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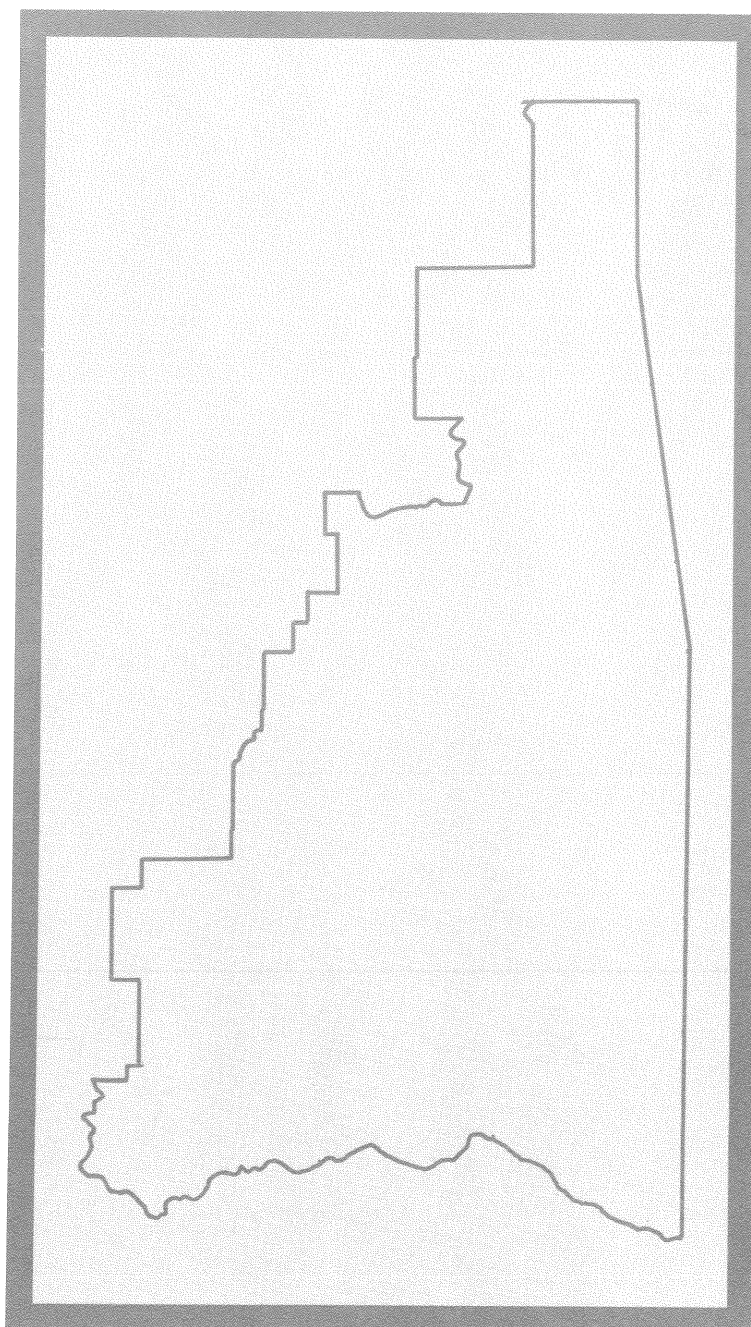
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The Woody Biomass Resource of East Oklahoma, 1993

James F. Rosson, Jr.



SUMMARY

Data from the 1993 east Oklahoma forest survey were used to derive fresh and dry biomass estimates for all trees, on timberland, greater than 1.0 inch in diameter at breast height (d.b.h.). There are 73.2 million fresh tons in softwood species and 203.0 million fresh tons in hardwood species. The woody biomass resource averages 27.5 and 43.4 tons per acre for softwoods and hardwoods where they occur, respectively. Most of this biomass is in the stem portion of the trees—84 percent for softwoods and 75 percent for hardwoods. Nonindustrial private landowners hold 38 and 76 percent of the total softwood and hardwood biomass resource, respectively.

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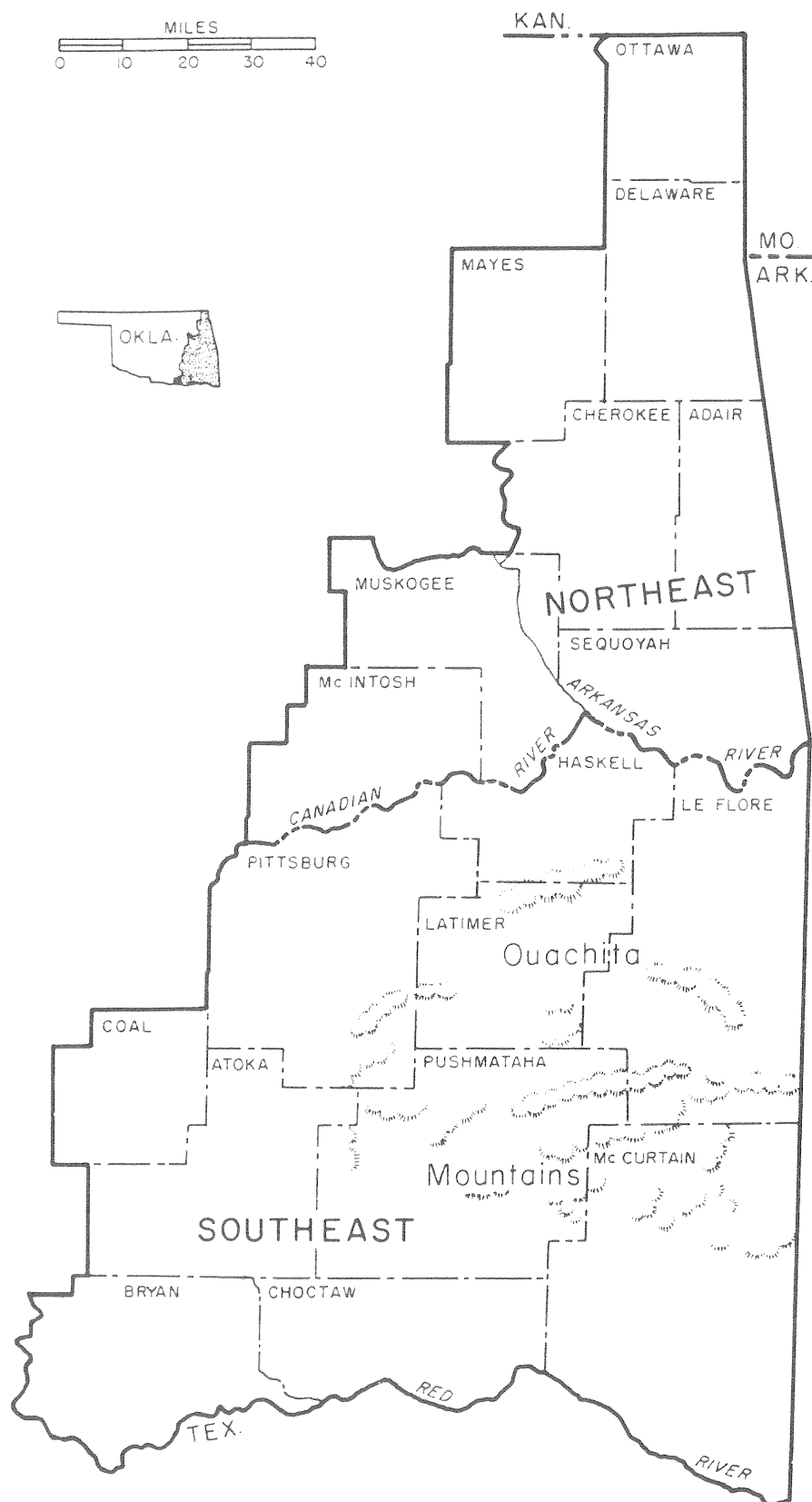


Figure 1.—East Oklahoma counties.

