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Forest Statistics for Central Mississippi Counties - 1987

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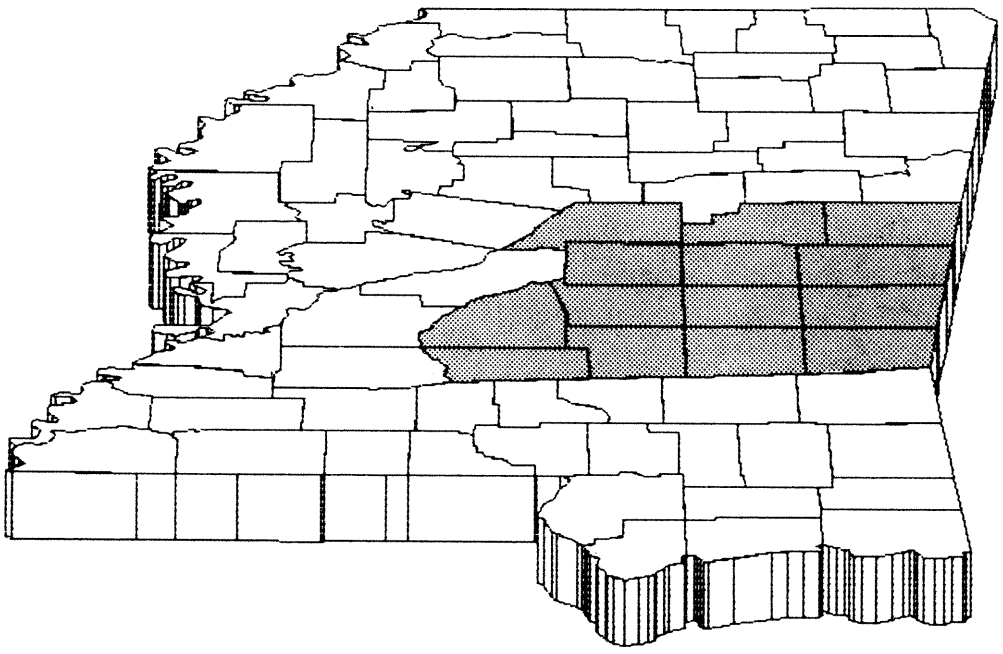

SUMMARY

The 1987 survey of the 14 counties in the Central Mississippi unit indicated the following changes since the previous survey in 1977:

* Timberland area, now covering 4,097.0 thousand acres, has increased 6 percent.
* Forest industry-owned timberland increased 112.5 thousand acres, or 13 percent.
* Pine forest types decreased by 11 percent.
* Oak-pine and oak-hickory forest types increased by 12 and 41 percent respectively.
* Sapling-seedling stands increased 29 percent; poletimber stands decreased 15 percent; sawtimber stands increased 4 percent.
* Planted area increased 275.6 thousand acres, a 90 percent increase.
* Softwood growing-stock volume decreased 2 percent; softwood sawtimber volume increased 12 percent.
* Hardwood growing-stock volume increased 20 percent; hardwood sawtimber volume increased 29 percent.
* Net growth of softwood growing stock decreased by 21 percent.
* Net growth of hardwood growing stock increased by 22 percent.
* Removals of growing stock increased 34 percent. Softwood removals increased 36 percent; softwood removals now exceed growth. Hardwood removals increased by 31 percent.
* Mortality of growing stock increased 87 percent.

FOREWORD

The Southern Forest Survey, an activity of the Southern Forest Experiment Station Forest Inventory and Analysis work unit, covers the States of Alabama, Arkansas, Louisiana, Mississippi, Oklahoma, Tennessee, and East Texas, and the island of Puerto Rico.

This survey is part of the nationwide Forest Survey originally authorized by the McSweeney-McNary Act of 1928. More recent legislation pertinent to the survey mission includes the Forest and Rangeland Renewable Resources Planning Act of 1974 and the Forest and Rangeland Renewable Resources Research Act of 1978. The survey mission is to develop, analyze, and maintain renewable forest resource information. This information is essential for formulation of forest policies and programs.

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*Core tables are presented in response to the Southern Industrial Forestry Research Council's recommendations. These tables are identical among Forest Inventory and Analysis units in the eastern United States.

ERRATA

P. 23, table 29 -- Eliminate "by timberland" in caption

P. 26 -- Change "Million cubic feet" to "Thousand trees."

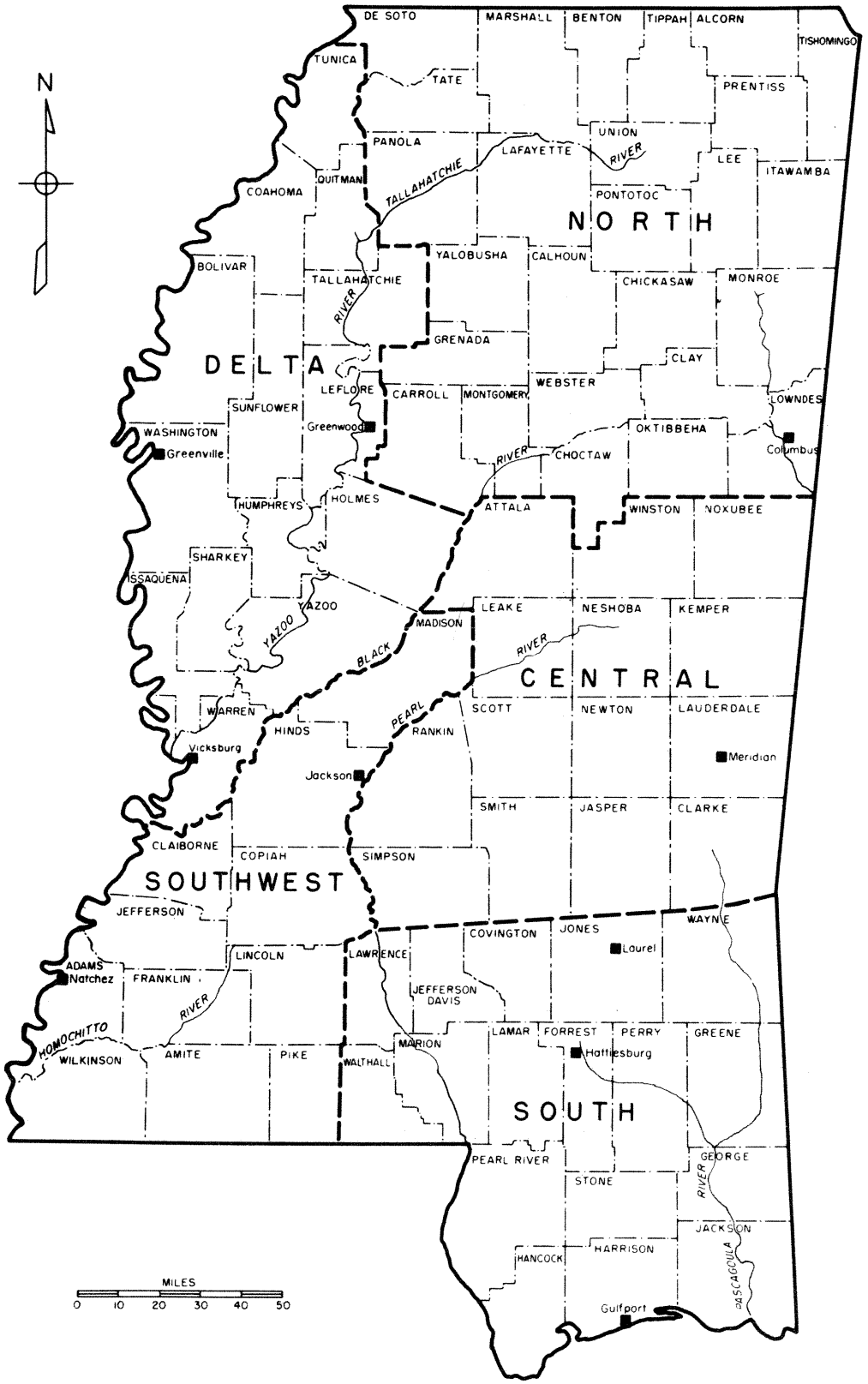

Figure I.–The forest survey regions of Mississippi

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INTRODUCTION

The tables in this report were derived from data obtained from an inventory of 14 counties comprising the Central Unit of Mississippi (Fig. I). The data on forest acreage and timber volume were secured by a three-step process. A forest-nonforest classification was accomplished on aerial photographs for points representing approximately 230 acres. These photo classifications were adjusted on the basis of ground observations at sample locations representing approximately 3,840 acres. Finally, forest locations at the intersections of a grid of lines spaced 3 miles apart were subjected to on-the-ground measurements. At these forest locations, per-acre estimates were obtained from trees measured on ten 37.5 basal area factor prism points.

The sampling methods were designed to achieve suitable sampling errors for estimates of area and volume at the State level. Sampling error increases as the area or volume considered decreases. The sampling errors presented in Table I, equal to one standard deviation for the sample data, may be used to construct confidence intervals for population parameters. For example, at the 95 percent confidence level, the confidence interval for growing-stock volume (in million cubic feet) in Central Mississippi (with a sampling error of 3.2 percent) is

$$4,984.6 \pm 1.96(0.032 \text{x} 4,984.6) = 4,984.6 \pm 312.6$$

where 1.96 is the number of standard deviations. This confidence interval indicates that the actual growing-stock volume lies in the range 4,672.0 to 5,297.2 million cubic feet, unless a 1 in 20 chance of a random event has occurred.

Table I–*Sampling errors*[1] *for timberland, growing stock, and sawtimber, Central Mississippi, 1987*

County	Timberland	Growing stock			Sawtimber volume
		Volume	Growth	Removals	
	Percent				
Attala	2.1	11.8	9.0	15.6	12.6
Clarke	1.8	12.8	12.2	12.7	15.1
Jasper	2.5	16.0	9.8	17.5	20.8
Kemper	2.0	11.0	10.3	16.4	12.8
Lauderdale	2.2	10.0	8.3	14.4	11.8
Leake	2.5	14.6	9.8	14.7	17.3
Neshoba	2.5	11.9	13.1	22.2	15.0
Newton	2.7	12.6	10.1	22.2	14.4
Noxubee	1.7	11.2	11.2	27.0	13.7
Rankin	1.9	9.9	14.5	22.7	12.5
Scott	2.5	9.7	8.3	19.4	12.2
Simpson	3.2	13.2	10.8	17.4	16.9
Smith	2.7	9.3	10.4	15.0	11.4
Winston	2.2	11.6	11.3	25.4	15.7
All counties	0.6	3.2	2.9	4.9	3.9

[1] By random-sampling formula.

Sampling errors for sub-groups of counties in the unit may be estimated by the following:

$$SE_g = \frac{SE_t\sqrt{X_t}}{\sqrt{X_g}}$$

where:

SE = standard error of estimate (expressed as a percent)
X = variable of interest (area or volume)
g = group of counties to be combined
t = total for the unit.

For comparative purposes, the 1977 survey data, collected from the last complete forest survey of Mississippi, was reprocessed according to current procedures. These procedures included the use of the same methods for estimating growth and removals. Thus, differences between the 1977 and 1987 data should reflect resource changes and not data processing differences. The results from the reprocessed 1977 survey data were used for comparison to the 1987 data in the Highlights that follow.

HIGHLIGHTS

Timberland Area

Total timberland in Mississippi's Central Unit has increased 217.7 thousand acres, from 3,879.3 thousand acres in 1977 to 4,097.0 thousand acres in 1987. With this 6 percent increase in timberland the unit is now 69 percent forested.

The ownership of timberland has increased by small amounts for forest industry and other public timberland. Forest industry lands, including those under long-term lease, increased 112.5 thousand acres, or 13 percent, since 1977. Other public lands increased to 77.1 thousand acres, a 20 percent increase. Other private timberland increased 3 percent to 2,838.0 thousand acres. All public timberland now accounts for 7 percent of the total; forest industry accounts for 24 percent; other private timberland accounts for 69 percent.

Changes in forest types have occurred since the 1977 survey. Pine forest types have decreased 11 percent, but still account for the largest proportion of the resource at 32 percent of total timberland. The oak-pine forest type increased by 12 percent to 918.9 thousand acres. The largest change occurred in the oak-hickory type which increased 362.3 thousand acres, or 41 percent, to 1,241.6 thousand acres. The oak-gum-cypress forest type decreased by 78.4 thousand acres to 614.1 thousand acres.

Shifts are occurring in stand sizes in the Central Mississippi Unit, with the largest change being a 29 percent increase in sapling-seedling stands. The area of sapling-seedling stands increased 284.5 thousand acres since 1977 and now covers 1,253.1 thousand acres. Poletimber stands, on the other hand, decreased 159.3 thousand acres, or 15 percent. Sawtimber stands, while increasing only 4 percent, occupy the largest area at 1,891.9 thousand acres, or 46 percent of the total timberland area.

The large increase in planted stands since 1977 accounted for most of the increase in sapling-seedling stands. Planted stands increased 275.6 thousand acres, or 90 percent, to 582.3 thousand acres.

Number of Trees

The number of all live trees in Central Mississippi declined, principally due to fewer softwoods. While the total number of hardwood trees remained about the same as in 1977, softwood trees decreased by 19 percent. The decrease in the number of softwood trees was concentrated in diameter-at-breast-height (dbh) classes below 14 inches; the number of softwood trees increased in the 14 inch and larger dbh classes. While the number of hardwood trees also increased in the larger dbh classes, they also increased in many smaller classes; only the 4-inch and 12-inch dbh classes showed decreases.

