,435	11,645	8,608	5,708	6,821	2,594	1,367	572	95	23	...	...	...
Loblolly pine	87,026	29,989	22,119	14,951	8,481	4,880	2,998	1,808	803	535	197	260	...
Virginia pine	64,480	23,278	16,983	11,108	6,733	3,573	1,955	560	256	30	...	...	...
Redcedar	60,642	36,707	12,291	6,407	2,982	1,665	431	116	...	23	16	...	...
Hemlock	4,512	3,974	496	...	...	...	...	40	...	...	...	...	...
Cypress	913	...	...	279	141	196	295	...	...	...	...	...	...
Total	255,010	105,597	60,499	38,455	25,158	12,910	7,048	3,098	1,155	612	214	260	...
Hardwood:													
Select white oaks	97,820	47,333	23,708	9,355	4,865	4,811	3,118	2,015	1,129	750	405	284	41
Select red oaks	18,443	7,330	3,418	1,849	1,303	1,256	1,458	585	368	553	238	61	18
Other white oaks	83,716	38,828	24,124	7,487	4,410	3,141	2,338	1,368	945	447	320	272	32
Other red oaks	97,470	49,265	16,281	9,099	7,743	4,403	4,381	2,850	1,793	735	441	448	26
Other hickories	163,143	92,179	30,591	15,740	10,276	6,046	4,661	1,617	1,143	448	243	178	18
Persimmon	22,714	18,096	2,533	1,211	582	171	120	...	...	...	...	...	...
Hard maple	44,320	34,648	5,955	1,854	830	394	359	131	121	24	...	...	...
Soft maple	79,183	59,231	10,821	5,138	1,484	697	448	404	487	242	78	150	...
Boxelder	863	510	...	201	122	...	...	...	28	...	...	...	...
Beech	4,636	2,010	1,464	575	101	110	54	117	...	26	39	128	9
Sweetgum	80,069	37,345	20,160	9,062	6,824	3,404	1,739	776	401	190	139	24	...
Blackgum	78,702	60,184	9,489	3,750	1,761	1,876	822	448	219	51	38	59	...
Other gums	47	...	...	...	...	...	...	...	25	21	...	...	...
White ash	44,529	31,380	8,092	2,207	741	1,139	197	275	263	89	82	59	...
Other ashes	13,523	9,967	533	1,567	842	320	106	185	...	...	...	...	...
Sycamore	3,103	978	1,467	233	216	...	...	100	37	...	42	27	...
Basswood	2,271	1,890	...	...	...	70	95	148	33	33	...	...	...
Yellow-poplar	21,774	12,084	1,532	2,376	1,923	1,170	1,001	746	288	345	143	122	39
Magnolia	2,394	1,145	1,021	...	...	68	56	83	...	...	19	...	...
Willow	671	489	...	...	...	90	92	...	...	...	...	...	...
Black walnut	3,447	1,865	496	569	320	...	73	89	31	...	...	...	...
Black cherry	21,347	16,190	3,456	845	255	212	226	43	68	...	34	14	...
American elm	22,839	17,636	3,987	242	350	326	164	...	35	75	20	...	...
Other elms	52,318	37,744	10,837	1,866	1,054	309	248	154	...	54	22	25	...
River birch	187	...	...	...	...	...	80	45	...	...	48	13	...
Other birches	587	510	...	...	...	76	...	...	...	...	...	...	...
Hackberry	19,795	14,673	2,681	856	493	543	391	...	61	67	...	27	...
Black locust	4,151	1,296	1,615	589	255	244	149	...	...	...	...	...	...
Other locusts	1,886	510	1,159	216	...	...	...	...	...	...	...	...	...
Sassafras	29,357	24,130	4,600	166	307	90	...	...	31	30	...	...	...
Dogwood	96,789	74,311	19,626	2,651	135	66	...	...	...	...	...	...	...
Holly	253	...	...	253	...	...	...	...	...	...	...	...	...
Other commercial	7,018	5,569	...	310	692	323	62	...	28	30	...	...	...
Total	1,119,377	699,339	209,656	80,280	47,895	31,365	22,447	12,187	7,543	4,219	2,357	1,898	186
Noncommercial	164,961	125,013	30,646	6,455	2,088	496	222	37	...	...	...	...	...
All species	1,539,349	929,950	300,802	125,191	75,142	44,772	29,719	15,324	8,699	4,831	2,571	2,159	186

1 Totals may not add due to rounding.

Table 26.--*Growing-stock volume on commercial forest land by species and diameter class,*[1] *1982*