The Woody Biomass Resource of East Oklahoma, 1993

James F. Rosson, Jr.

INTRODUCTION

Data from the most recent east Oklahoma forest survey of the 18 eastern counties were used to derive estimates of wood and bark biomass by counties (fig. 1). The information is important to resource managers, legislators, policymakers, and procurement specialists in regard to the extent, location, and potential availability of the woody biomass resource in the State. The survey is designed to produce reliable estimates at the State level. To provide flexibility in analysis, however, information is presented by individual counties. Subsequently, users may combine county statistics for their particular area of interest. Fairly reliable estimates will result from aggregations of several counties (see statistical reliability section). Magnitude of standard errors dictates not using these data on a county-by-county basis.

Wood and bark biomass estimates for all trees on timberland are summarized in this report. The resource is described by dimension (size), forest type, ownership, species, stand attributes, and tree merchantability class. Shrub and herbaceous vegetation data were not included in these estimates. Also, only estimates pertaining to timberland acreage were included. Definitions of terms are given in appendix 1. A species list of all trees occurring in the sample, alphabetized by scientific name, is given in appendix 2.

All 62 resource tables are presented in appendix 3. Tables 1 through 4 describe timberland area by ownership class, forest type group, stand-size class, and basal area class, respectively. Tables 5 through 61 describe the biomass resource of species group by county (5–7), ownership class by county (8–13), forest type group by county (14–19), ownership class by forest type group (20–25), diameter class by species (26–31), diameter class by county (32–37), height class by species (38–43), height class by county (44–49), tree class by county (50–55), and basal area class by county (56–61). Table 62 gives sampling errors for individual counties. Major resource attributes are shown in appendix 4, figures 1 through 8.

METHODS

The inclusive dates for the east Oklahoma survey were June 1992 to December 1992. A total of 820 timberland sample plots on a 3-mile square grid were visited by field crews during this period. At each forested sample plot, all trees ≥ 5.0 inches in diameter at breast height (d.b.h.) were tallied with a 37.5 basal area factor (BAF) prism on 10 satellite points distributed over an area of approximately 1 acre. Trees ≥ 1.0 but < 5.0 inches in d.b.h. were tallied on three 0.0036-acre plots (7.1-foot radius circular plot). Twenty-three variables were assessed on each tree ≥ 5.0 inches in d.b.h. The variables most important to the assessment of biomass estimates were total tree height and stem d.b.h. Diameters were measured with metal tape and total heights with a clinometer.

Weights were derived for each inventory sample tree by applying regression equations and coefficients developed by the USDA Forest Service's Southeastern Forest Experiment Station headquartered at Asheville, North Carolina (Clark and others 1985, 1986a, 1986b; Clark and Saucier 1990; Clark and Schroeder 1986; Saucier and Clark 1985).

The following equations were used:

for trees ≥ 1.0 inch and < 5.0 inches in d.b.h.

$$Y = a'(D^2)^b$$

for softwood trees ≥ 5.0 inches and < 9.0 inches in d.b.h. and hardwood trees ≥ 5.0 inches and < 11.0 inches in d.b.h.

$$Y = a'(D^2TH)^b$$

for softwood trees ≥ 9.0 inches in d.b.h.
and hardwood trees ≥ 11.0 inches in d.b.h.

$$Y = a''(D^2)^b(TH)^c$$

where:

Y = fresh or oven-dry weight (based upon coefficients used)

D = tree d.b.h.

TH = total height of tree

a' , a'' , b , c = regression coefficients.

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Species-specific coefficients were used to estimate fresh and dry weights of trees ≥ 1.0 inch in d.b.h. When species-specific coefficients were not available for a particular species, general coefficients for softwoods, soft hardwoods (specific gravity < 0.50), and hard hardwoods (specific gravity > 0.50) were substituted. It has been demonstrated that these general coefficients derived from grouped species produce reliable estimates for regional surveys (Freedman 1984).

Wood and bark weights were computed for two components of each tree: (1) the total tree above a 1-foot stump to the uppermost twig tips and (2) the main stem (above a 1-foot stump to a stem terminus of 4 inches in diameter outside the bark). A third tree component, crown weight, was derived by subtracting stem weight from total tree weight. No merchantability standard of quality was applied to individual trees; all stem estimates were made to a 4-inch top.

STATISTICAL RELIABILITY

Three types of error were associated with these estimates: (1) estimating error, (2) application error, and (3) sampling error. The standard of accuracy of the statistics in these tables was governed by temporal and economic constraints. In large regional surveys, it is imperative that the factors of time and budget be maintained at optimum levels.

Estimating error involves three basic areas: (1) biased error, caused by instruments not properly calibrated, (2) compensating error, caused by instruments of moderate precision, and (3) accidental error, caused by human error in measuring and compiling. All of these errors were held to a minimum by a system that incorporates training, check plots, and an edit (consistency) check. Field personnel undergo training for 3 to 4 months under the guidance of field-experienced personnel. Field work was checked by supervisors. Editing checks in the office screened out logical and data entry errors on all plots. It is not possible to measure estimating error statistically, but the Southern Forest Experiment Station Forest Inventory and Analysis (SO-FIA) unit holds it to a minimum by adequate training, experienced supervision, and emphasis on careful work.

Application error comes from applying biomass estimator equations to deterministic measurements made on inventory sample trees. There were five principal errors: (1) some species may have had no equations developed; therefore, coefficients for other "similar" species were substituted, (2) the size range of biomass sample trees may not cover the full range of sizes encountered in a large-scale inventory, (3) the geographic range of the inventory may be outside that of the biomass sample trees, (4) trees used in developing biomass coefficients were from fully stocked stands; inventory plots ranged from nonstocked to overstocked,

and (5) a statistical error was associated with the biomass equations. None of these errors were accounted for in the tables.

Sampling error is the error associated with natural and expected deviation of the sample from the population mean. Thus, the deviation was susceptible to a mathematical evaluation of the probability of error. Sampling errors in table 62 were based on one standard deviation. That is, the chances are two out of three that if the results of a 100-percent census were known, the sample results would be within the limits indicated.

Estimates smaller than State totals will have resultant larger sampling errors. The smaller the area examined, the larger the sampling error. In addition, as area or biomass totals are stratified by forest type, species, diameter class, ownership, or other subunits, the sampling error increases and is greatest for the smallest divisions. The computed sampling error takes the area estimate error into account. The following formula was used to derive the sampling error for this report:

$$SE = \sqrt{(A)^2 (S_y^2) + (\bar{Y}_w)^2 (S_A^2)} \times 100$$

where:

SE = sampling error

A = area of timberland

S_y^2 = variance of weighted mean biomass estimate

$\bar{Y}_w$ = weighted mean of biomass estimate

S_A^2 = variance of timberland area estimate.

The error of the area estimate contributed very little to the sampling error at the State level (≈ 0.1 percent) but could be substantial at sub-State levels of computation.

Biomass resource information is reported by individual east Oklahoma counties, thereby allowing computation of statistical confidence for any combination of counties. Sampling error may be estimated by using the following formula:

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

where:

SE = standard error of estimate
(expressed as a percentage)

X = variable of interest (area or volume)

g = group of counties to be combined

t = total for the unit.

For example, statistics for dry weight of hardwood stems in Atoka, Coal, and Pittsburg counties are derived as follows:

$$SE_g = \frac{2.7 \sqrt{178,600.4}}{\sqrt{19,219.0}} = \frac{1,141.1}{138.6} = 8.2 \text{ percent}$$

The 95-percent confidence interval is:

$$19,219.0 \pm 1.96 (0.082 \times 19,219.0) = 19,219.0 \pm 3,088.9$$

The sampling error for hardwood stem dry weight for the three counties is 8.2 percent. The 95-percent confidence interval is 16,130.1 to 22,307.9 million dry pounds. This means that this interval covers the true biomass dry weight of hardwood stems for these three counties unless a 1 in 20 chance of a random event has occurred.