The number of growing-stock trees decreased even more than all live trees, with decreases concentrated in the smaller dbh classes for both hardwoods and softwoods. The number of softwood growing-stock trees decreased by 21 percent, resulting from decreases in the 12-inch and smaller dbh classes; the number of softwood trees in larger classes increased. Hardwood growing-stock trees likewise decreased in number by 43 percent, resulting from decreases in the 6-inch and smaller dbh classes; again, all larger dbh classes showed an increase for hardwood growing-stock trees.

Timber Volume

Softwood growing-stock volume has decreased slightly in the survey period 1977-1987, in contrast to a large increase in the previous survey period. The 1987 survey shows a small decrease of 46.6 million cubic feet, or 2 percent, since 1977. The previous survey indicated an increase of 687.7 million cubic feet, or 32 percent from 1967 to 1977.

While 1987 softwood sawtimber volumes have increased since the 1977 survey, the increase is smaller than in the 1967-1977 period. From 1977 to 1987, softwood sawtimber volume increased 1,367.0 million board feet, or 12 percent. This contrasts with an increase of 3,790.0 million board feet, or 49 percent from 1967 to 1977.

Hardwood volumes have increased since 1977, with the increase somewhat larger than that indicated for the period 1967-1977. Since 1977 hardwood growing stock has increased 368.2 million cubic feet, or 20 percent; hardwood sawtimber increased 1,455.8 million board feet, or 29 percent. From 1967 to 1977, hardwood growing stock increased 15 percent, and hardwood sawtimber increased 15 percent.

The volume of cull trees has increased since 1977, with softwoods showing a larger relative increase. Softwood cull tree volume increased 45 percent to 102.9 million cubic feet. Hardwood cull tree volume increased 19 percent to 473.8 million cubic feet. Hardwoods still account for most of cull tree volume at 82 percent of the total.

Growth, Removals, and Mortality

Total net annual growth has decreased by 9 percent since the 1977 survey, and is due to the decrease in softwood growth; hardwood growth increased. Growth is calculated as an annual average for the inter-survey period, i.e., 1977-1987; removals and mortality are similarly calculated. Virtually all of the decrease in net growth from the previous period (1967-1977) is attributable to softwoods which decreased 21 percent from 194.5 million cubic feet annually in the previous period to 153.4 million cubic feet annually for the current period. Hardwood growth, however, showed an increase from 79.2 million cubic feet annually for the 1967-1977 period to 96.8 million cubic feet annually for the 1977-1987 period, a change of 22 percent.

Growing-stock removals have increased since the 1977 survey for both softwoods and hardwoods. Softwood removals increased 36 percent, from 129.1 million cubic feet in the 1977 survey to 175.3 million cubic feet in the current survey. The current survey indicates that softwood removals now exceed softwood growth by 14 percent; this trend could have serious implications for future industrial expansion. Hardwood removals likewise increased by 31 percent, from 51.2 million cubic feet to 66.9 million cubic feet annually; hardwood growth exceeds removals, however.

Mortality has increased by 87 percent since the 1977 survey, with softwood mortality more than double the previous estimate. The 1987 survey indicates softwood mortality at 25.8 million cubic feet annually, an increase from 10.5 million cubic feet in 1977. Hardwood mortality, now at 15.3 million cubic feet annually, is up 33 percent from the 1977 estimate of 11.5 million cubic feet.

Tables 1–25 were developed to provide compatibility among Forest Inventory and Analysis Projects. Tables 26–36 are supple-

mentary tables and may change from unit to unit or state to state to address specific resource issues.

DEFINITION OF TERMS

Average net annual growth.—Average net annual volume increase for the inter-survey period.

Average annual mortality.—Average annual sound-wood volume of growing-stock trees dying from natural causes.

Average annual removals.—Average net annual volume of growing-stock trees removed from the inventory by harvesting, cultural operations (such as timber-stand improvement), land clearing, or changes in land use.

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

Growing-stock trees.—Live trees of commercial species. Rough and rotten trees are excluded.

Growing-stock volume.—The cubic-foot volume of sound wood in 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.

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.

Reserved timberland.—Productive public forest land withdrawn from timber utilization through statute or administrative regulations.

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. Also included are 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 in diameter at breast height.

Sawtimber volume.—Sound-wood volume of the saw-log portion of live sawtimber trees 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 sampled area; that is, sawtimber, poletimber, or sapling and seedling.

Timberland.—Forest land that is producing, or is capable of producing, crops of industrial wood and not withdrawn from timber utilization. Timberland is synonymous with "commercial forest land" in prior reports.

Tree grade.—A classification of the volume of the saw-log portion of sawtimber trees, based on the log grade of the butt log.

Woodland.—Forest land incapable of yielding crops of industrial wood because of adverse site conditions.

Core Tables 1–25

Table 1—*Area by county and land class, Central Mississippi, 1987*

County	All land[1]	Forest land				Nonforest land
		Total	Timberland[2]	Woodland[3]	Reserved timberland	
	Thousand acres					
Attala	471.5	355.8	355.8	...	...	115.7
Clarke	443.0	356.4	356.4	...	...	86.6
Jasper	433.8	353.4	353.4	...	...	80.4
Kemper	490.5	361.3	361.3	...	...	129.2
Lauderdale	451.0	347.3	347.3	...	...	103.7
Leake	373.9	257.2	257.2	...	...	116.7
Neshoba	365.8	236.3	236.3	...	...	129.5
Newton	371.1	251.1	251.1	...	...	120.0
Noxubee	446.6	212.7	212.7	...	...	233.9
Rankin	500.5	306.7	306.7	...	...	193.8
Scott	390.3	258.4	258.4	...	...	132.0
Simpson	378.0	240.2	240.2	...	...	137.8
Smith	406.5	284.8	284.8	...	...	121.7
Winston	390.2	275.5	275.5	...	...	114.8
All counties	5912.7	4097.0	4097.0	...	...	1815.7

[1] From U.S. Bureau of the Census.

[2] Forest land (formerly termed commercial forest land) that is producing or capable of producing at least 20 cubic feet of industrial wood per acre per year. Includes areas which may be inaccessible or inoperable by current standards. Excludes reserved timberlands.

[3] Forest land incapable of producing 20 cubic feet of industrial wood per acre per year under natural conditions because of adverse site conditions.

Table 2—*Area of timberland by county and ownership class, Central Mississippi, 1987*

County	All ownerships	National forest	Misc. federal	State	County and municipal	Forest industry[1]	Farmer	Corporate[2]	Individual[2]
	Thousand acres								
Attala	355.8	...	5.8	...	...	87.5	70.0	5.8	186.7
Clarke	356.4	...	...	6.3	...	125.1	137.6	12.5	75.0
Jasper	353.4	17.7	...	...	...	94.2	82.5	...	159.0
Kemper	361.3	...	5.6	...	...	116.7	72.3	...	166.7
Lauderdale	347.3	...	5.8	...	11.6	75.2	34.7	5.8	214.1
Leake	257.2	...	...	...	...	92.6	82.3	10.3	72.0
Neshoba	236.3	...	...	...	...	34.5	49.2	9.8	142.8
Newton	251.1	5.5	...	...	...	43.7	114.6	...	87.3
Noxubee	212.7	...	11.5	...	...	63.2	40.2	11.5	86.2
Rankin	306.7	...	...	...	12.3	36.8	73.6	30.7	153.3
Scott	258.4	80.0	...	...	...	36.9	30.8	...	110.7
Simpson	240.2	...	...	...	...	60.1	46.7	6.7	126.8
Smith	284.8	76.7	...	...	...	43.8	16.4	...	147.9
Winston	275.5	24.5	18.4	...	...	67.3	30.6	...	134.7
All counties	4097.0	204.3	47.0	6.3	23.8	977.6	881.5	93.1	1863.4

[1] Includes land leased to forest industry.

[2] Indian land will be classed as corporate or individual as defined by the Bureau of Indian Affairs.

Table 3—*Area of timberland by county and forest type group, Central Mississippi, 1987*

County	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak-pine	Oak-hickory	Oak-gum-cypress
		Planted	Natural	Planted	Natural			
	Thousand acres							
Attala	355.8	...	...	23.3	64.2	81.7	140.0	46.7
Clarke	356.4	...	...	56.3	68.8	68.8	131.3	31.3
Jasper	353.4	...	...	17.7	70.7	76.6	135.5	53.0
Kemper	361.3	...	...	83.4	100.0	83.4	38.9	55.6
Lauderdale	347.3	...	...	28.9	115.8	52.1	104.2	46.3
Leake	257.2	...	...	36.0	51.4	46.3	92.6	30.9
Neshoba	236.3	...	...	4.9	39.4	64.0	73.8	54.1
Newton	251.1	5.5	...	16.4	54.6	65.5	49.1	60.0
Noxubee	212.7	...	...	23.0	63.2	40.2	34.5	51.7
Rankin	306.7	...	...	6.1	61.3	85.9	98.1	55.2
Scott	258.4	...	...	...	80.0	43.1	110.7	24.6
Simpson	240.2	...	...	13.3	66.7	60.1	53.4	46.7
Smith	284.8	...	5.5	11.0	87.6	65.7	87.6	27.4
Winston	275.5	...	6.1	18.4	42.8	85.7	91.8	30.6
All counties	4097.0	5.5	11.6	338.7	966.6	918.9	1241.6	614.1

Table 4—*Area of timberland by county and stand-size class, Central Mississippi, 1987*

County	All classes	Stand-size class			Nonstocked[1] areas
		Sawtimber	Poletimber	Sapling-seedling	
	Thousand acres				
Attala	355.8	110.8	105.0	134.2	5.8
Clarke	356.4	112.6	106.3	131.3	6.3
Jasper	353.4	100.1	76.6	170.8	5.9
Kemper	361.3	139.0	94.5	127.8	...
Lauderdale	347.3	219.9	40.5	86.8	...
Leake	257.2	97.7	51.4	102.9	5.1
Neshoba	236.3	118.1	44.3	73.8	...
Newton	251.1	125.6	43.7	76.4	5.5
Noxubee	212.7	132.2	28.7	51.7	...
Rankin	306.7	208.5	55.2	42.9	...
Scott	258.4	153.8	67.7	36.9	...
Simpson	240.2	86.8	80.1	73.4	...
Smith	284.8	164.3	38.3	76.7	5.5
Winston	275.5	122.4	85.7	67.3	...
All counties	4097.0	1891.9	918.0	1253.1	34.1

[1] Timberland less than 16.7 percent stocked.

Table 5—*Area of timberland by county and site class, Central Mississippi, 1987*

County	All classes	Site class (cubic feet/acre/year)				
		>165	120-165	85-120	50-85	<50
	Thousand acres					
Attala	355.8	23.3	93.3	175.0	64.2	...
Clarke	356.4	37.5	68.8	137.6	100.0	12.5
Jasper	353.4	53.0	111.9	111.9	76.6	...
Kemper	361.3	50.0	66.7	150.1	94.5	...
Lauderdale	347.3	52.1	138.9	92.6	57.9	5.8
Leake	257.2	56.6	77.2	102.9	20.6	...
Neshoba	236.3	34.5	73.8	123.1	4.9	...
Newton	251.1	27.3	92.8	103.7	21.8	5.5
Noxubee	212.7	34.5	63.2	69.0	46.0	...
Rankin	306.7	30.7	85.9	177.9	12.3	...
Scott	258.4	49.2	123.0	49.2	30.8	6.2
Simpson	240.2	20.0	46.7	153.5	20.0	...
Smith	284.8	5.5	76.7	175.3	27.4	...
Winston	275.5	30.6	61.2	128.5	55.1	...
All counties	4097.0	504.8	1180.2	1750.2	632.0	29.9

Table 6—*Area of timberland by county and stocking classes of growing-stock trees, Central Mississippi, 1987*

County	All classes	Stocking class (percent)				
		>130	100-130	60-100	16.7-60	<16.7
	Thousand acres					
Attala	355.8	5.8	105.0	221.6	17.5	5.8
Clarke	356.4	12.5	50.0	200.1	87.5	6.3
Jasper	353.4	29.5	70.7	176.7	70.7	5.9
Kemper	361.3	...	100.0	216.8	44.5	...
Lauderdale	347.3	11.6	127.3	191.0	17.4	...
Leake	257.2	20.6	41.2	133.8	56.6	5.1
Neshoba	236.3	4.9	39.4	157.5	34.5	...
Newton	251.1	10.9	38.2	169.2	27.3	5.5
Noxubee	212.7	...	51.7	138.0	23.0	...
Rankin	306.7	18.4	98.1	147.2	42.9	...
Scott	258.4	24.6	30.8	147.6	55.4	...
Simpson	240.2	...	66.7	113.4	60.1	...
Smith	284.8	16.4	49.3	180.8	32.9	5.5
Winston	275.5	12.2	61.2	165.3	36.7	...
All counties	4097.0	167.5	929.7	2359.0	606.8	34.1

Table 7—*Area of timberland by forest type and ownership class, Central Mississippi, 1987*

Forest type[1]	All ownerships	National forest	Other public	Forest industry	Forest industry-leased	Other private
	Thousand acres					
Longleaf-slash pine	17.1	...	...	11.6	...	5.5
Loblolly-shortleaf pine	1305.3	81.1	36.2	358.0	32.5	797.4
Softwood total	1322.4	81.1	36.2	369.6	32.5	802.9
Oak-pine	918.9	51.9	17.6	210.5	11.9	626.9
Oak-hickory	1241.6	53.7	5.8	177.7	20.6	983.9
Oak-gum-cypress	614.1	17.5	17.5	132.3	22.6	424.3
Hardwood total	2774.7	123.1	40.9	520.5	55.1	2035.1
All types	4097.0	204.3	77.1	890.1	87.6	2838.0

[1] Forest type is based on species plurality of all live trees. Mixed types that in combination contain a majority of hardwood stocking are hardwood types.