Species	Diameter class (inches at breast height)										
	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	million cubic feet										
Softwood:											
Shortleaf pine	140.1	15.1	47.9	31.8	25.0	15.4	3.6	1.3	...	...	...
Loblolly pine	328.4	35.1	50.4	56.8	56.1	46.6	25.3	27.5	10.7	19.9	...
Virginia pine	161.2	27.9	52.9	36.1	28.9	11.1	4.3	...	...	...	...
Redcedar	30.0	5.5	8.9	7.8	2.9	2.8	...	1.0	1.0	...	...
Hemlock	1.1	...	...	...	...	1.1	...	...	...	...	...
Cypress	8.2	0.1	0.9	2.3	4.9	...	...	...	...	...	...
Total	669.0	83.7	161.1	134.8	117.9	77.0	33.1	29.8	11.7	19.9	...
Hardwood:											
Select white oaks	234.2	17.1	20.9	37.9	36.5	36.3	27.4	22.5	16.9	12.9	5.9
Select red oaks	78.0	2.7	4.7	7.9	13.0	11.4	8.5	16.4	8.5	3.8	1.0
Other white oaks	152.0	14.9	17.6	22.9	24.7	25.0	16.3	11.2	11.0	8.6	...
Other red oaks	307.3	24.2	39.0	40.7	53.5	52.6	43.0	20.6	13.4	18.0	2.4
Other hickories	272.1	21.0	47.9	47.8	65.2	30.8	23.9	12.7	10.9	11.9	...
Persimmon	6.9	2.8	3.2	...	0.9	...	...	...	...	...	...
Hard maple	18.9	5.0	4.3	3.6	1.7	1.9	2.4	...	...	...	...
Soft maple	19.8	3.1	2.2	2.0	2.6	3.3	1.9	2.1	...	2.6	...
Boxelder	0.2	0.2	...	...	...	...	...	...	...	...	...
Beech	5.5	...	...	...	0.6	1.6	...	...	...	3.3	...
Sweetgum	155.5	15.8	37.8	32.7	25.1	19.5	7.6	7.8	8.0	1.2	...
Blackgum	46.9	3.2	5.1	12.8	9.8	6.5	5.0	1.2	1.9	1.4	...
White ash	29.8	2.7	3.3	7.8	2.8	4.7	3.8	1.1	1.2	2.4	...
Other ashes	13.8	4.3	2.9	3.7	0.3	2.6	...	...	...	...	...
Sycamore	8.7	0.6	1.2	...	...	1.9	1.2	...	1.1	2.6	...
Basswood	4.1	...	...	...	1.9	1.3	1.0	...	...	...	...
Yellow-poplar	101.5	9.5	10.3	12.2	15.8	18.8	9.1	11.3	6.4	7.0	1.1
Magnolia	1.8	...	...	...	0.9	0.9	...	...	...	...	...
Willow	0.7	...	...	0.7	...	...	...	...	...	...	...
Black walnut	5.1	0.5	1.7	...	1.0	1.4	0.6	...	...	...	...
Black cherry	4.9	0.3	1.2	1.6	1.7	...	...	...	...	...	...
American elm	9.9	...	1.5	2.4	1.9	...	1.1	3.0	...	...	...
Other elms	19.3	3.2	4.5	1.9	2.6	1.7	...	2.2	1.1	2.1	...
River birch	6.0	...	...	...	0.9	1.1	...	...	2.4	1.5	...
Hackberry	14.4	0.6	2.0	4.7	4.1	...	1.9	...	...	1.0	...
Black locust	5.1	1.0	1.7	1.3	1.0	...	...	...	...	...	...
Other locusts	0.6	0.6	...	...	...	...	...	...	...	...	...
Sassafras	2.3	0.5	...	0.7	...	...	1.1	...	...	...	...
Dogwood	2.8	2.8	...	...	...	...	...	...	...	...	...
Holly	0.3	0.3	...	...	...	...	...	...	...	...	...
Other commercial	3.0	...	0.6	2.4	...	...	...	...	...	...	...
Total	1,531.2	136.7	213.8	247.8	268.3	223.4	155.7	112.1	82.7	80.2	10.4
All species	2,200.2	220.4	375.0	382.5	386.2	300.4	188.9	141.9	94.4	100.0	10.4

[1] Totals may not add due to rounding.

Table 27.--*Growing-stock volume in the saw-log portion of sawtimber trees on commercial forest land by diameter class and species,*[1] *1982*