RESOURCE HIGHLIGHTS

Timberland Area

There are 4.9 million acres of timberland in east Oklahoma according to the 1993 survey. The nonindustrial private forest (NIPF) owners hold 67 percent (3.3 million acres) of the total, forest industry holds 21 percent (1.0 million acres), with the remaining 12 percent (0.6 million acres) in the public domain.

Most of the State's timberland is in the oak-hickory forest type, 2.6 million acres. There are 1.1 and 0.7 million acres, respectively, in the loblolly-shortleaf and oak-pine types. Bottomland hardwoods make up only 0.5 million acres in east Oklahoma.

Softwood Biomass

The 1993 survey shows there are 73.2 million fresh tons of softwood biomass in east Oklahoma. Most of this is in the stem component, 61.2 million tons, whereas 12.0 million tons are in the crown component (fig. 1). Dry weight biomass for softwoods is 36.2 million tons—30.9 million tons in the stem component and 5.4 million tons in the crown component. Forty-six percent of east Oklahoma timberland holds only 13 percent of total softwood biomass (appendix 4, fig. 2).

Hardwood Biomass

A total of 203.0 million fresh tons of hardwood biomass is on east Oklahoma's timberland. Most of this, 151.5 million tons, is in the stem component; 51.2 million tons is in the crown component (appendix 4, fig. 1).

Dry weight hardwood biomass is 117.7, 89.3, and 28.4 million tons for total tree, stem, and crown components, respectively. Fifty-two percent of hardwood biomass is on 26 percent of the timberland (appendix 4, fig. 3).

Ownership

Nonindustrial private owners have 181.9 million fresh tons of biomass (103.3 million dry tons) (appendix 4, fig. 4). This is 66 percent of the total forest resource. Forest industry holds 54.1 million fresh tons (28.7 million dry tons). The remaining 40.2 million fresh tons is in the public domain.

Forest Type

The oak-hickory forest type has 136.1 million fresh tons of biomass (78.5 million dry tons), followed by 69.2 million fresh tons in the loblolly-shortleaf pine type (35.7 million dry tons). These two forest types collectively account for 74 percent of all fresh weight biomass (appendix 4, fig. 5). The remaining 26 percent of fresh biomass is in the oak-pine and bottomland hardwoods types.

Diameter Class

A major portion of the State's biomass is in trees ≥ 3.0 and < 15.0 inches in d.b.h. Trees in this diameter range account for 201.7 million fresh tons (112.2 million dry tons) or 73 percent of the total biomass resource (appendix 4, fig. 6).

Tree Class

There are 158.2 million fresh tons (85.6 million dry tons) of biomass in growing-stock trees ≥ 5.0 inches in d.b.h. (appendix 4, fig. 7). Rough and rotten trees account for 66.8 million fresh tons (39.1 million dry tons) of biomass. Salvable dead trees account for only 1.0 million fresh tons, less than one-half of 1 percent of the total biomass resource.

Species

The predominant tree species in east Oklahoma is shortleaf pine, with 50.5 million fresh tons (24.8 million dry tons) of biomass. Post oak ranked second in dominance with 49.2 million fresh tons (30.4 million dry tons) followed by black oak with 20.9 million fresh tons (12.0 million dry tons) and loblolly pine with 20.2 million fresh tons (10.2 million dry tons). Together, these four species account for 51 percent of the State's fresh weight biomass.

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Appendixes

Appendix 1.—Definitions of Terms

Forest Land Classes

Forest land—Land at least 10.7 percent stocked by forest trees of any size or formerly having such tree cover and not currently developed for nonforest uses. Minimum area considered for classification is 1 acre. The Forest Service inventory defines three types of forest land: reserved forest land, timberland, and woodland, all defined below.

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

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.

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

Tree Classes

Commercial species—Tree species currently or prospectively suitable for industrial wood products. Excluded are noncommercial species. See species list.

Cull trees—Rough or rotten trees.

Growing-stock trees—Living trees of commercial species. Trees must have one 12-foot or two 8-foot logs, currently or potentially, to be classified as growing stock. The log(s) must meet dimension and merchantability standards to qualify. Trees must also have, currently or potentially (if too small to qualify), one-third of the gross board-foot volume in sound wood.

Hardwoods—Dicotyledonous trees, usually broad leaved and deciduous.

Live trees—All trees that are alive. Included are all size classes (≥ 1.0 inch in d.b.h.), all tree classes, and both commercial and noncommercial species.

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

Nonsalvable dead trees—Standing or downed dead trees that were formerly growing stock or cull and are not considered merchantable at the time of the survey. (Do not meet soundness, tree class, or size requirements under salvable dead tree definition.)

Rotten trees—Live trees of commercial species that are unmerchantable for sawlogs, currently or potentially, because of rot deduction in the sawlog portion. See growing-stock trees.

Rough trees—Live trees of commercial species that are unmerchantable for sawlogs, currently or potentially, because of roughness or poor form in the sawlog

portion. Also includes all live trees of noncommercial species. See growing-stock trees.

Salvable dead trees—Standing or downed dead trees that were formerly growing stock and are considered merchantable. One-third of the board-foot volume must be sound in softwoods ≥ 9.0 inches in d.b.h., and one-half of the board-foot volume sound in hardwoods ≥ 11.0 inches in d.b.h.; one-half of the cubic-foot volume must be sound in softwoods < 9.0 inches in d.b.h. and sound in hardwoods < 11.0 inches in d.b.h. All salvable dead trees must be ≥ 5.0 inches in d.b.h. to qualify.

Softwoods—Coniferous trees, usually evergreen, having needles or scalelike leaves.

Forest Type Groups

Elm-ash-cottonwood—Forests in which elms, ashes, or cottonwood, singly or in combination, comprises a plurality of the stocking. Common associates include willow, sycamore, beech, and maples.

Loblolly-shortleaf pine—Forests in which pines (except longleaf or slash pines) or eastern redcedar, singly or in combination, comprises a plurality of the stocking. Common associates include oaks, hickories, and gums.

Nontyped—Timberland currently unoccupied by any live trees or seedlings; very recent clearcut areas.

Oak-gum-cypress—Bottomland forests in which tupelo, blackgum, sweetgum, oaks, or cypress, singly or in combination, comprises a plurality of the stocking, except where pines comprise 25 to 49 percent, in which case the stand would be classified oak-pine. Common associates include cottonwood, willow, ashes, elms, hackberries, and maples.

Oak-hickory—Forests in which upland oaks or hickories, singly or in combination, comprise a plurality of the stocking, except where pines comprise 25 to 49 percent, in which case the stand would be classified oak-pine. Common associates include yellow-poplar, elms, maples, and black walnut.

Oak-pine—Forests in which hardwoods (usually upland oaks) comprise a plurality of the stocking but in which pines comprise 25 to 49 percent of the stocking. Common associates include gums, hickories, and yellow-poplar.

Biomass

Crown weight—Weight of wood and bark in upper branches. Crown weight equals total tree weight minus stem weight.

Dry weight—Mass of tree component when oven-dried to a constant weight at 215 °F.

Fresh weight—Mass of tree component at time of cutting.

Stem weight—Weight of wood and bark in central stem from a 1-foot stump to a 4-inch top. No merchantability standards are used to define the terminus of the stem; all trees ≥ 5.0 inches in d.b.h. are configured to a 4-inch top, trees < 5.0 inches in d.b.h. are configured from a 1-foot stump to the central stem twig tip.

Total tree weight—Weight of wood and bark from a 1-foot stump to twig tips. Leaves, flowers, fruits, and roots are not included.