Table 8—*Area of timberland by ownership and stocking classes of growing-stock trees, Central Mississippi, 1987*

Ownership class	All classes	Stocking class (percent)				
		>130	100-130	60-100	16.7-60	<16.7
	Thousand acres					
National forest	204.3	28.9	28.0	135.0	12.3	...
Other public	77.1	6.1	30.1	35.1	5.8	...
Forest industry	890.1	35.7	235.0	485.1	123.3	10.9
Forest industry-leased	87.6	5.1	22.2	55.1	5.1	...
Other private	2838.0	91.6	614.3	1648.7	460.3	23.1
All ownerships	4097.0	167.5	929.7	2359.0	606.8	34.1

Table 9—*Area of timberland by forest type and stand-size class, Central Mississippi, 1987*

Forest type[1]	All classes	Stand-size class			Nonstocked[2] areas
		Sawtimber	Poletimber	Sapling-seedling	
	Thousand acres				
Longleaf-slash pine	17.1	17.1	...	...	...
Loblolly-shortleaf pine	1305.3	747.6	245.0	312.7	...
Softwood total	1322.4	764.6	245.0	312.7	...
Oak-pine	918.9	437.2	222.9	258.9	...
Oak-hickory	1241.6	343.7	301.4	573.7	22.7
Oak-gum-cypress	614.1	346.3	148.7	107.7	11.3
Hardwood total	2774.7	1127.3	673.0	940.4	34.1
All types	4097.0	1891.9	918.0	1253.1	34.1

[1] Forest type is based on species plurality of all live trees. Mixed types that in combination contain a majority of hardwood stocking are hardwood types.

[2] Timberland less than 16.7 percent stocked.

Table 10—*Number of live trees on timberland by species and diameter class, Central Mississippi, 1987*

Species	All classes	Diameter class (inches at breast height) 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												
Longleaf-slash pines	4996	500	527	460	1023	702	918	471	276	98	20	...	...
Shortleaf-loblolly pine	545963	216342	123369	73690	49544	31198	21523	14578	8432	3827	1836	1571	53
Other yellow pines	7333	2190	540	1228	889	555	464	511	331	199	221	197	9
Cypress	302	...	...	110	...	35	29	40	46	13	10	18	...
Other softwoods	18377	12980	2449	1697	453	582	110	41	66	...	...	...	...
Total softwoods	576971	232013	126885	77185	51908	33072	23043	15642	9152	4136	2087	1787	62
Select white oaks	84464	46317	16080	7398	5096	3046	2213	1578	1174	593	398	527	44
Select red oaks	27549	11137	6452	3062	2135	1858	975	583	554	284	208	261	40
Other white oaks	72186	38270	12443	8010	5457	3314	1951	1340	738	315	182	149	15
Other red oaks	303543	202983	38198	22056	12484	9437	6658	4615	2615	1761	1127	1351	256
Hickory	142288	108886	15125	7381	3539	2711	1951	1228	694	408	227	138	...
Hard maple	577	...	562	...	...	...	...	...	15	...	...	...	...
Soft maple	201418	152798	31231	11460	3213	1588	811	202	46	37	18	15	...
Beech	5359	3289	531	424	81	74	149	166	185	182	77	174	28
Sweetgum	502201	328950	98525	39508	18861	8768	3751	2228	885	368	232	112	13
Tupelo-blackgum	159576	125271	17594	7155	4174	2706	1196	700	437	182	100	60	...
Ash	51492	37666	9696	1948	935	594	325	201	49	54	11	14	...
Cottonwood-aspen	214	...	...	...	172	...	32	...	...	...	10	...	...
Basswood	583	510	...	...	51	...	...	22	...	...	...	...	...
Yellow-poplar	53862	41383	4271	3246	1566	1082	691	642	358	216	201	180	27
Black walnut	61	...	...	...	...	...	49	...	...	12	...	...	...
Other hardwoods	405060	318731	57224	15741	7088	3114	1286	918	431	308	89	117	12
Total hardwoods	2010435	1416193	307932	127389	64853	38293	22039	14424	8182	4720	2879	3097	436
Noncommercial	221236	183168	20347	12404	3398	1250	348	120	131	60	10	...	...
All species	2808642	1831373	455164	216978	120159	72615	45431	30186	17464	8915	4976	4884	498

Table 11—*Number of growing-stock trees on timberland by species and diameter class, Central Mississippi, 1987*

Species	All classes	Diameter class (inches at breast height) 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												
Longleaf-slash pines	4407	...	527	460	1023	665	890	448	276	98	20	...	...
Shortleaf-loblolly pine	456327	163971	101823	64406	46652	29584	20696	14069	8199	3660	1748	1474	45
Other yellow pines	5994	1114	540	1228	761	515	464	468	293	199	212	191	9
Cypress	302	...	...	110	...	35	29	40	46	13	10	18	...
Other softwoods	11168	6085	2449	1620	396	461	84	41	32	...	...	...	...
Total softwoods	478198	171171	105339	67825	48830	31259	22163	15067	8847	3968	1991	1684	54
Select white oaks	51668	20386	11931	6408	4630	2802	2009	1285	1021	542	317	326	11
Select red oaks	16744	3678	4318	2586	1929	1529	924	566	523	284	198	189	20
Other white oaks	28738	6296	5543	5972	4442	2806	1504	1199	536	204	162	70	3
Other red oaks	145407	70391	21592	18777	10921	8506	5619	4044	2248	1433	912	877	87
Hickory	50830	29166	6441	5823	3184	2291	1734	1010	619	308	186	69	...
Hard maple	577	...	562	...	...	...	...	...	15	...	...	...	...
Soft maple	48388	29452	9720	5779	1874	978	464	79	18	14	9	...	...
Beech	2534	1659	...	289	81	42	100	111	66	109	9	61	7
Sweetgum	234156	125384	47716	30664	16364	7792	3089	1974	669	300	162	38	4
Tupelo-blackgum	35831	17550	7254	3752	3173	2103	858	579	364	129	60	8	...
Ash	16263	9406	3725	1441	759	473	244	143	33	40	...	...	...
Cottonwood-aspen	214	...	...	...	172	...	32	...	...	...	10	...	...
Basswood	583	510	...	...	51	...	...	22	...	...	...	...	...
Yellow-poplar	36780	27247	2728	2557	1379	911	628	517	304	216	128	149	15
Black walnut	12	...	...	...	...	...	...	...	...	12	...	...	...
Other hardwoods	87663	48536	22501	8710	3812	2315	678	547	251	204	68	34	8
Total hardwoods	756387	389660	144030	92758	52771	32549	17885	12077	6667	3796	2221	1820	155
All species	1234585	560831	249369	160582	101601	63808	40048	27144	15514	7765	4211	3504	209

Table 12—*Volume of growing stock on timberland by species and diameter class, Central Mississippi, 1987*

Species	All classes	Diameter class (inches at breast height) 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										
Longleaf-slash pines	70.9	1.2	8.4	9.6	19.8	14.2	11.0	5.4	1.2	...	...
Shortleaf-loblolly pine	2583.6	160.6	297.3	402.4	439.0	439.4	347.5	211.5	125.8	151.4	8.8
Other yellow pines	106.3	3.8	4.6	5.5	9.7	17.1	12.6	12.4	17.0	22.0	1.6
Cypress	8.6	0.3	...	0.8	0.6	1.6	2.2	0.7	0.6	1.9	...
Other softwoods	13.2	3.8	2.2	4.2	1.3	0.8	0.8	...	...	...	...
Total softwoods	2782.6	169.7	312.4	422.6	470.4	473.1	374.1	230.0	144.6	175.3	10.4
Select white oaks	244.7	16.9	27.6	30.7	35.1	32.7	34.7	23.4	18.5	23.4	1.6
Select red oaks	132.2	7.1	11.8	16.8	16.7	15.6	18.0	14.7	11.0	17.3	3.1
Other white oaks	152.0	14.3	24.1	28.1	22.4	26.4	15.5	8.1	7.2	5.5	0.5
Other red oaks	679.4	48.3	63.3	93.1	98.1	99.4	78.8	65.7	50.7	68.9	13.0
Hickory	168.7	13.1	17.7	26.3	31.0	26.8	22.3	14.8	11.2	5.6	...
Hard maple	0.4	...	...	...	...	...	0.4	...	...	...	...
Soft maple	46.5	14.7	10.7	10.7	7.3	1.6	0.4	0.4	0.7	...	...
Beech	19.6	1.0	0.4	0.4	1.8	2.4	2.1	4.6	0.4	4.9	1.7
Sweetgum	415.0	67.2	95.5	84.9	58.9	54.1	25.1	15.8	10.2	2.9	0.4
Tupelo-blackgum	97.1	9.1	16.1	23.0	14.5	14.1	11.3	5.4	3.4	0.3	...
Ash	24.0	3.7	4.3	5.7	4.1	3.5	0.9	1.8	...	...	...
Cottonwood-aspen	2.7	...	1.6	...	0.7	...	...	...	0.4	...	...
Basswood	0.9	...	0.4	...	...	0.5	...	...	...	...	...
Yellow-poplar	100.8	7.5	9.4	11.0	12.5	15.3	11.3	10.7	7.9	13.3	2.0
Black walnut	0.5	...	...	...	...	...	...	0.5	...	...	...
Other hardwoods	117.5	19.6	21.5	25.2	11.8	13.8	8.6	8.7	4.0	3.5	0.9
Total hardwoods	2202.0	222.3	304.2	355.8	315.0	306.3	229.5	174.6	125.6	145.6	23.2
All species	4984.6	392.0	616.7	778.4	785.4	779.3	603.6	404.6	270.2	320.9	33.6

Table 13—*Volume of growing stock in the saw-log portion of sawtimber[1] trees on timberland by species and diameter class, Central Mississippi, 1987*

Species	All classes	Diameter class (inches at breast height) 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								
Longleaf-slash pines	55.1	7.7	17.8	13.0	10.2	5.2	1.2	...	...
Shortleaf-loblolly pine	1906.8	326.9	393.8	404.8	321.5	196.5	116.7	138.8	7.7
Other yellow pines	89.3	4.3	8.4	15.7	11.4	11.4	16.0	20.7	1.4
Cypress	7.6	0.7	0.6	1.4	2.1	0.6	0.5	1.7	...
Other softwoods	5.7	3.2	1.0	0.8	0.7	...	...	...	...
Total softwoods	2064.5	342.9	421.6	435.7	346.0	213.7	134.4	161.1	9.2
Select white oaks	140.1	...	26.3	27.1	29.2	19.8	15.6	20.4	1.6
Select red oaks	80.6	...	11.3	13.2	15.8	12.4	10.1	15.3	2.5
Other white oaks	72.4	...	17.9	22.9	13.3	6.8	6.2	4.8	0.4
Other red oaks	393.7	...	70.8	83.0	68.5	56.5	42.9	60.1	11.7
Hickory	90.6	...	22.9	22.2	18.3	12.7	9.6	4.9	...
Hard maple	0.4	...	...	...	0.4	...	...	...	...
Soft maple	7.7	...	5.3	1.2	0.3	0.3	0.5	...	...
Beech	14.2	...	1.3	1.9	1.8	3.7	0.3	4.4	0.8
Sweetgum	133.3	...	41.2	44.2	21.7	14.1	9.2	2.5	0.4
Tupelo-blackgum	41.0	...	10.7	12.2	10.3	4.6	2.9	0.3	...
Ash	7.6	...	2.8	2.6	0.7	1.5	...	...	...
Cottonwood-aspen	0.6	...	0.3	...	...	...	0.3	...	...
Basswood	0.5	...	...	0.5	...	...	...	...	...
Yellow-poplar	63.1	...	9.2	13.0	10.1	9.4	7.2	12.2	1.9
Black walnut	0.4	...	...	...	...	0.4	...	...	...
Other hardwoods	41.0	...	8.4	11.1	7.2	7.3	3.3	3.0	0.8
Total hardwoods	1087.1	...	228.5	255.3	197.6	149.4	108.2	127.9	20.2
All species	3151.6	342.9	650.1	691.0	543.6	363.1	242.6	289.0	29.4

[1] That part of the bole of sawtimber trees between a 1-foot stump and saw-log top, including the portion of the forks large enough to contain a saw log.