Species	Diameter class (inches at breast height)								
	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
	million cubic feet								
Softwood:									
Shortleaf pine	74.4	26.3	26.9	16.6	3.5	1.0	...	...	...
Loblolly pine	216.1	43.4	58.8	48.4	23.8	23.1	7.9	10.7	...
Virginia pine	59.0	18.4	26.2	9.9	4.5	...	...	...	...
Redcedar	10.8	4.4	2.2	2.4	...	0.9	0.9	...	...
Hemlock	0.9	...	...	0.9	...	...	...	...	...
Cypress	6.1	1.9	4.2	...	...	...	...	...	...
Total	367.3	94.5	118.2	78.3	31.8	25.0	8.7	10.7	...
Hardwood:									
Select white oaks	125.3	...	21.2	30.5	24.3	20.6	14.7	10.4	3.6
Select red oaks	50.6	...	7.6	9.7	7.7	14.4	7.3	3.2	0.6
Other white oaks	75.7	...	14.3	20.6	14.6	10.0	9.5	6.8	...
Other red oaks	159.8	...	32.5	42.5	38.2	18.4	11.8	14.5	1.8
Other hickories	137.6	...	55.6	28.3	22.2	11.7	9.7	10.1	...
Persimmon	0.7	...	0.7	...	...	...	...	...	...
Hard maple	5.4	...	1.5	1.8	2.1	...	...	...	...
Soft maple	11.1	...	2.2	3.0	1.7	1.9	...	2.2	...
Beech	4.8	...	0.5	1.5	...	...	...	2.8	...
Sweetgum	52.6	...	13.8	17.9	7.6	7.1	5.7	0.4	...
Blackgum	22.6	...	8.1	5.9	4.7	1.1	1.7	1.2	...
White ash	14.0	...	2.2	4.3	3.6	1.0	1.0	1.9	...
Other ashes	2.6	...	0.2	2.4	...	...	...	...	...
Sycamore	6.0	...	...	1.8	1.1	...	1.0	2.1	...
Basswood	3.6	...	1.6	1.1	0.8	...	...	...	...
Yellow-poplar	61.3	...	13.4	16.8	8.2	10.3	5.8	5.9	0.8
Magnolia	1.3	...	0.4	0.9	...	...	...	...	...
Black walnut	2.6	...	0.8	1.3	0.6	...	...	...	...
Black cherry	1.5	...	1.5	...	...	...	...	...	...
American elm	5.2	...	1.4	...	1.0	2.7	...	...	...
Other elms	8.6	...	2.3	1.6	...	2.0	1.0	1.7	...
River birch	5.1	...	0.7	1.1	...	...	2.2	1.2	...
Hackberry	6.2	...	3.6	...	1.8	...	...	0.9	...
Black locust	0.9	...	0.9	...	...	...	...	...	...
Sassafras	1.0	...	...	...	1.0	...	...	...	...
Total	766.1	...	187.0	192.9	141.4	101.1	71.5	65.2	6.9
All species	1,133.4	94.5	305.2	271.2	173.2	126.2	80.3	75.9	6.9

1 Totals may not add due to rounding.

Table 28.--*Volume of timber on commercial forest land by species and class of timber,*[1] *1982*

Species	All live	Growing stock	Rough	Rotten
	million cubic feet			
Softwood:				
Shortleaf pine	143.3	140.1	3.3	...
Loblolly pine	350.0	328.4	19.4	2.1
Virginia pine	185.7	161.2	20.2	4.3
Redcedar	39.4	30.0	5.2	4.2
Hemlock	1.1	1.1	...	...
Cypress	8.2	8.2	...	...
Total	727.7	669.0	48.1	10.6
Hardwood:				
Select white oaks	283.6	234.2	36.8	12.6
Select red oaks	108.2	78.0	19.0	11.2
Other white oaks	207.2	152.0	37.0	18.2
Other red oaks	375.0	307.3	33.1	34.5
Other hickories	325.4	272.1	25.4	27.9
Persimmon	8.7	6.9	1.2	0.6
Hard maple	26.0	18.9	3.2	4.0
Soft maple	79.0	19.8	45.8	13.4
Boxelder	1.1	0.2	0.9	...
Beech	18.7	5.5	5.6	7.6
Sweetgum	179.6	155.5	19.3	4.8
Blackgum	64.1	46.9	10.6	6.6
Other gums	1.9	...	...	1.9
White ash	47.1	29.8	8.5	8.9
Other ashes	17.5	13.8	3.6	...
Sycamore	9.6	8.7	1.0	...
Basswood	7.9	4.1	2.4	1.4
Yellow-poplar	124.2	101.5	11.4	11.4
Magnolia	4.4	1.8	1.5	1.0
Willow	1.8	0.7	0.8	0.3
Black walnut	5.5	5.1	0.4	...
Black cherry	13.0	4.9	7.0	1.1
American elm	11.8	9.9	2.0	...
Other elms	23.8	19.3	4.5	...
River birch	6.0	6.0	...	...
Other birches	0.5	...	0.5	...
Hackberry	23.8	14.4	9.5	...
Black locust	6.2	5.1	0.9	0.2
Other locusts	0.6	0.6	...	...
Sassafras	4.1	2.3	1.8	...
Dogwood	4.2	2.8	1.5	...
Holly	0.3	0.3	...	...
Other commercial	6.1	3.0	2.7	0.4
Total	1,997.1	1,531.2	298.0	168.0
Noncommercial	25.8	...	25.8	...
All species	2,750.6	2,200.2	371.9	178.6

1 Totals may not add due to rounding.

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1983. Forest statistics for North Alabama counties. U.S. Dep. Agric. For. Serv. Resourc. Bull. SO-95 15p South. For. Exp. Stn., New Orleans, La.

Tabulates forest resource information from a new inventory of the North Unit of Alabama.

Additional Keywords: Area, volume forest-type, stand-size, ownership.

☆U.S. GOVERNMENT PRINTING OFFICE: 1983- 669-085/27