Ownership Classes

Forest industry lands—Lands owned by companies or individuals operating wood-using plants (either primary or secondary).

Public lands (include the following):

National forest lands—Federal lands that have been legally designated as national forests or purchase units and other lands under the administration of the USDA Forest Service, including experimental areas.

Other Federal lands—Federal lands other than national forests.

State, county, and municipal lands—Lands owned by States, counties, and local public agencies or municipalities, or lands leased to these governmental units for 50 years or more.

Nonindustrial private lands; NIPF (include the following):

Farmer-owned lands—Lands operated as a unit of 10 acres or more from which the sale of agricultural products totals \$1,000 or more annually.

Nonindustrial private lands (corporate)—Lands privately owned by corporations other than forest industries and incorporated farms.

Nonindustrial private lands (individual)—Lands privately owned by individuals other than forest industries, farmers, or miscellaneous private corporations.

Miscellaneous Definitions

Basal area—The area in square feet of the cross section at breast height of a single tree (or summation of all the trees) in a stand, usually expressed in square feet per acre.

Diameter at breast height (d.b.h.)—Tree diameter in inches, outside bark, usually measured at 4½ feet above ground.

Natural pine—Pine trees on timberland that show no evidence of artificial regeneration.

Natural stands—Stands with no evidence of artificial regeneration, including stands established by seed tree regeneration methods.

Pines—Tree species of the genus *Pinus*.

Plantations—Stands regenerated by planting or seeding.

Planted pines—Pine trees on timberland that show evidence of planting or artificial seeding.

Appendix 2.—Species List

Species list* of trees ≥ 1.0 inch in d.b.h. occurring in the FIA sample, east Oklahoma, 1993

Genus	Specific epithet	Common name
Gymnosperms		
<i>Juniperus</i>	<i>virginiana</i>	Eastern redcedar
<i>Pinus</i>	<i>echinata</i>	Shortleaf pine
<i>P.</i>	<i>taeda</i>	Loblolly pine
<i>Taxodium</i>	<i>distichum</i>	Baldcypress
Angiosperms		
<i>Acer</i>	<i>barbatum</i>	Florida maple
<i>A.</i>	<i>negundo</i>	Boxelder
<i>A.</i>	<i>rubrum</i>	Red maple
<i>A.</i>	<i>saccharinum</i>	Silver maple
<i>A.</i>	<i>saccharum</i>	Sugar maple
<i>Amelanchier</i>	<i>arborea</i>	Serviceberry
<i>Betula</i>	<i>nigra</i>	River birch
<i>Bumelia</i>	spp. [†]	Bumelia
<i>Carpinus</i>	<i>caroliniana</i> [†]	Blue beech, American hornbeam
<i>Carya</i>	spp.	Hickories
<i>C.</i>	<i>aquatica</i>	Water hickory
<i>C.</i>	<i>cordiformis</i>	Bitternut hickory
<i>C.</i>	<i>glabra</i>	Pignut hickory
<i>C.</i>	<i>illinoensis</i>	Pecan
<i>C.</i>	<i>myristiciformis</i>	Nutmeg hickory
<i>C.</i>	<i>ovata</i>	Shagbark hickory
<i>C.</i>	<i>texana</i>	Black hickory
<i>C.</i>	<i>tomentosa</i>	Mockernut hickory
<i>Castanea</i>	spp. [‡]	Chinkapin
<i>Celtis</i>	<i>laevigata</i>	Sugarberry
<i>C.</i>	<i>occidentalis</i>	Hackberry
<i>Cercis</i>	<i>canadensis</i> [†]	Eastern redbud
<i>Cornus</i>	<i>florida</i>	Flowering dogwood
<i>Crataegus</i>	spp. [†]	Hawthorn
<i>Diospyros</i>	<i>virginiana</i>	Common persimmon
<i>Fraxinus</i>	<i>americana</i>	White ash
<i>F.</i>	<i>pennsylvanica</i>	Green ash
<i>Gleditsia</i>	<i>aquatica</i>	Waterlocust
<i>G.</i>	<i>triacanthos</i>	Honeylocust
<i>Gymnocladus</i>	<i>dioicus</i>	Kentucky coffeetree
<i>Ilex</i>	<i>opaca</i>	American holly
<i>Juglans</i>	<i>nigra</i>	Black walnut
<i>Liquidambar</i>	<i>styraciflua</i>	Sweetgum
<i>Maclura</i>	<i>pomifera</i>	Osage-orange
<i>Melia</i>	<i>azedarach</i> [†]	Chinaberry
<i>Morus</i>	<i>alba</i> [†]	White mulberry
<i>M.</i>	<i>rubra</i>	Red mulberry
<i>Nyssa</i>	<i>sylvatica</i>	Blackgum, black tupelo
<i>Ostrya</i>	<i>virginia</i> [†]	Ironwood, eastern hophornbeam
<i>Planera</i>	<i>aquatica</i> [†]	Water-elm
<i>Platanus</i>	<i>occidentalis</i>	American sycamore
<i>Populus</i>	<i>deltoides</i>	Eastern cottonwood

Species list* of trees ≥ 1.0 inch in d.b.h. occurring in the FIA sample, east Oklahoma, 1993 – Continued

Genus	Specific epithet	Common name
<i>Prunus</i>	<i>serotina</i>	Black cherry
<i>P.</i>	spp. [†]	Plums, cherries (except black cherry)
<i>Quercus</i>	<i>alba</i>	White oak
<i>Q.</i>	<i>falcata</i>	Southern red oak
<i>Q.</i>	<i>falcata</i> var. <i>pagodifolia</i>	Cherrybark oak
<i>Q.</i>	<i>incana</i> [†]	Bluejack oak
<i>Q.</i>	<i>lyrata</i>	Overcup oak
<i>Q.</i>	<i>macrocarpa</i>	Bue oak
<i>Q.</i>	<i>marilandica</i> [†]	Blackjack oak
<i>Q.</i>	<i>michauxii</i>	Swamp chestnut oak
<i>Q.</i>	<i>muehlenbergii</i>	Chinkapin oak
<i>Q.</i>	<i>nigra</i>	Water oak
<i>Q.</i>	<i>nuttallii</i>	Nuttall oak
<i>Q.</i>	<i>palustris</i>	Pin oak
<i>Q.</i>	<i>phellos</i>	Willow oak
<i>Q.</i>	<i>rubra</i>	Northern red oak
<i>Q.</i>	<i>shumardii</i>	Shumard oak
<i>Q.</i>	<i>stellata</i>	Post oak
<i>Q.</i>	<i>velutina</i>	Black oak
<i>Robinia</i>	<i>pseudoacacia</i>	Black locust
<i>Salix</i>	<i>nigra</i>	Black willow
<i>Sassafras</i>	<i>albidum</i>	Sassafras
<i>Tilia</i>	<i>heterophylla</i>	White basswood
<i>Ulmus</i>	<i>alata</i>	Winged elm
<i>U.</i>	<i>americana</i>	American elm
<i>U.</i>	<i>crassifolia</i>	Cedar elm
<i>U.</i>	<i>pumila</i>	Siberian elm
<i>U.</i>	<i>rubra</i>	Slippery elm
<i>U.</i>	<i>serotina</i>	September elm
<i>Vaccinium</i>	<i>arboreum</i> [‡]	Tree sparkleberry

*Nomenclature after: Little, E.L., Jr. 1979. Checklist of United States trees (native and naturalized). Agric. Handb. 541. Washington, DC: U.S. Department of Agriculture. 375 p.

[†]Noncommercial species.

[‡]Noncommercial species and only recorded as mortality.