Table 14—*Volume of sawtimber on timberland by species and diameter class, Central Mississippi, 1987*

Species	All classes	Diameter class (inches at breast height) 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 board feet								
Longleaf-slash pines	338.5	43.6	107.5	81.5	65.1	33.6	7.1	...	...
Shortleaf-loblolly pine	11963.1	1839.7	2384.4	2558.2	2086.1	1303.1	783.2	952.0	56.3
Other yellow pines	579.0	22.3	50.3	101.1	74.8	74.6	107.9	138.0	10.0
Cypress	43.5	3.3	3.3	9.0	11.8	3.7	3.1	9.3	...
Other softwoods	29.5	16.0	5.5	4.1	3.9	...	...	...	...
Total softwoods	12953.5	1925.0	2551.0	2753.9	2241.6	1414.9	901.3	1099.4	66.3
Select white oaks	857.5	...	143.2	159.1	178.4	127.5	101.8	136.0	11.6
Select red oaks	492.2	...	59.9	77.0	93.5	78.0	63.4	103.0	17.6
Other white oaks	424.8	...	97.5	131.1	78.9	42.8	39.0	33.1	2.4
Other red oaks	2381.2	...	386.9	481.9	416.0	352.4	273.1	392.6	78.4
Hickory	557.5	...	129.5	134.3	115.1	81.6	63.0	34.0	...
Hard maple	2.6	...	...	...	2.6	...	...	...	...
Soft maple	42.7	...	29.4	6.6	1.9	1.5	3.4	...	...
Beech	92.5	...	7.0	11.2	10.9	24.3	2.2	30.1	7.0
Sweetgum	785.5	...	230.8	257.6	133.4	87.3	57.5	16.6	2.3
Tupelo-blackgum	232.8	...	57.7	69.3	59.9	27.4	17.0	1.5	...
Ash	44.2	...	14.8	15.1	4.6	9.8	...	...	...
Cottonwood-aspen	3.1	...	1.5	...	...	...	1.7	...	...
Basswood	2.7	...	...	2.7	...	...	...	...	...
Yellow-poplar	384.1	...	52.7	78.9	61.3	57.2	45.4	78.1	10.5
Black walnut	2.5	...	...	...	...	2.5	...	...	...
Other hardwoods	242.2	...	45.2	66.3	43.3	44.3	20.9	19.0	3.2
Total hardwoods	6548.2	...	1256.0	1491.1	1199.6	936.4	688.2	843.9	133.0
All species	19501.7	1925.0	3807.0	4245.0	3441.3	2351.4	1589.5	1943.3	199.3

Table 15—*Volume of growing stock and sawtimber on timberland by county and species group, Central Mississippi, 1987*

County	Growing stock						Sawtimber					
		Softwood			Hardwood			Softwood			Hardwood	
		Pine						Pine				
	All species	Planted	Natural	Other	Soft[1]	Hard[2]	All species	Planted	Natural	Other	Soft[1]	Hard[2]
	Million cubic feet						*Million board feet*					
Attala	373.7	21.4	148.3	2.4	81.7	119.8	1254.3	61.9	655.3	2.5	182.9	351.8
Clarke	327.7	19.1	150.3	0.1	54.6	103.6	1075.8	7.6	615.7	...	144.2	308.3
Jasper	308.3	21.4	154.4	0.7	42.4	89.4	1108.7	28.6	757.4	2.2	75.3	245.2
Kemper	390.1	46.0	206.9	1.0	71.1	65.2	1553.1	156.5	1011.7	3.0	153.6	228.2
Lauderdale	589.7	6.7	316.1	0.4	96.3	170.3	2416.7	21.5	1567.8	1.7	271.3	554.5
Leake	288.1	11.5	129.9	3.2	40.4	103.2	1137.8	33.3	611.9	18.0	78.8	395.8
Neshoba	275.0	0.7	123.0	0.7	47.7	102.9	1082.0	3.6	623.4	1.7	110.5	342.7
Newton	283.3	30.7	114.6	...	42.3	95.6	1050.1	118.8	502.2	...	84.8	344.3
Noxubee	307.7	36.1	137.5	11.1	21.2	101.8	1320.2	167.0	761.5	35.1	59.5	297.0
Rankin	464.0	1.6	227.6	1.0	78.0	155.8	1884.4	3.4	1104.5	3.4	168.5	604.6
Scott	369.6	...	220.2	0.5	42.2	106.8	1472.1	...	1035.0	2.4	79.7	355.0
Simpson	221.6	4.1	129.4	...	35.6	52.5	776.7	0.9	511.6	...	63.2	201.0
Smith	404.9	11.9	266.9	0.3	46.6	79.1	1882.1	68.9	1420.8	1.3	123.9	267.2
Winston	381.0	31.5	193.2	0.4	28.1	127.7	1487.7	92.0	937.7	1.7	59.4	397.0
All counties	4984.6	242.6	2518.2	21.8	728.1	1473.9	19501.7	763.9	12116.6	73.0	1655.7	4892.6

[1] Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

[2] Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 16—*Volume of timber on timberland by class of timber and species group, Central Mississippi, 1987*

Class of timber	All species	Softwood			Hardwood	
		Pine				
		Planted	Natural	Other	Soft[1]	Hard[2]
	Million cubic feet					
Sawtimber trees:						
Saw-log portion	3151.6	127.0	1924.2	13.3	280.3	806.8
Upper-stem portion	468.6	16.2	217.5	2.2	63.1	169.5
Total	3620.2	143.2	2141.7	15.5	343.5	976.2
Poletimber trees	1364.4	99.4	376.5	6.2	384.6	497.7
All growing-stock trees	4984.6	242.6	2518.2	21.8	728.1	1473.9
Rough trees:						
Sawtimber size	267.7	4.5	61.1	2.4	51.0	148.7
Poletimber size	218.7	3.6	27.8	0.5	62.8	124.0
Total	486.4	8.1	88.9	2.9	113.8	272.7
Rotten trees:						
Sawtimber size	82.6	0.3	2.7	...	21.3	58.2
Poletimber size	7.7	...	...	...	3.3	4.4
Total	90.3	0.3	2.7	...	24.6	62.7
Salvable dead trees:						
Sawtimber size	40.7	3.1	29.1	0.5	3.1	4.8
Poletimber size	25.1	1.5	19.0	0.2	0.7	3.7
Total	65.8	4.6	48.2	0.8	3.8	8.4
All classes	5627.1	255.6	2658.0	25.4	870.4	1817.7

[1] Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

[2] Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 17—*Volume of live trees and growing stock on timberland by ownership class and species group, Central Mississippi, 1987*

Ownership class	Live trees						Growing stock					
		Softwood			Hardwood			Softwood			Hardwood	
		Pine						Pine				
	All species	Planted	Natural	Other	Soft[1]	Hard[2]	All species	Planted	Natural	Other	Soft[1]	Hard[2]
	Million cubic feet											
National forest	445.9	16.8	265.1	0.5	40.9	122.7	408.3	16.8	257.2	0.5	35.3	98.6
Other public	204.2	16.2	106.9	...	27.9	53.2	191.3	15.5	106.2	...	22.7	46.8
Forest industry	971.5	125.9	433.8	7.1	148.1	256.6	877.5	121.0	420.6	7.1	123.9	205.0
Forest industry-leased	134.0	5.0	48.5	0.7	16.7	63.2	123.7	4.8	46.8	0.7	15.2	56.2
Other private	3805.8	87.2	1755.6	16.4	633.0	1313.6	3383.8	84.5	1687.4	13.5	531.1	1067.3
All ownerships	5561.4	251.0	2609.9	24.7	866.6	1809.3	4984.6	242.6	2518.2	21.8	728.1	1473.9

[1] Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

[2] Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 18—*Average net annual growth of growing stock and sawtimber on timberland by county and species group, Central Mississippi, 1987*

County	Growing stock						Sawtimber					
		Softwood			Hardwood			Softwood			Hardwood	
		Pine						Pine				
	All species	Planted	Natural	Other	Soft[1]	Hard[2]	All species	Planted	Natural	Other	Soft[1]	Hard[2]
	Million cubic feet						*Million board feet*					
Attala	22.2	2.3	10.0	0.2	3.1	6.5	90.4	8.2	49.1	0.5	9.8	22.7
Clarke	15.4	1.9	8.3	...	1.6	3.6	56.7	0.5	38.7	...	3.4	14.2
Jasper	20.0	4.5	8.3	...	1.8	5.3	83.7	14.6	48.5	...	4.5	16.1
Kemper	19.2	2.1	11.0	0.1	3.2	2.9	87.3	2.8	63.8	0.2	8.5	12.1
Lauderdale	26.2	0.7	14.4	...	3.6	7.5	135.1	3.8	91.3	...	12.0	28.0
Leake	17.5	0.5	9.7	0.1	1.5	5.7	83.3	0.1	52.4	0.3	3.5	27.0
Neshoba	11.6	...	6.9	...	0.7	4.0	67.4	...	47.5	...	0.3	19.5
Newton	15.3	0.7	7.5	...	2.2	4.9	72.3	4.0	44.6	...	4.2	19.5
Noxubee	13.6	1.0	6.3	0.5	1.0	4.8	67.8	7.2	38.0	1.8	3.6	17.3
Rankin	17.9	0.2	9.4	...	2.2	6.1	99.7	1.4	62.4	-0.1	5.2	30.8
Scott	17.9	...	9.7	...	2.8	5.4	76.7	...	52.6	0.1	5.9	18.2
Simpson	14.2	0.9	9.9	...	1.3	2.1	61.2	1.4	47.7	0.1	2.4	9.6
Smith	20.6	1.6	13.4	...	1.7	3.9	114.9	9.1	84.4	0.2	6.5	14.7
Winston	18.7	1.5	9.9	-0.1	1.2	6.2	90.9	10.2	57.6	-0.1	1.7	21.6
All counties	250.2	17.9	134.7	0.8	28.0	68.8	1187.5	63.2	778.6	3.1	71.5	271.2

[1] Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

[2] Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 19—*Average net annual removals of growing stock and sawtimber on timberland by county and species group, Central Mississippi, 1987*

County	Growing stock						Sawtimber					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Pine		Other	Soft[1]	Hard[2]		Pine		Other	Soft[1]	Hard[2]
		Planted	Natural					Planted	Natural			
	Million cubic feet						*Million board feet*					
Attala	22.6	2.2	15.0	0.3	2.1	3.0	85.5	6.9	64.1	1.1	3.4	10.0
Clarke	19.4	0.6	12.0	...	3.3	3.5	62.8	0.6	41.0	...	9.4	11.8
Jasper	23.2	2.5	15.4	...	1.4	3.9	99.1	7.7	73.6	...	3.1	14.7
Kemper	20.2	0.1	12.1	...	3.8	4.3	71.8	...	54.5	...	8.3	9.0
Lauderdale	17.0	0.2	12.5	...	1.4	2.9	60.1	0.7	48.5	...	2.1	8.8
Leake	18.1	...	13.1	...	0.8	4.3	71.2	...	54.3	...	1.4	15.5
Neshoba	16.3	...	11.9	...	2.1	2.3	81.1	...	65.2	...	7.8	8.2
Newton	14.5	0.4	8.2	...	2.6	3.3	57.8	0.8	40.4	...	6.7	9.8
Noxubee	6.0	0.5	2.9	0.1	0.6	1.9	28.3	2.4	14.9	0.7	2.6	7.6
Rankin	12.9	0.2	10.6	...	0.2	1.9	45.7	0.6	37.7	...	0.5	6.9
Scott	16.4	0.5	12.4	...	0.2	3.4	78.2	0.7	65.8	...	0.4	11.3
Simpson	18.5	...	14.1	0.1	1.5	2.9	72.8	...	58.3	0.3	2.8	11.4
Smith	21.7	0.7	14.0	...	2.5	4.5	85.0	3.1	60.3	...	8.0	13.5
Winston	15.2	4.1	8.6	...	0.1	2.4	61.9	13.7	38.6	...	...	9.6
All counties	242.2	12.0	162.8	0.5	22.5	44.4	961.1	37.3	717.1	2.1	56.5	148.1

[1] Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

[2] Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 20—*Average net annual growth and average annual removals of growing stock on timberland by species, Central Mississippi, 1987*

Species	Growth	Removals
	Million cubic feet	
Yellow pines	152.6	174.8
Other softwoods	0.8	0.5
Total softwoods	153.4	175.3
Select white-red oaks	18.0	10.2
Other white-red oaks	40.2	25.9
Hickory	5.7	5.4
Hard maple	...	...
Sweetgum	17.1	12.9
Ash-walnut-black cherry	1.4	1.2
Yellow-poplar	5.4	3.7
Other hardwoods	8.9	7.5
Total hardwoods	96.8	66.9
All species	250.2	242.2

Table 21—*Average net annual growth and average annual removals of sawtimber on timberland by species, Central Mississippi, 1987*

Species	Growth	Removals
	Million board feet	
Yellow pines	841.8	754.5
Other softwoods	3.1	2.1
Total softwoods	844.9	756.6
Select white-red oaks	74.9	36.0
Other white-red oaks	166.9	84.9
Hickory	20.9	22.3
Hard maple	0.1	...
Sweetgum	36.4	25.2
Ash-walnut-black cherry	1.8	1.8
Yellow-poplar	22.5	16.0
Other hardwoods	19.1	18.4
Total hardwoods	342.6	204.6
All species	1187.5	961.1

Table 22—*Average annual mortality of growing stock and sawtimber on timberland by species, Central Mississippi, 1987*

Species	Growing stock	Sawtimber
	Million cubic feet	*Million board feet*
Yellow pines	25.6	71.6
Other softwoods	0.2	0.3
Total softwoods	25.8	72.0
Select white-red oaks	1.9	3.1
Other white-red oaks	5.2	14.0
Hickory	1.4	5.7
Sweetgum	3.2	6.6
Ash-walnut-black cherry	0.6	1.3
Yellow-poplar	0.4	2.0
Other hardwoods	2.7	7.8
Total hardwoods	15.3	40.3
All species	41.1	112.3

Table 23—*Average net annual growth and average annual removals of growing stock on timberland by ownership class and species group, Central Mississippi, 1987*

Ownership class	Growth						Removals					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Pine		Other	Soft[1]	Hard[2]		Pine		Other	Soft[1]	Hard[2]
		Planted	Natural					Planted	Natural			
	Million cubic feet											
National forest	14.1	0.1	9.8	...	1.2	3.0	17.4	...	16.6	...	0.3	0.5
Other public	4.4	...	2.6	...	0.2	1.6	1.0	...	0.8	...	...	0.2
Forest industry	48.4	9.0	23.8	0.2	4.5	10.8	61.0	1.8	40.3	0.1	6.2	12.7
Forest industry-leased	5.4	0.5	2.0	...	0.5	2.4	7.0	...	5.0	...	0.1	1.8
Other private	178.0	8.3	96.5	0.6	21.6	50.9	155.7	10.2	100.0	0.5	15.9	29.1
All ownerships	250.2	17.9	134.7	0.8	28.0	68.8	242.2	12.0	162.8	0.5	22.5	44.4

[1] Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood,aspen, and willow.

[2] Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 24—*Average net annual growth and average annual removals of sawtimber on timberland by ownership class and species, Central Mississippi, 1987*

Ownership class	Growth						Removals					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Pine		Other	Soft[1]	Hard[2]		Pine		Other	Soft[1]	Hard[2]
		Planted	Natural					Planted	Natural			
	Million board feet											
National forest	81.1	0.4	66.6	0.1	3.8	10.1	87.5	...	86.8	...	0.4	0.3
Other public	29.8	...	22.5	...	...	7.3	4.1	...	3.9	...	...	0.2
Forest industry	204.9	20.0	132.6	0.9	9.4	41.8	249.8	4.5	184.3	0.2	17.4	43.3
Forest industry-leased	30.2	0.1	15.9	...	1.4	12.8	28.4	...	22.9	...	...	5.5
Other private	841.5	42.3	541.0	2.1	56.9	199.1	591.3	32.8	419.1	1.9	38.6	98.8
All ownerships	1187.5	63.2	778.6	3.1	71.5	271.2	961.1	37.3	717.1	2.1	56.5	148.1

[1] Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

[2] Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 25—*Volume of sawtimber on timberland by species and tree grade, Central Mississippi, 1987*

Species	All grades	Grade 1	Grade 2	Grade 3	Grade 4
			Million board feet		
Yellow pines	12880.5	1842.5	2313.3	8724.8	...
Cypress	43.5	...	16.9	26.6	...
Redcedar	29.5	29.5	...	...	...
Total softwoods	12953.5	1872.0	2330.2	8751.4	...
Select white-red oaks	1349.7	125.3	312.8	716.7	194.9
Other white-red oaks	2806.1	89.6	421.2	1593.3	702.0
Hickory	557.5	29.6	84.5	349.8	93.5
Hard maple	2.6	...	...	2.6	...
Sweetgum	785.5	51.2	93.0	529.4	111.9
Tupelo and blackgum	232.8	2.6	54.6	164.5	11.1
Ash-walnut-black cherry	61.1	4.2	8.8	44.0	4.1
Yellow-poplar	384.1	78.7	78.1	178.9	48.3
Other hardwoods	368.9	21.9	29.0	233.4	84.6
Total hardwoods	6548.2	403.1	1082.0	3812.6	1250.5
All species	19501.7	2275.0	3412.2	12564.0	1250.5

Supplemental Tables 26–36

Table 26—*Area of timberland by stand age, forest type group and type of regeneration, Central Mississippi, 1987*

Stand age class	Pine		Oak-pine		Other hardwood types	
	Artificial	Natural	Artificial	Natural	Artificial	Natural
			Thousand acres			
1-10	193.2	62.3	62.8	44.3	50.5	150.5
11-20	58.1	98.7	35.6	70.8	6.3	147.9
21-30	16.9	4.9	6.1	4.9	...	4.9
31-40	11.0	49.6	...	4.9	...	4.9
41-50	...	44.0	...	15.7	...	4.9
>50	...	4.9	...	...	...	...
Mixed	65.0	713.8	53.8	619.9	23.1	1462.8
Total	344.2	978.2	158.3	760.6	79.8	1775.9

Table 27—*Volume of softwood growing stock on timberland by forest type, Central Mississippi, 1987*

County	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak-pine	Oak-hickory	Oak-gum cypress
		Planted	Natural	Planted	Natural			
	Million cubic feet							
Attala	172.1	...	...	14.2	102.6	35.5	19.1	0.7
Clarke	169.5	...	...	15.7	93.6	33.1	21.0	6.2
Jasper	176.5	...	...	14.6	106.9	27.7	20.8	6.6
Kemper	253.8	...	...	44.0	148.9	54.4	1.0	5.4
Lauderdale	323.2	...	...	6.7	241.6	44.0	23.2	7.6
Leake	144.5	...	...	11.3	71.8	36.5	18.0	7.0
Neshoba	124.4	...	...	...	53.8	47.2	21.0	2.4
Newton	145.3	11.4	...	15.0	66.5	37.7	5.7	8.9
Noxubee	184.7	...	...	21.3	103.7	45.4	8.0	6.2
Rankin	230.2	...	...	1.6	121.2	80.5	20.0	6.8
Scott	220.6	...	...	...	155.1	46.6	15.4	3.6
Simpson	133.5	...	...	1.7	97.1	28.4	4.8	1.4
Smith	279.2	...	21.4	11.9	173.7	59.6	12.6	...
Winston	225.2	...	5.2	19.3	103.7	74.7	18.9	3.4
All counties	2782.6	11.4	26.6	177.3	1640.0	651.4	209.6	66.2

Table 28—*Volume of hardwood growing stock on timberland by forest type, Central Mississippi, 1987*

County	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak-pine	Oak-hickory	Oak-gum cypress
		Planted	Natural	Planted	Natural			
	Million cubic feet							
Attala	201.5	...	...	0.3	19.6	24.2	78.3	79.1
Clarke	158.2	...	...	...	11.7	17.6	88.4	40.4
Jasper	131.8	...	...	1.8	15.1	18.3	56.0	40.5
Kemper	136.3	...	...	2.6	26.2	39.5	16.3	51.7
Lauderdale	266.6	...	...	4.5	39.0	41.3	90.2	91.6
Leake	143.6	...	...	...	11.3	21.3	53.1	57.9
Neshoba	150.6	...	...	...	6.4	32.6	52.9	58.8
Newton	138.0	0.7	...	0.3	11.3	28.5	19.8	77.3
Noxubee	123.0	...	...	4.5	7.3	24.8	18.0	68.5
Rankin	233.8	...	...	...	17.3	57.3	75.3	83.9
Scott	148.9	...	...	...	20.0	23.1	59.8	45.9
Simpson	88.1	...	...	...	11.7	23.0	18.1	35.3
Smith	125.7	...	3.2	1.2	17.9	38.2	51.3	13.9
Winston	155.8	...	...	0.2	10.0	50.4	54.2	41.0
All counties	2202.0	0.7	3.2	15.5	224.8	440.1	731.8	785.8

Table 29—*Volume of softwood growing stock in the saw-log portion of sawtimber trees on timberland by timberland by forest type, Central Mississippi, 1987*

County	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak-pine	Oak-hickory	Oak-gum cypress
		Planted	Natural	Planted	Natural			
	Million cubic feet							
Attala	121.7	...	...	7.4	78.8	20.5	14.4	0.6
Clarke	99.9	...	...	0.3	62.3	18.6	13.2	5.6
Jasper	124.4	...	...	4.2	87.8	14.5	11.8	6.0
Kemper	188.6	...	...	25.7	112.8	44.6	0.6	4.9
Lauderdale	250.6	...	...	3.8	186.9	33.7	20.0	6.1
Leake	107.4	...	...	5.3	51.2	28.9	15.2	6.7
Neshoba	103.7	...	...	...	42.4	41.3	17.8	2.3
Newton	102.6	7.1	...	10.1	47.0	26.8	3.7	7.8
Noxubee	148.0	...	...	13.3	84.3	37.8	7.2	5.3
Rankin	175.4	...	...	0.6	95.7	58.4	15.6	5.2
Scott	162.4	...	...	...	113.3	36.0	10.0	3.1
Simpson	84.7	...	...	...	64.8	16.4	2.8	0.7
Smith	234.1	...	16.5	10.7	143.5	52.7	10.7	...
Winston	161.1	...	4.7	6.9	85.3	50.5	10.6	3.1
All counties	2064.5	7.1	21.2	88.3	1256.1	480.9	153.5	57.4

Table 30—*Volume of hardwood growing stock in the saw-log portion of sawtimber trees on timberland by forest type, Central Mississippi, 1987*

County	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak-pine	Oak-hickory	Oak-gum cypress
		Planted	Natural	Planted	Natural			
	Million cubic feet							
Attala	90.3	...	...	...	6.5	11.2	33.3	39.3
Clarke	75.5	...	...	...	3.1	5.8	40.3	26.3
Jasper	53.0	...	...	0.9	3.1	8.8	20.4	19.8
Kemper	64.2	...	...	0.5	8.1	18.8	9.6	27.2
Lauderdale	135.0	...	...	1.2	17.3	19.7	43.5	53.2
Leake	77.0	...	...	...	2.8	10.9	25.9	37.5
Neshoba	73.8	...	...	...	2.6	12.7	26.8	31.7
Newton	71.0	...	...	0.2	3.6	9.7	9.2	48.3
Noxubee	58.4	...	...	2.1	1.7	10.3	6.4	37.9
Rankin	131.5	...	...	...	10.7	32.8	41.7	46.4
Scott	71.7	...	...	...	5.6	6.3	31.2	28.7
Simpson	45.5	...	...	...	7.7	12.6	6.1	19.1
Smith	65.5	...	1.4	...	6.7	21.3	27.2	8.8
Winston	74.8	...	...	...	4.3	21.5	22.9	26.2
All counties	1087.1	...	1.4	4.9	83.9	202.4	344.3	450.3

Table 31—*Volume of timber on timberland by county, class of timber and species group, Central Mississippi, 1987*

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Attala	422.0	172.1	201.5	2.6	38.5	...	7.3
Clarke	373.6	169.5	158.2	10.3	33.3	...	2.3
Jasper	359.1	176.5	131.8	8.5	28.9	0.9	12.5
Kemper	427.6	253.8	136.3	8.4	24.1	...	5.0
Lauderdale	647.2	323.2	266.6	9.6	33.1	0.5	14.3
Leake	320.3	144.5	143.6	5.8	21.5	...	5.0
Neshoba	336.8	124.4	150.6	13.2	40.6	...	8.0
Newton	318.7	145.3	138.0	6.8	22.2	1.4	5.2
Noxubee	332.5	184.7	123.0	4.3	16.0	...	4.6
Rankin	499.9	230.2	233.8	6.0	26.4	...	3.4
Scott	410.0	220.6	148.9	9.5	25.4	...	5.6
Simpson	243.3	133.5	88.1	0.7	19.1	...	1.9
Smith	444.7	279.2	125.7	7.8	28.5	...	3.5
Winston	425.4	225.2	155.8	6.4	29.0	0.3	8.7
All counties	5561.4	2782.6	2202.0	99.9	386.6	3.1	87.3

Table 32–*Number of live trees on timberland by detailed species and diameter class, Central Mississippi, 1987*