Appendix 3.—Tables

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Table 1.—Area of timberland by county and ownership class, east Oklahoma, 1993*

County	All classes	Ownership class			
		National forest	Other public	Forest industry	Nonindustrial private
-----Thousand acres-----					
Adair	227.2	0.0	7.6	0.0	219.6
Atoka	309.1	0.0	38.6	0.0	270.5
Bryan	156.3	0.0	6.0	0.0	150.3
Cherokee	260.8	0.0	33.4	0.0	227.4
Choctaw	191.9	0.0	21.9	0.0	170.0
Coal	58.2	0.0	0.0	0.0	58.2
Delaware	214.2	0.0	20.1	0.0	194.2
Haskell	157.5	0.0	11.7	17.5	128.4
Latimer	291.6	0.0	34.3	0.0	257.3
Le Flore	652.8	180.6	24.9	118.1	329.3
McCurtain	831.7	42.1	33.4	578.3	177.9
McIntosh	136.4	0.0	13.0	0.0	123.4
Mayes	125.2	0.0	20.9	0.0	104.4
Muskogee	107.0	0.0	32.1	0.0	74.9
Ottawa	46.7	0.0	0.0	0.0	46.7
Pittsburg	175.4	0.0	13.5	0.0	161.9
Pushmataha	739.6	0.0	30.3	333.4	375.9
Sequoyah	213.6	0.0	17.8	0.0	195.8
All counties	4,895.5	222.7	359.5	1,047.3	3,266.1

*Numbers in columns and rows may not total due to rounding.

Table 2.—Area of timberland by county and forest type group, east Oklahoma, 1993*

County	All classes	Forest type group				
		Loblolly-shortleaf pine	Oak-pine	Oak-hickory	Bottomland hardwoods [†]	Nontyped [‡]
-----Thousand acres-----						
Adair	227.2	7.6	0.0	219.6	0.0	0.0
Atoka	309.1	51.5	38.6	128.8	90.2	0.0
Bryan	156.3	0.0	0.0	120.3	36.1	0.0
Cherokee	260.8	6.7	6.7	227.4	20.1	0.0
Choctaw	191.9	21.9	11.0	120.7	38.4	0.0
Coal	58.2	0.0	0.0	33.2	24.9	0.0
Delaware	214.2	0.0	6.7	207.5	0.0	0.0
Haskell	157.5	11.7	29.2	81.7	35.0	0.0
Latimer	291.6	62.9	91.5	131.5	5.7	0.0
Le Flore	652.8	197.7	133.2	272.3	49.7	0.0
McCurtain	831.7	403.0	133.6	237.4	57.7	0.0
McIntosh	136.4	0.0	0.0	84.5	52.0	0.0
Mayes	125.2	7.0	0.0	104.4	13.9	0.0
Muskogee	107.0	0.0	0.0	101.7	5.4	0.0
Ottawa	46.7	0.0	0.0	46.7	0.0	0.0
Pittsburg	175.4	13.5	33.7	101.2	27.0	0.0
Pushmataha	739.6	315.2	206.1	200.1	18.2	0.0
Sequoyah	213.6	0.0	11.9	172.0	29.7	0.0
All counties	4,895.5	1,098.6	702.2	2,590.8	503.8	0.0

*Numbers in columns and rows may not total due to rounding.

[†]Includes oak-gum-cypress and elm-ash-cottonwood types.[‡]Timberland with 0.0 stocking in trees.

Table 3.—Area of timberland by county and stand-size class, east Oklahoma, 1993*

County	All classes	Stand-size class			
		Nonstocked [†]	Sapling- seedling	Poletimber	Sawtimber
		-----Thousand acres-----			
Adair	227.2	0.0	37.9	60.6	128.7
Atoka	309.1	0.0	83.7	135.3	90.2
Bryan	156.3	0.0	60.1	36.1	60.1
Cherokee	260.8	0.0	93.6	80.3	86.9
Choctaw	191.9	0.0	76.8	43.9	71.3
Coal	58.2	0.0	24.9	8.3	24.9
Delaware	214.2	0.0	80.3	60.3	73.6
Haskell	157.5	0.0	40.8	75.8	40.8
Latimer	291.6	0.0	51.5	131.5	108.6
Le Flore	652.8	0.0	176.3	313.4	163.1
McCurtain	831.7	0.0	257.7	374.7	199.4
McIntosh	136.4	0.0	26.0	65.0	45.5
Mayes	125.2	0.0	13.9	41.7	69.6
Muskogee	107.0	0.0	21.4	58.9	26.8
Ottawa	46.7	0.0	17.0	12.7	17.0
Pittsburg	175.4	0.0	67.5	47.2	60.7
Pushmataha	739.6	0.0	187.9	369.8	181.9
Sequoyah	213.6	0.0	77.1	89.0	47.5
All counties	4,895.5	0.0	1,394.5	2,004.3	1,496.6

*Numbers in columns and rows may not total due to rounding.

[†]Timberland less than 16.7 percent stocked.

Table 4.—Area of timberland by county and basal area class, east Oklahoma, 1993*

County	All classes	Basal area class [†] (Square feet/acre)					
		<30	30-59	60-89	90-119	120-149	>150
-----Thousand acres-----							
Adair	227.2	0.0	37.9	113.6	68.2	7.6	0.0
Atoka	309.1	38.6	90.2	96.6	64.4	19.3	0.0
Bryan	156.3	24.1	36.1	48.1	36.1	12.0	0.0
Cherokee	260.8	13.4	66.9	93.6	66.9	20.1	0.0
Choctaw	191.9	38.4	65.8	60.3	21.9	5.5	0.0
Coal	58.2	8.3	8.3	24.9	8.3	8.3	0.0
Delaware	214.2	20.1	60.3	93.7	40.2	0.0	0.0
Haskell	157.5	23.3	23.3	52.5	40.8	17.5	0.0
Latimer	291.6	22.9	57.2	108.6	68.6	22.9	11.4
Le Flore	652.8	41.9	117.3	213.6	184.1	84.3	11.6
McCurtain	831.7	77.8	189.1	283.8	193.1	73.0	14.9
McIntosh	136.4	19.5	45.5	39.0	19.5	13.0	0.0
Mayes	125.2	13.9	13.9	41.7	55.7	0.0	0.0
Muskogee	107.0	5.4	32.1	37.5	26.8	5.4	0.0
Ottawa	46.7	0.0	12.7	25.5	4.2	4.2	0.0
Pittsburg	175.4	33.7	27.0	101.2	6.7	6.7	0.0
Pushmataha	739.6	36.4	169.7	236.4	187.9	78.8	30.3
Sequoyah	213.6	17.8	65.3	83.1	47.5	0.0	0.0
All counties	4,895.5	435.5	1,118.5	1,753.8	1,140.8	378.6	68.3

*Numbers in columns and rows may not total due to rounding.

[†]Based upon all live trees ≥1.0 inch in d.b.h.