Species	All classes	Diameter class (inches at breast height) 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												
Longleaf pine	3280	500	...	460	581	405	606	427	196	85	20	...	...
Slash pine	1716	...	527	...	442	297	312	45	80	13	...	...	...
Shortleaf pine	92727	28855	13845	14838	14219	9892	5963	2805	1679	481	79	70	...
Loblolly pine	453237	187487	109524	58852	35325	21306	15560	11773	6753	3346	1757	1501	53
Spruce pine	7333	2190	540	1228	889	555	464	511	331	199	221	197	9
Redcedar	18377	12980	2449	1697	453	582	110	41	66	...	...	...	...
Cypress	302	...	...	110	...	35	29	40	46	13	10	18	...
Total softwoods	576971	232013	126885	77185	51908	33072	23043	15642	9152	4136	2087	1787	62
Select white oaks	84464	46317	16080	7398	5096	3046	2213	1578	1174	593	398	527	44
Select red oaks	27549	11137	6452	3062	2135	1858	975	583	554	284	208	261	40
Other white oaks	72186	38270	12443	8010	5457	3314	1951	1340	738	315	182	149	15
Other red oaks	303543	202983	38198	22056	12484	9437	6658	4615	2615	1761	1127	1351	256
Sweet pecan	502	502	...	...	...	...	...	...	...	...	...	...	...
Water hickory	1158	1054	...	85	...	...	...	19	...	...	...	...	...
Other hickories	140628	107330	15125	7296	3539	2711	1951	1209	694	408	227	138	...
Persimmon	42688	36214	5024	981	273	196	...	...	...	...	...	...	...
Hard maple	577	...	562	...	...	...	...	...	15	...	...	...	...
Soft maple	198372	151167	30700	10973	3083	1437	726	182	46	25	18	15	...
Boxelder	3046	1631	531	487	130	151	85	20	...	12	...	...	...
Beech	5359	3289	531	424	81	74	149	166	185	182	77	174	28
Sweetgum	502201	328950	98525	39508	18861	8768	3751	2228	885	368	232	112	13
Blackgum	152974	124299	16023	5252	3549	2110	796	498	256	112	59	20	...
Other gums/tupelos	6601	972	1571	1903	624	597	400	201	181	71	41	40	...
White ash	7729	4389	2689	389	...	121	...	105	16	14	...	6	...
Other ashes	43763	33277	7007	1559	935	472	325	96	33	40	11	8	...
Sycamore	1766	974	...	212	115	159	61	102	66	25	19	33	...
Cottonwood	214	...	...	...	172	...	32	...	...	...	10	...	...
Basswood	583	510	...	...	51	...	...	22	...	...	...	...	...
Yellow-poplar	53862	41383	4271	3246	1566	1082	691	642	358	216	201	180	27
Magnolia	809	...	500	113	82	86	...	...	...	27	...	...	...
Sweetbay	21450	14358	3862	1141	641	501	413	345	114	50	12	14	...
Willow	10332	4559	4733	506	452	47	28	...	...	...	...	8	...
Black walnut	61	...	...	...	...	...	49	...	...	12	...	...	...
Black cherry	38186	29979	4266	2249	1038	482	83	21	35	25	...	8	...
American elm	9186	5754	1091	668	871	342	173	158	47	54	19	10	...
Other elms	83552	69846	7869	3291	1328	732	171	164	77	65	9	...	...
River birch	1886	1720	...	108	...	...	...	40	...	...	10	8	...
Hackberry	6964	4757	540	568	389	277	271	25	28	49	19	29	12
Other locusts	1116	1037	...	...	79	...	...	...	...	...	...	...	...
Sassafras	22388	18258	2848	968	238	41	...	20	16	...	...	...	...
Dogwood	141972	115113	22253	3871	736	...	...	...	...	...	...	...	...
Holly	11937	8467	2610	246	495	85	26	...	...	...	...	9	...
Other commercial	10827	7698	1627	818	353	167	58	44	49	13	...	...	...
Total hardwoods	2010435	1416193	307932	127389	64853	38293	22039	14424	8182	4720	2879	3097	436
Noncommercial	221236	183168	20347	12404	3398	1250	348	120	131	60	10	...	...
All species	2808642	1831373	455164	216978	120159	72615	45431	30186	17464	8915	4976	4884	498

Table 33—*Number of growing-stock trees on timberland by detailed species and diameter class, Central Mississippi, 1987*

Species	All classes	Diameter class (inches at breast height) 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										
Longleaf pine	2718	460	581	367	606	403	196	85	20	...	...
Slash pine	1162	...	442	297	284	45	80	13	...	...	...
Shortleaf pine	45816	11352	13656	9802	5932	2786	1665	481	79	62	...
Loblolly pine	144717	53054	32995	19782	14764	11283	6534	3178	1669	1412	45
Spruce pine	4340	1228	761	515	464	468	293	199	212	191	9
Redcedar	2634	1620	396	461	84	41	32	...	...	...	...
Cypress	302	110	...	35	29	40	46	13	10	18	...
Total softwoods	201688	67825	48830	31259	22163	15067	8847	3968	1991	1684	54
Select white oaks	19350	6408	4630	2802	2009	1285	1021	542	317	326	11
Select red oaks	8748	2586	1929	1529	924	566	523	284	198	189	20
Other white oaks	16898	5972	4442	2806	1504	1199	536	204	162	70	3
Other red oaks	53424	18777	10921	8506	5619	4044	2248	1433	912	877	87
Water hickory	85	85	...	...	...	...	...	...	...	...	...
Other hickories	15138	5738	3184	2291	1734	1010	619	308	186	69	...
Persimmon	1113	644	273	196	...	...	...	...	...	...	...
Hard maple	15	...	...	...	...	...	15	...	...	...	...
Soft maple	8791	5672	1743	866	409	59	18	14	9	...	...
Boxelder	425	107	130	112	56	20	...	...	...	...	...
Beech	875	289	81	42	100	111	66	109	9	61	7
Sweetgum	61056	30664	16364	7792	3089	1974	669	300	162	38	4
Blackgum	8274	2640	2682	1626	614	420	199	74	19	...	...
Other gums/tupelos	2753	1112	491	477	244	159	165	55	41	8	...
White ash	516	283	...	121	...	82	16	14	...	...	...
Other ashes	2616	1158	759	352	244	61	17	26	...	...	...
Sycamore	614	212	56	120	31	64	66	25	19	20	...
Cottonwood	214	...	172	...	32	...	...	...	10	...	...
Basswood	74	...	51	...	...	22	...	...	...	...	...
Yellow-poplar	6805	2557	1379	911	628	517	304	216	128	149	15
Magnolia	294	113	82	86	...	...	...	13	...	...	...
Sweetbay	1455	469	276	291	216	144	47	12	...	...	...
Willow	591	279	284	...	28	...	...	...	...	...	...
Black walnut	12	...	...	...	...	...	...	12	...	...	...
Black cherry	2100	1086	540	327	83	21	18	25	...	...	...
American elm	1710	420	730	264	85	115	30	41	19	5	...
Other elms	4456	2571	905	665	75	119	60	52	9	...	...
River birch	50	...	...	...	...	40	...	...	10	...	...
Hackberry	1331	568	260	242	159	25	14	36	10	9	8
Sassafras	1006	802	126	41	...	20	16	...	...	...	...
Dogwood	1375	1298	77	...	...	...	...	...	...	...	...
Holly	488	246	202	39	...	...	...	...	...	...	...
Other commercial	44	...	...	44	...	...	...	...	...	...	...
Total hardwoods	222697	92758	52771	32549	17885	12077	6667	3796	2221	1820	155
All species	424385	160582	101601	63808	40048	27144	15514	7765	4211	3504	209

Table 34—*Volume of growing-stock trees on timberland by species and diameter class, Central Mississippi, 1987*

Species	All classes	Diameter class (inches at breast height) 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										
Longleaf pine	50.6	1.2	4.1	5.5	13.8	12.6	7.5	4.6	1.2	...	...
Slash pine	20.3	...	4.2	4.1	6.1	1.5	3.5	0.8	...	...	...
Shortleaf pine	625.1	36.4	104.2	144.9	133.3	91.4	74.7	27.8	6.2	6.3	...
Loblolly pine	1958.5	124.2	193.1	257.5	305.6	348.1	272.9	183.7	119.5	145.1	8.8
Spruce pine	106.3	3.8	4.6	5.5	9.7	17.1	12.6	12.4	17.0	22.0	1.6
Redcedar	13.2	3.8	2.2	4.2	1.3	0.8	0.8	...	...	...	...
Cypress	8.6	0.3	...	0.8	0.6	1.6	2.2	0.7	0.6	1.9	...
Total softwoods	2782.6	169.7	312.4	422.6	470.4	473.1	374.1	230.0	144.6	175.3	10.4
Select white oaks	244.7	16.9	27.6	30.7	35.1	32.7	34.7	23.4	18.5	23.4	1.6
Select red oaks	132.2	7.1	11.8	16.8	16.7	15.6	18.0	14.7	11.0	17.3	3.1
Other white oaks	152.0	14.3	24.1	28.1	22.4	26.4	15.5	8.1	7.2	5.5	0.5
Other red oaks	679.4	48.3	63.3	93.1	98.1	99.4	78.8	65.7	50.7	68.9	13.0
Water hickory	0.5	0.5	...	...	...	...	...	...	...	...	...
Other hickories	168.2	12.6	17.7	26.3	31.0	26.8	22.3	14.8	11.2	5.6	...
Persimmon	5.9	1.8	1.7	2.4	...	...	...	...	...	...	...
Hard maple	0.4	...	...	...	...	...	0.4	...	...	...	...
Soft maple	42.7	14.3	9.8	9.4	6.5	1.2	0.4	0.4	0.7	...	...
Boxelder	3.8	0.4	0.9	1.3	0.8	0.4	...	...	...	...	...
Beech	19.6	1.0	0.4	0.4	1.8	2.4	2.1	4.6	0.4	4.9	1.7
Sweetgum	415.0	67.2	95.5	84.9	58.9	54.1	25.1	15.8	10.2	2.9	0.4
Blackgum	68.2	5.8	13.3	18.2	10.2	9.6	6.6	3.4	1.1	...	...
Other gums/tupelos	28.9	3.3	2.8	4.8	4.4	4.5	4.7	1.9	2.3	0.3	...
White ash	5.2	0.6	...	1.5	...	2.0	0.5	0.7	...	...	...
Other ashes	18.8	3.1	4.3	4.2	4.1	1.5	0.4	1.1	...	...	...
Sycamore	12.6	0.6	0.5	2.0	0.7	1.5	2.3	1.4	1.4	2.3	...
Cottonwood	2.7	...	1.6	...	0.7	...	...	...	0.4	...	...
Basswood	0.9	...	0.4	...	...	0.5	...	...	...	...	...
Yellow-poplar	100.8	7.5	9.4	11.0	12.5	15.3	11.3	10.7	7.9	13.3	2.0
Magnolia	1.9	0.3	0.3	0.8	...	...	...	0.5	...	...	...
Sweetbay	15.5	1.1	1.9	3.4	3.7	3.5	1.5	0.5	...	...	...
Willow	2.8	0.5	1.7	...	0.6	...	...	...	...	...	...
Black walnut	0.5	...	...	...	...	...	...	0.5	...	...	...
Black cherry	11.9	2.8	2.8	3.2	1.4	0.5	0.4	0.8	...	...	...
American elm	16.2	1.2	4.2	2.7	1.4	2.7	1.0	1.4	1.1	0.5	...
Other elms	29.1	6.2	5.0	7.3	1.6	3.7	2.3	2.5	0.5	...	...
River birch	1.4	...	...	...	...	0.9	...	...	0.5	...	...
Hackberry	12.4	1.3	1.4	2.6	2.4	0.4	0.5	1.7	0.5	0.6	0.9
Sassafras	3.8	1.4	0.9	0.3	...	0.6	0.6	...	...	...	...
Dogwood	2.3	2.1	0.2	...	...	...	...	...	...	...	...
Holly	1.5	0.5	0.8	0.2	...	...	...	...	...	...	...
Other commercial	0.2	...	...	0.2	...	...	...	...	...	...	...
Total hardwoods	2202.0	222.3	304.2	355.8	315.0	306.3	229.5	174.6	125.6	145.6	23.2
All species	4984.6	392.0	616.7	778.4	785.4	779.3	603.6	404.6	270.2	320.9	33.6

Table 35—*Volume of growing stock in the saw-log portion of sawtimber trees on timberland by detailed species and diameter class, Central Mississippi, 1987*

Species	All classes	Diameter class (inches at breast height) 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								
Longleaf pine	41.1	4.6	12.4	11.5	6.9	4.5	1.2	...	...
Slash pine	14.0	3.2	5.5	1.5	3.3	0.6	...	...	...
Shortleaf pine	432.6	120.8	121.2	84.4	68.8	25.9	5.8	5.7	...
Loblolly pine	1474.2	206.1	272.6	320.4	252.7	170.6	110.9	133.1	7.7
Spruce pine	89.3	4.3	8.4	15.7	11.4	11.4	16.0	20.7	1.4
Redcedar	5.7	3.2	1.0	0.8	0.7	...	...	...	...
Cypress	7.6	0.7	0.6	1.4	2.1	0.6	0.5	1.7	...
Total softwoods	2064.5	342.9	421.6	435.7	346.0	213.7	134.4	161.1	9.2
Select white oaks	140.1	...	26.3	27.1	29.2	19.8	15.6	20.4	1.6
Select red oaks	80.6	...	11.3	13.2	15.8	12.4	10.1	15.3	2.5
Other white oaks	72.4	...	17.9	22.9	13.3	6.8	6.2	4.8	0.4
Other red oaks	393.7	...	70.8	83.0	68.5	56.5	42.9	60.1	11.7
Other hickories	90.6	...	22.9	22.2	18.3	12.7	9.6	4.9	...
Hard maple	0.4	...	...	...	0.4	...	...	...	...
Soft maple	6.7	...	4.6	1.0	0.3	0.3	0.5	...	...
Boxelder	0.9	...	0.7	0.2	...	...	...	...	...
Beech	14.2	...	1.3	1.9	1.8	3.7	0.3	4.4	0.8
Sweetgum	133.3	...	41.2	44.2	21.7	14.1	9.2	2.5	0.4
Blackgum	25.5	...	7.6	8.2	5.9	3.0	0.9	...	...
Other gums/tupelos	15.4	...	3.2	4.1	4.4	1.6	1.9	0.3	...
White ash	2.5	...	...	1.5	0.4	0.6	...	...	...
Other ashes	5.1	...	2.8	1.0	0.4	0.9	...	...	...
Sycamore	7.7	...	0.5	1.2	2.0	1.1	1.1	1.9	...
Cottonwood	0.6	...	0.3	...	...	...	0.3	...	...
Basswood	0.5	...	...	0.5	...	...	...	...	...
Yellow-poplar	63.1	...	9.2	13.0	10.1	9.4	7.2	12.2	1.9
Magnolia	0.5	...	...	...	...	0.5	...	...	...
Sweetbay	7.3	...	2.4	3.0	1.4	0.4	...	...	...
Willow	0.4	...	0.4	...	...	...	...	...	...
Black walnut	0.4	...	...	...	...	0.4	...	...	...
Black cherry	2.5	...	1.0	0.4	0.4	0.7	...	...	...
American elm	6.6	...	1.2	2.0	0.9	1.2	1.0	0.5	...
Other elms	8.2	...	1.2	2.9	1.7	2.0	0.4	...	...
River birch	1.2	...	...	0.8	...	...	0.4	...	...
Hackberry	5.6	...	1.7	0.4	0.4	1.3	0.4	0.5	0.8
Sassafras	1.0	...	...	0.5	0.5	...	...	...	...
Total hardwoods	1087.1	...	228.5	255.3	197.6	149.4	108.2	127.9	20.2
All species	3151.6	342.9	650.1	691.0	543.6	363.1	242.6	289.0	29.4