Table 5.—Biomass of wood and bark of live trees on timberland by county and species group, east Oklahoma, 1993*

County	Fresh weight					Dry weight						
	Softwood					Hardwood						
	Pine					Pine						
	All species	Planted	Natural	Other	Soft†	Hard†	All species	Planted	Natural	Other	Soft†	Hard†
-----Million pounds-----												
Adair	32,060.4	0.0	1,161.4	0.0	1,905.9	28,993.0	18,090.1	0.0	570.6	0.0	1,028.6	16,490.9
Atoka	30,865.8	0.0	5,692.7	144.3	4,292.4	20,736.4	17,474.2	0.0	2,804.5	74.2	2,312.1	12,283.4
Bryan	17,018.9	0.0	0.0	211.9	3,863.8	12,943.3	10,019.1	0.0	0.0	105.1	2,062.5	7,851.4
Cherokee	32,147.4	0.0	1,635.9	0.0	4,549.4	25,962.1	18,650.1	0.0	801.3	0.0	2,408.7	15,440.1
Choctaw	19,055.9	1,143.0	1,378.1	566.3	3,367.8	12,600.6	10,269.2	559.6	671.5	277.1	1,742.6	7,018.4
Coal	6,788.1	0.0	0.0	22.3	1,510.8	5,254.9	4,059.6	0.0	0.0	11.2	815.1	3,233.3
Delaware	22,062.4	0.0	599.2	131.3	1,431.7	19,900.2	12,827.8	0.0	299.0	66.5	754.2	11,708.0
Haskell	18,099.2	0.0	2,088.7	246.0	5,012.5	10,752.0	10,213.5	0.0	1,031.8	126.8	2,590.7	6,464.2
Latimer	30,062.2	0.0	11,025.4	514.5	757.4	17,764.9	16,769.4	0.0	5,411.0	262.7	404.8	10,690.9
Le Flore	79,258.7	5,947.0	21,777.1	750.8	10,356.2	40,427.7	43,467.5	3,000.7	10,661.2	380.6	5,487.9	23,937.1
McCurtain	97,790.7	26,854.3	19,903.6	539.3	10,954.9	39,538.5	51,979.4	13,528.9	9,780.7	288.8	5,727.2	22,653.8
McIntosh	13,578.2	0.0	0.0	142.7	3,847.1	9,588.4	7,903.6	0.0	0.0	71.8	2,046.3	5,785.6
Mayes	16,527.3	0.0	691.8	0.0	2,726.9	13,108.6	9,534.0	0.0	336.6	0.0	1,537.7	7,659.7
Muskogee	12,910.5	0.0	31.2	35.8	3,550.5	9,293.1	7,656.1	0.0	15.4	18.7	1,974.5	5,647.5
Ottawa	5,850.7	0.0	0.0	0.0	385.1	5,465.6	3,417.1	0.0	0.0	0.0	210.4	3,206.7
Pittsburg	15,007.8	0.0	2,808.6	358.6	2,071.0	9,769.7	8,553.1	0.0	1,383.8	181.7	1,137.6	5,850.0
Pushmataha	82,484.8	6,812.2	31,248.2	981.2	3,989.2	39,453.9	44,877.6	3,450.3	15,368.7	495.0	2,118.5	23,445.2
Sequoyah	20,734.4	0.0	640.8	237.3	2,876.7	16,979.6	12,003.2	0.0	312.8	119.3	1,526.3	10,044.8
All counties	552,303.4	40,756.5	100,682.8	4,882.4	67,449.3	338,532.4	307,764.5	20,539.5	49,448.9	2,479.4	35,885.6	199,411.1

*Numbers in columns and rows may not total due to rounding.

†Hardwood species with an average specific gravity of 0.50 or less.

‡Hardwood species with an average specific gravity greater than 0.50.

Table 6.—Biomass of wood and bark of stems in live trees on timberland by county and species group, east Oklahoma, 1993*

County	Fresh weight				Dry weight						
	Softwood			Hardwood	Softwood			Hardwood			
	Pine		Other		Pine		Other				
	All species	Planted			Natural	All species			Planted	Natural	
-----Million pounds-----											
Adair	24,128.9	0.0	991.2	0.0	1,453.0	21,684.7	0.0	496.1	0.0	810.7	12,340.1
Atoka	23,421.7	0.0	4,830.9	117.6	3,351.2	15,121.9	0.0	2,421.8	63.2	1,826.8	9,087.8
Bryan	12,745.7	0.0	0.0	171.3	3,060.7	9,513.7	7,539.2	0.0	87.4	1,673.3	5,776.8
Cherokee	24,400.8	0.0	1,409.4	0.0	3,563.4	19,428.0	14,270.3	0.0	699.7	0.0	11,666.9
Choctaw	14,534.0	1,003.0	1,174.9	494.5	2,645.7	9,215.8	7,856.2	497.9	580.0	244.8	5,139.8
Coal	4,981.2	0.0	0.0	16.7	1,149.9	3,814.6	2,959.4	0.0	0.0	8.7	2,332.3
Delaware	16,446.2	0.0	495.3	115.8	1,107.0	14,728.0	9,680.7	0.0	254.2	60.5	8,738.0
Haskell	13,767.5	0.0	1,752.6	204.0	3,829.9	7,981.0	7,852.0	0.0	882.3	109.9	4,874.3
Latimer	23,565.4	0.0	9,419.8	426.3	605.4	13,113.9	13,399.2	0.0	4,698.3	226.8	8,137.2
LeFlore	61,608.7	4,713.5	18,618.3	632.7	8,015.7	29,628.4	34,387.7	2,444.0	9,261.0	332.2	17,954.4
McCurtain	76,901.2	21,368.7	16,861.9	477.9	8,696.6	29,496.1	41,644.8	11,005.0	8,422.3	260.9	17,250.5
McIntosh	10,151.3	0.0	0.0	93.0	3,017.9	7,040.4	5,954.8	0.0	0.0	49.3	4,256.2
Mayes	12,480.9	0.0	593.6	0.0	2,094.3	9,793.0	7,205.1	0.0	292.6	0.0	1,189.2
Muskogee	9,678.2	0.0	26.8	32.2	2,769.2	6,850.0	5,754.3	0.0	13.3	17.6	5,723.3
Ottawa	4,464.2	0.0	0.0	0.0	307.2	4,157.0	2,629.9	0.0	0.0	0.0	4,159.0
Pittsburg	11,535.0	0.0	2,406.5	312.4	1,621.3	7,194.8	6,723.5	0.0	1,206.6	163.2	2,455.3
Pushmataha	64,957.4	5,153.9	26,799.4	818.3	3,085.2	29,100.7	36,203.1	2,695.7	13,417.4	426.5	17,964.7
Sequoyah	15,576.0	0.0	559.9	199.0	2,268.0	12,549.1	9,213.4	0.0	277.0	103.3	7,594.9
All counties	425,344.3	32,239.1	85,940.5	4,111.8	52,641.9	250,411.1	240,320.0	16,642.6	42,922.7	2,154.4	149,894.4

*Numbers in columns and rows may not total due to rounding.

†Hardwood species with an average specific gravity of 0.50 or less.

‡Hardwood species with an average specific gravity greater than 0.50.

Table 7.—Biomass of wood and bark of crowns in live trees on timberland by county and species group, east Oklahoma, 1993*

County	Fresh weight				Dry weight							
	Softwood			Hardwood	Softwood			Hardwood				
	All species	Pine		Other	Soft [†]	Hard [‡]	Pine		Other	Soft [†]	Hard [‡]	
		Planted	Natural				Planted	Natural				
-----Million pounds-----												
Adair	7,931.5	0.0	170.2	0.0	452.9	7,308.3	4,443.2	0.0	74.6	0.0	217.8	4,150.7
Atoka	7,444.2	0.0	861.8	26.7	941.2	5,614.5	4,074.6	0.0	382.7	11.0	485.3	3,195.7
Bryan	4,273.2	0.0	0.0	40.6	803.1	3,429.6	2,479.9	0.0	0.0	17.8	389.2	2,072.9
Cherokee	7,746.6	0.0	226.5	0.0	986.0	6,534.1	4,379.9	0.0	101.6	0.0	505.1	3,773.2
Choctaw	4,521.9	140.0	203.2	71.9	722.1	3,384.8	2,413.0	61.6	91.5	32.4	348.9	1,878.6
Coal	1,806.8	0.0	0.0	5.6	360.9	1,440.3	1,100.2	0.0	0.0	2.5	196.8	900.9
Delaware	5,616.2	0.0	103.9	15.4	324.7	5,172.2	3,147.1	0.0	44.8	6.0	126.2	2,970.1
Haskell	4,331.7	0.0	336.2	42.0	1,182.6	2,771.0	2,361.5	0.0	149.5	16.8	605.3	1,589.8
Latimer	6,496.9	0.0	1,605.7	88.2	151.9	4,651.0	3,370.2	0.0	712.7	35.9	67.9	2,553.7
Le Flore	17,650.0	1,233.4	3,158.8	118.1	2,340.5	10,799.2	9,079.8	556.8	1,400.1	48.4	1,091.8	5,982.8
McCurain	20,889.4	5,485.6	3,041.7	61.4	2,258.3	10,042.4	10,334.6	2,524.0	1,358.3	27.9	1,021.2	5,403.3
McIntosh	3,426.9	0.0	0.0	49.7	829.2	2,548.0	1,948.9	0.0	0.0	22.5	397.0	1,529.4
Mayes	4,046.3	0.0	98.1	0.0	632.6	3,315.6	2,328.8	0.0	44.0	0.0	348.4	1,936.4
Muskogee	3,232.4	0.0	4.4	3.6	781.3	2,443.1	1,901.8	0.0	2.2	1.1	410.0	1,488.5
Ottawa	1,386.5	0.0	0.0	0.0	78.0	1,308.5	787.2	0.0	0.0	0.0	35.8	751.4
Pittsburg	3,472.9	0.0	402.2	46.2	449.6	2,574.9	1,829.6	0.0	177.2	18.5	225.2	1,408.8
Pushmataha	17,527.3	1,658.4	4,448.8	162.9	904.0	10,353.2	8,674.5	754.6	1,951.3	68.5	419.6	5,480.5
Sequoyah	5,158.3	0.0	80.9	38.3	608.7	4,430.5	2,789.8	0.0	35.9	15.9	288.1	2,450.0
All counties	126,959.2	8,517.4	14,742.3	770.6	14,807.5	88,121.4	67,444.5	3,896.9	6,526.3	325.1	7,179.6	49,516.6

*Numbers in columns and rows may not total due to rounding.

[†]Hardwood species with an average specific gravity of 0.50 or less.

[‡]Hardwood species with an average specific gravity greater than 0.50.

Table 8.—Wood and bark fresh weight of live trees on timberland by county and ownership class, east Oklahoma, 1993*

County	Ownership class									
	All classes		National forest		Other public		Forest industry		Nonindustrial private	
	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡
----- Million pounds -----										
Adair	1,161.4	30,898.9	0.0	0.0	0.0	760.4	0.0	0.0	1,161.4	30,138.5
Atoka	5,837.0	25,028.8	0.0	0.0	1,940.4	1,827.1	0.0	0.0	3,896.6	23,201.7
Bryan	211.9	16,807.1	0.0	0.0	0.0	906.0	0.0	0.0	211.9	15,901.1
Cherokee	1,635.9	30,511.5	0.0	0.0	0.0	5,047.6	0.0	0.0	1,635.9	25,463.9
Choctaw	3,087.5	15,968.4	0.0	0.0	194.2	1,872.4	0.0	0.0	2,893.3	14,096.0
Coal	22.3	6,765.7	0.0	0.0	0.0	0.0	0.0	0.0	22.3	6,765.7
Delaware	730.4	21,331.9	0.0	0.0	54.0	2,318.1	0.0	0.0	676.4	19,013.8
Haskell	2,334.7	15,764.5	0.0	0.0	0.0	3,117.0	1,091.6	1,440.0	1,243.1	11,207.5
Latimer	11,540.0	18,522.3	0.0	0.0	1,816.9	1,027.3	0.0	0.0	9,723.1	17,495.0
Le Flore	28,474.9	50,783.8	15,002.1	10,063.5	0.0	2,945.3	6,383.2	6,983.5	7,089.6	30,791.4
McCurtain	47,297.2	50,493.4	5,823.6	6,414.9	1,667.1	3,499.0	34,069.4	23,501.3	5,737.1	17,078.3
McIntosh	142.7	13,435.5	0.0	0.0	0.0	1,758.0	0.0	0.0	142.7	11,677.5
Mayes	691.8	15,835.5	0.0	0.0	691.8	1,636.3	0.0	0.0	0.0	14,199.2
Muskogee	66.9	12,843.6	0.0	0.0	31.2	4,409.1	0.0	0.0	35.8	8,434.5
Ottawa	0.0	5,850.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,850.7
Pittsburg	3,167.2	11,840.6	0.0	0.0	113.4	708.5	0.0	0.0	3,053.8	11,132.2
Pushmataha	39,041.7	43,443.1	0.0	0.0	997.2	2,063.2	20,938.7	13,770.8	17,105.8	27,609.1
Sequoyah	878.1	19,856.3	0.0	0.0	28.8	1,625.3	0.0	0.0	849.3	18,231.0
All counties	146,321.7	405,981.8	20,825.7	16,478.4	7,535.0	35,520.6	62,483.0	45,695.6	55,478.0	308,287.1

*Numbers in columns and rows may not total due to rounding.

†Softwood species.

‡Hardwood species.

Table 9.—Wood and bark fresh weight of stems in live trees on timberland by county and ownership class, east Oklahoma, 1993*

County	Ownership class									
	All classes		National forest		Other public		Forest industry		Nonindustrial private	
	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡
----- Million pounds -----										
Adair	991.2	23,137.7	0.0	0.0	0.0	563.2	0.0	0.0	991.2	22,574.5
Atoka	4,948.5	18,473.2	0.0	0.0	1,638.8	1,394.1	0.0	0.0	3,309.7	17,079.1
Bryan	171.3	12,574.4	0.0	0.0	0.0	671.6	0.0	0.0	171.3	11,902.8
Cherokee	1,409.4	22,991.4	0.0	0.0	0.0	3,671.8	0.0	0.0	1,409.4	19,319.6
Choctaw	2,672.4	11,861.6	0.0	0.0	168.6	1,394.6	0.0	0.0	2,503.8	10,466.9
Coal	16.7	4,964.5	0.0	0.0	0.0	0.0	0.0	0.0	16.7	4,964.5
Delaware	611.1	15,835.0	0.0	0.0	46.3	1,726.7	0.0	0.0	564.9	14,108.4
Haskell	1,956.6	11,810.9	0.0	0.0	0.0	2,385.5	903.5	1,073.7	1,053.1	8,351.7
Latimer	9,846.1	13,719.3	0.0	0.0	1,543.8	750.0	0.0	0.0	8,302.3	12,969.2
Le Flore	23,964.6	37,644.1	12,905.0	7,404.4	0.0	2,123.0	5,079.7	5,292.9	5,980.0	22,823.8
McCurtain	38,708.5	34,192.7	4,887.2	4,683.7	1,424.1	2,615.0	27,627.1	18,007.9	4,770.1	12,886.0
McIntosh	93.0	10,058.3	0.0	0.0	0.0	1,329.0	0.0	0.0	93.0	8,729.3
Mayes	593.6	11,887.3	0.0	0.0	593.6	1,207.1	0.0	0.0	0.0	10,680.2
Muskogee	59.0	9,619.2	0.0	0.0	26.8	3,368.5	0.0	0.0	32.2	6,250.7
Ottawa	0.0	4,464.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,464.2
Pittsburg	2,718.8	8,816.1	0.0	0.0	100.9	494.7	0.0	0.0	2,617.9	8,321.4
Pushmataha	32,771.6	32,185.9	0.0	0.0	856.1	1,545.5	17,235.3	10,252.1	14,680.2	20,388.3
Sequoyah	758.8	14,817.2	0.0	0.0	23.5	1,219.8	0.0	0.0	735.3	13,597.4
All counties	122,291.3	303,052.9	17,792.2	12,088.2	6,422.4	26,460.0	50,845.5	34,626.6	47,231.2	229,878.1

*Numbers in columns and rows may not total due to rounding.

†Softwood species.

‡Hardwood species.