Table 36—*Volume of timber on timberland by species and class of timber, Central Mississippi, 1987*

Species	All live	Growing stock	Rough	Rotten
	Million cubic feet			
Longleaf pine	51.2	50.6	0.7	...
Slash pine	20.9	20.3	0.6	...
Shortleaf pine	637.1	625.1	12.0	...
Loblolly pine	2040.9	1958.5	79.9	2.5
Spruce pine	110.7	106.3	3.8	0.6
Redcedar	16.1	13.2	2.9	...
Cypress	8.6	8.6	...	...
Total softwoods	2885.5	2782.6	99.9	3.1
Select white oaks	280.1	244.7	26.6	8.8
Select red oaks	145.0	132.2	11.9	1.0
Other white oaks	181.6	152.0	23.7	5.9
Other red oaks	792.1	679.4	87.0	25.7
Water hickory	0.9	0.5	0.4	...
Other hickories	194.4	168.2	16.8	9.5
Persimmon	6.7	5.9	0.8	...
Hard maple	0.4	0.4	...	...
Soft maple	69.5	42.7	24.0	2.8
Boxelder	5.8	3.8	2.0	...
Beech	37.2	19.6	10.4	7.2
Sweetgum	475.8	415.0	49.9	10.9
Blackgum	84.9	68.2	13.2	3.6
Other gums/tupelos	36.3	28.9	6.5	0.9
White ash	6.1	5.2	0.9	...
Other ashes	24.4	18.8	5.2	0.3
Sycamore	15.2	12.6	1.9	0.7
Cottonwood	2.7	2.7	...	...
Basswood	0.9	0.9	...	...
Yellow-poplar	115.6	100.8	11.6	3.1
Magnolia	2.1	1.9	0.2	...
Sweetbay	28.1	15.5	9.6	3.0
Willow	4.3	2.8	1.5	...
Black walnut	0.8	0.5	0.4	...
Black cherry	17.2	11.9	4.8	0.6
American elm	20.6	16.2	3.7	0.7
Other elms	34.4	29.1	4.9	0.3
River birch	1.9	1.4	0.3	0.2
Hackberry	15.9	12.4	3.2	0.3
Other locusts	0.3	...	0.3	...
Sassafras	4.3	3.8	0.6	...
Dogwood	7.9	2.3	5.5	...
Holly	3.6	1.5	1.7	0.4
Other commercial	4.7	0.2	3.0	1.4
Total hardwoods	2621.7	2202.0	332.4	87.3
Noncommercial	54.2	...	54.2	...
All species	5561.4	4984.6	486.4	90.3

Graphics

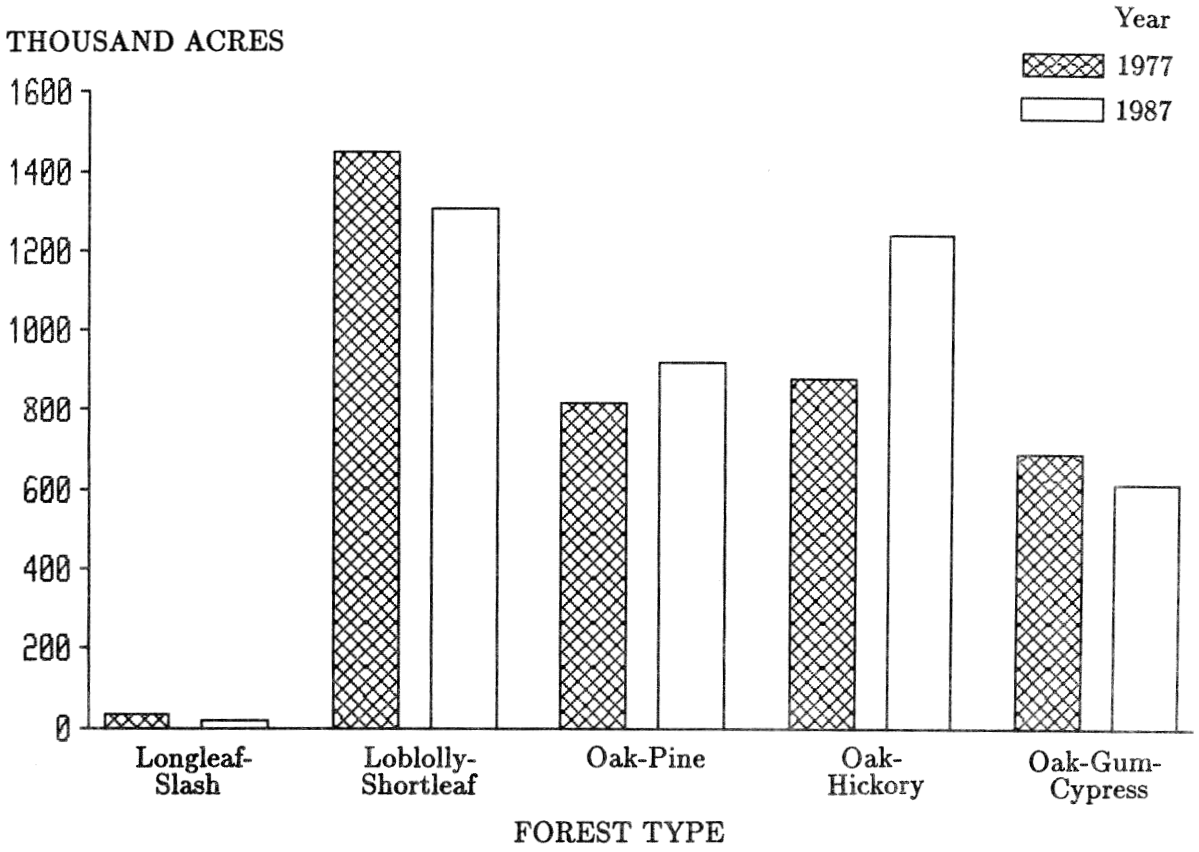

Figure 1.—*Area of timberland by forest type, Central Mississippi, 1977 and 1987.*

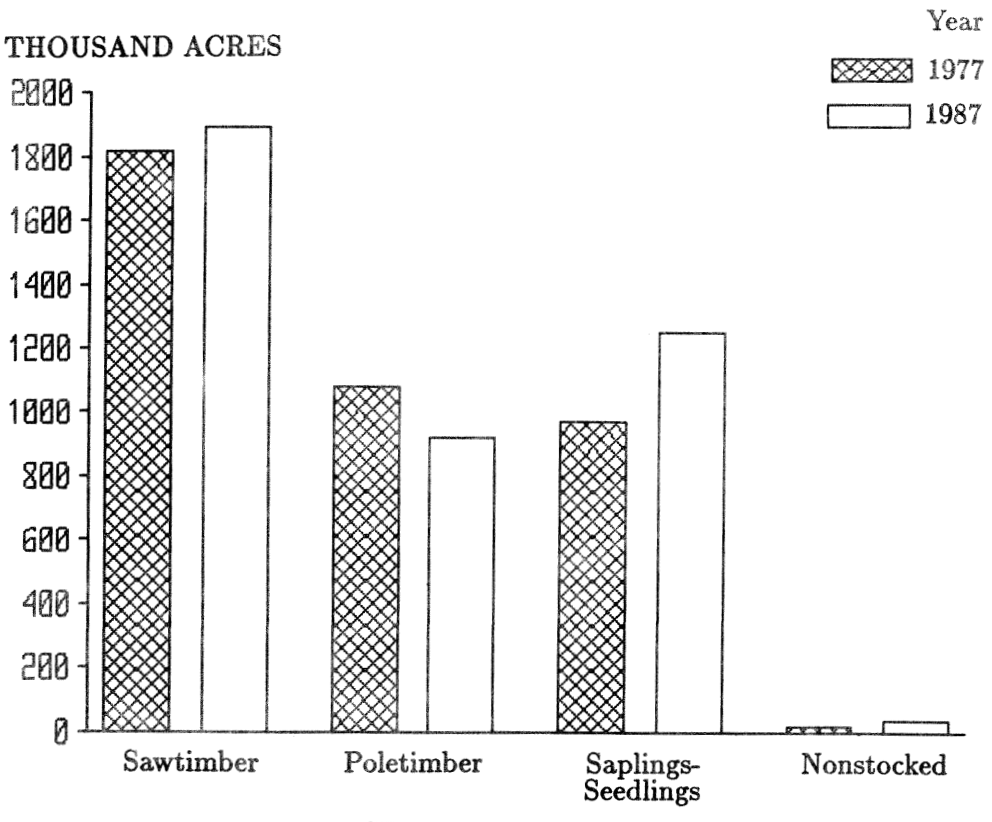

Figure 2.—*Area of timberland by stand-size class, Central Mississippi, 1977 and 1987.*

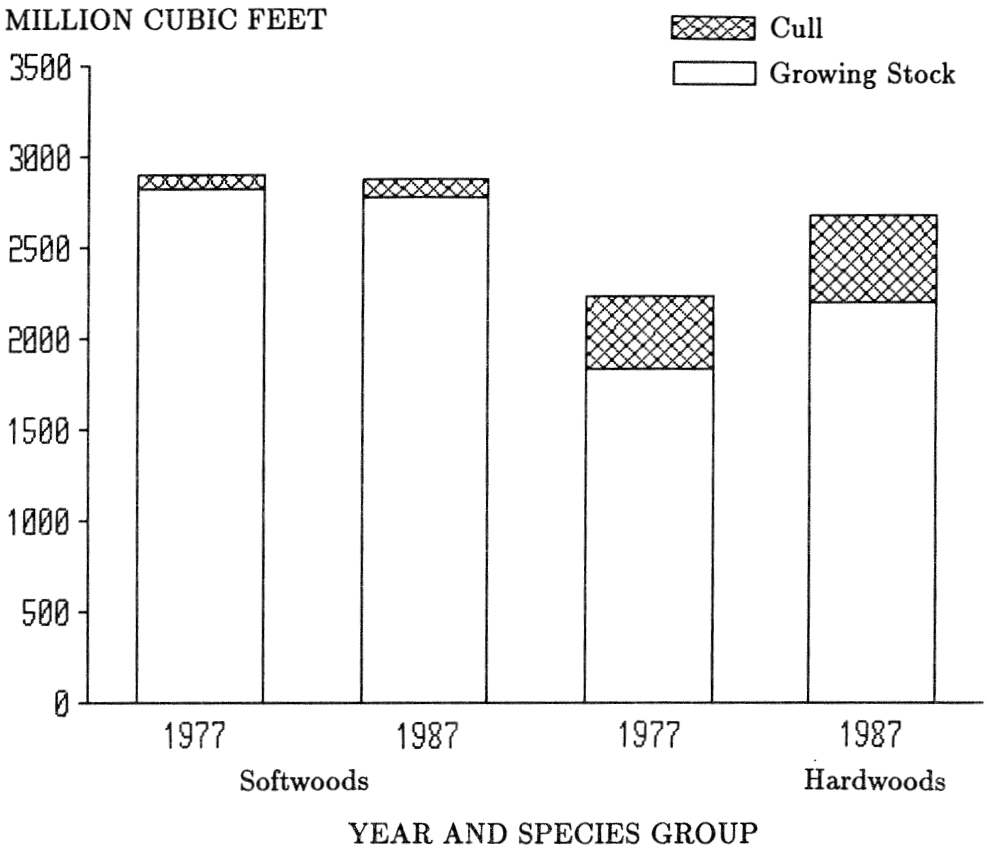

Figure 3.—*Volume of timber on timberland by species group and class of timber, Central Mississippi, 1977 and 1987.*

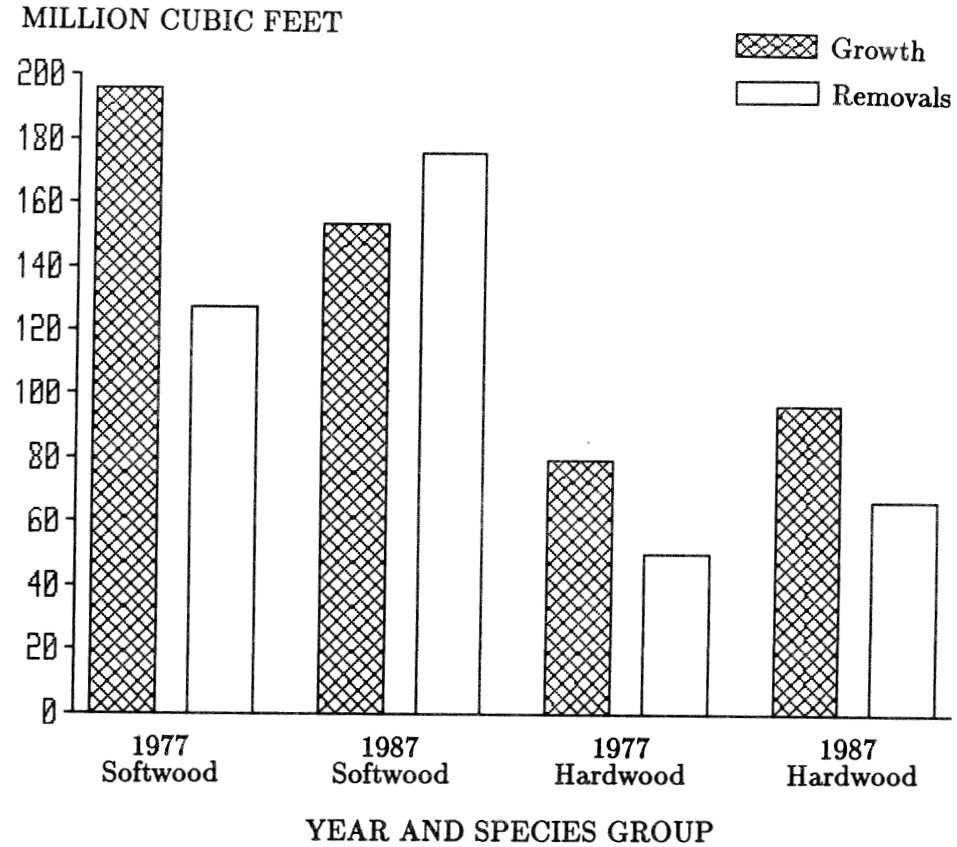

Figure 4.—*Average net annual growth and average annual removals of growing stock on timberland by species group, Central Mississippi, 1977 and 1987.*

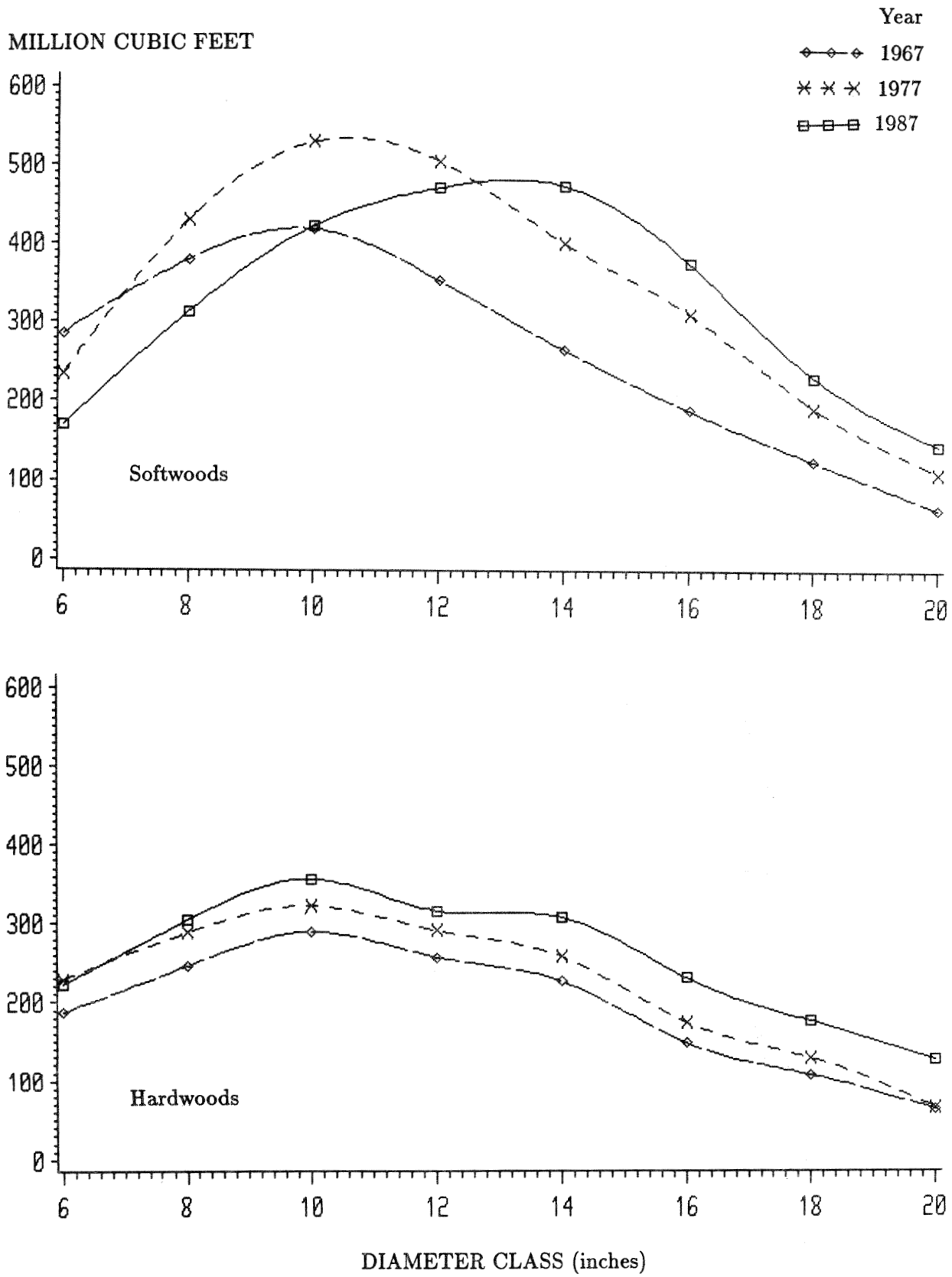

Figure 5.—*Volume of softwood and hardwood growing stock on timberland by diameter class, Central Mississippi, 1967, 1977, and 1987.*

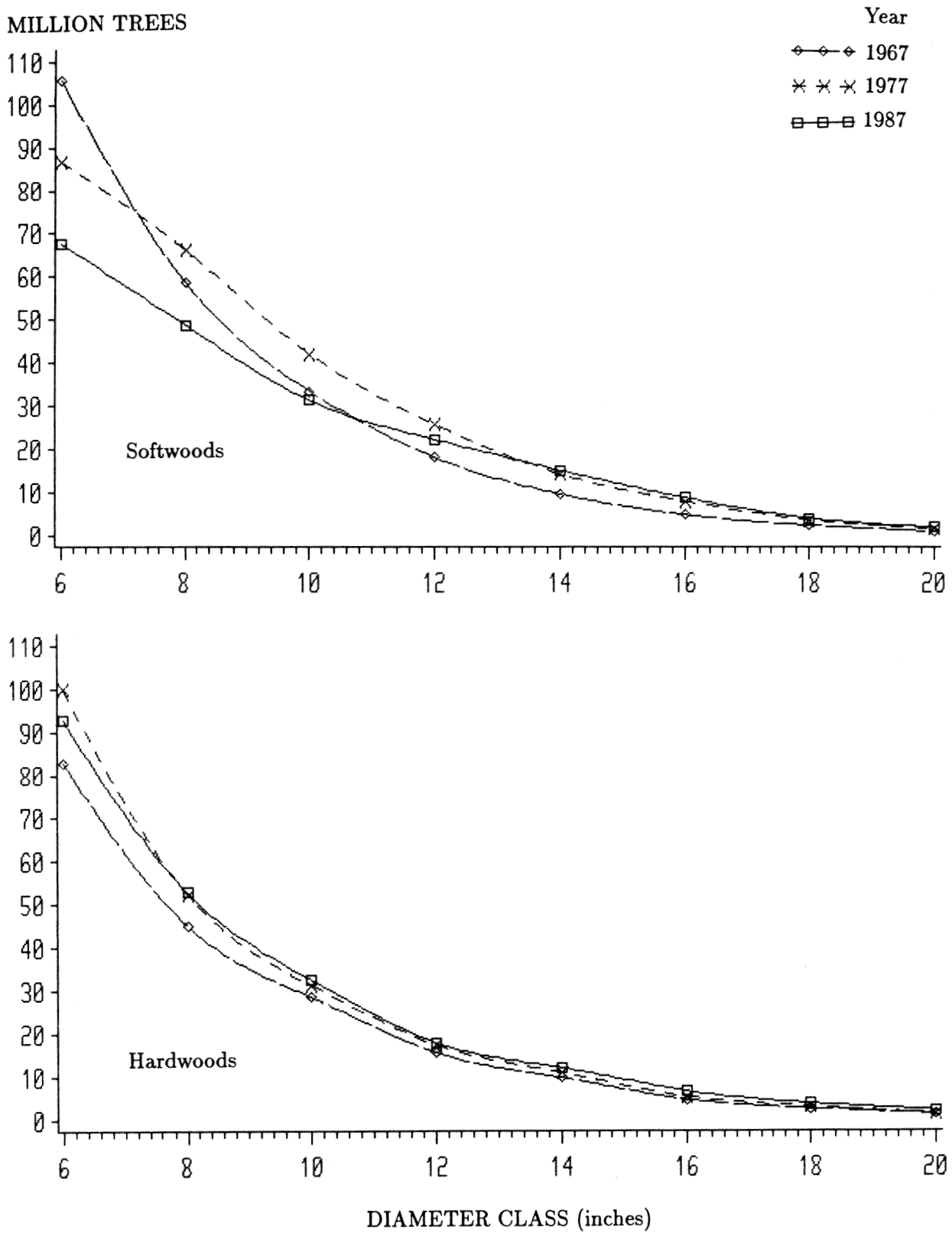

Figure 6.—*Number of softwood and hardwood growing stock trees on timberland by diameter class, Central Mississippi, 1967, 1977, and 1987.*

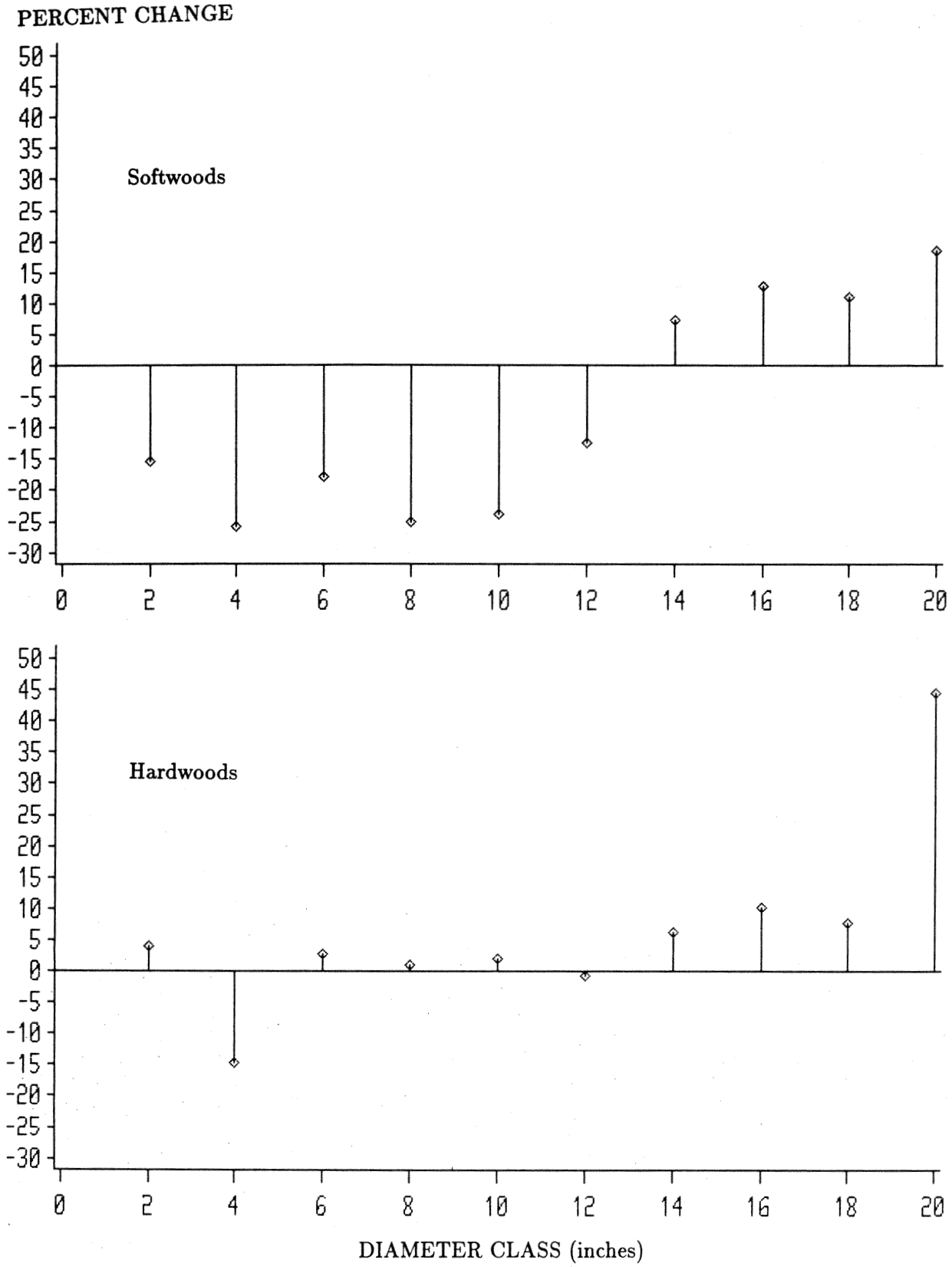

Figure 7.—*Percent change in the number of live softwood and hardwood trees by diameter class, Central Mississippi, 1977 to 1987.*