Table 10.—Wood and bark fresh weight of crowns in live trees on timberland by county and ownership class, east Oklahoma, 1993*

County	Ownership class									
	All classes		National forest		Other public		Forest industry		Nonindustrial private	
	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡
-----Million pounds-----										
Adair	170.2	7,761.2	0.0	0.0	0.0	197.2	0.0	0.0	170.2	7,564.1
Atoka	888.5	6,555.6	0.0	0.0	301.7	433.0	0.0	0.0	586.9	6,122.6
Bryan	40.6	4,232.7	0.0	0.0	0.0	234.4	0.0	0.0	40.6	3,998.3
Cherokee	226.5	7,520.1	0.0	0.0	0.0	1,375.8	0.0	0.0	226.5	6,144.3
Choctaw	415.1	4,106.9	0.0	0.0	25.6	477.8	0.0	0.0	389.5	3,629.1
Coal	5.6	1,801.2	0.0	0.0	0.0	0.0	0.0	0.0	5.6	1,801.2
Delaware	119.3	5,496.9	0.0	0.0	7.8	591.4	0.0	0.0	111.5	4,905.4
Haskell	378.1	3,953.6	0.0	0.0	0.0	731.5	188.2	366.3	189.9	2,855.8
Latimer	1,693.9	4,803.0	0.0	0.0	273.1	277.3	0.0	0.0	1,420.8	4,525.7
Le Flore	4,510.3	13,139.7	2,097.1	2,659.1	0.0	822.4	1,303.6	1,690.6	1,109.7	7,967.6
McCurtain	8,588.7	12,300.7	936.4	1,731.1	243.0	883.9	6,442.4	5,493.4	967.0	4,192.3
McIntosh	49.7	3,377.2	0.0	0.0	0.0	429.0	0.0	0.0	49.7	2,948.2
Mayes	98.1	3,948.2	0.0	0.0	98.1	429.2	0.0	0.0	0.0	3,519.0
Muskogee	8.0	3,224.4	0.0	0.0	4.4	1,040.6	0.0	0.0	3.6	2,183.8
Ottawa	0.0	1,386.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,386.5
Pittsburg	448.4	3,024.5	0.0	0.0	12.5	213.8	0.0	0.0	435.8	2,810.7
Pushmataha	6,270.1	11,257.2	0.0	0.0	141.1	517.8	3,703.4	3,518.7	2,425.6	7,220.8
Sequoyah	119.2	5,039.1	0.0	0.0	5.3	405.6	0.0	0.0	114.0	4,633.6
All counties	24,030.3	102,928.8	3,033.5	4,390.2	1,112.5	9,060.6	11,637.5	11,069.0	8,246.8	78,409.0

*Numbers in columns and rows may not total due to rounding.

†Softwood species.

‡Hardwood species.

Table 11.—Wood and bark dry weight of live trees on timberland by county and ownership class, east Oklahoma, 1993*

County	Ownership class									
	All classes		National forest		Other public		Forest industry		Nonindustrial private	
	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡
-----Million pounds-----										
Adair	570.6	17,519.5	0.0	0.0	0.0	437.0	0.0	0.0	570.6	17,082.5
Atoka	2,878.6	14,595.6	0.0	0.0	959.3	1,082.9	0.0	0.0	1,919.4	13,512.6
Bryan	105.1	9,914.0	0.0	0.0	0.0	548.4	0.0	0.0	105.1	9,365.6
Cherokee	801.3	17,848.8	0.0	0.0	0.0	2,954.2	0.0	0.0	801.3	14,894.6
Choctaw	1,508.2	8,761.0	0.0	0.0	94.1	921.8	0.0	0.0	1,414.1	7,839.2
Coal	11.2	4,048.3	0.0	0.0	0.0	0.0	0.0	0.0	11.2	4,048.3
Delaware	365.5	12,462.2	0.0	0.0	26.4	1,370.1	0.0	0.0	339.2	11,092.1
Haskell	1,158.6	9,054.9	0.0	0.0	0.0	1,583.4	538.3	848.1	620.3	6,623.4
Latimer	5,673.7	11,095.7	0.0	0.0	894.1	619.1	0.0	0.0	4,779.6	10,476.6
Le Flore	14,042.4	29,425.0	7,346.3	5,919.4	0.0	1,707.5	3,204.5	3,901.4	3,491.7	17,896.7
McCurtain	23,598.4	28,381.0	2,866.9	3,476.8	819.0	2,028.2	17,050.1	13,304.4	2,862.3	9,571.7
McIntosh	71.8	7,831.9	0.0	0.0	0.0	1,102.7	0.0	0.0	71.8	6,729.2
Mayes	336.6	9,197.3	0.0	0.0	336.6	964.6	0.0	0.0	0.0	8,232.7
Muskogee	34.1	7,622.0	0.0	0.0	15.4	2,601.6	0.0	0.0	18.7	5,020.4
Ottawa	0.0	3,417.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,417.1
Pittsburg	1,565.5	6,987.6	0.0	0.0	58.0	424.8	0.0	0.0	1,507.5	6,562.8
Pushmataha	19,313.9	25,563.7	0.0	0.0	489.6	1,258.4	10,401.1	8,091.7	8,423.2	16,213.6
Sequoyah	432.1	11,571.1	0.0	0.0	14.2	902.9	0.0	0.0	417.9	10,668.3
All counties	72,467.9	235,296.7	10,213.2	9,396.1	3,706.7	20,507.5	31,194.0	26,145.5	27,353.9	179,247.6

*Numbers in columns and rows may not total due to rounding.

†Softwood species.

‡Hardwood species.

Table 12.—Wood and bark dry weight of stems in live trees on timberland by county and ownership class, east Oklahoma, 1993

County	Ownership class									
	All classes		National forest		Other public		Forest industry		Nonindustrial private	
	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]
----- Million pounds -----										
Adair	496.1	13,150.9	0.0	0.0	0.0	334.7	0.0	0.0	496.1	12,816.2
Atoka	2,485.0	10,914.6	0.0	0.0	826.0	846.1	0.0	0.0	1,659.0	10,068.5
Bryan	87.4	7,451.9	0.0	0.0	0.0	405.7	0.0	0.0	87.4	7,046.2
Cherokee	699.7	13,570.5	0.0	0.0	0.0	2,125.7	0.0	0.0	699.7	11,444.8
Choctaw	1,322.7	6,533.5	0.0	0.0	82.3	697.9	0.0	0.0	1,240.3	5,835.7
Coal	8.7	2,950.7	0.0	0.0	0.0	0.0	0.0	0.0	8.7	2,950.7
Delaware	314.8	9,365.9	0.0	0.0	22.7	1,025.3	0.0	0.0	292.0	8,340.7
Haskell	992.2	6,859.8	0.0	0.0	0.0	1,208.5	454.7	644.7	537.4	5,006.6
Latimer	4,925.1	8,474.0	0.0	0.0	772.2	461.4	0.0	0.0	4,152.9	8,012.6
Le Flore	12,037.2	22,350.4	6,422.4	4,553.9	0.0	1,250.2	2,612.5	3,016.6	3,002.3	13,529.8
McCurtain	19,688.2	21,956.6	2,422.1	2,538.3	708.7	1,528.9	14,117.9	10,567.3	2,439.5	7,322.0
McIntosh	49.3	5,905.5	0.0	0.0	0.0	826.7	0.0	0.0	49.3	5,078.7
Mayes	292.6	6,912.5	0.0	0.0	292.6	698.6	0.0	0.0	0.0	6,213.9
Muskogee	30.8	5,723.5	0.0	0.0	13.3	2,014.3	0.0	0.0	17.6	3,709.2
Ottawa	0.0	2,629.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,629.9
Pittsburg	1,369.9	5,353.7	0.0	0.0	53.2	315.6	0.0	0.0	1,316.6	5,038.1
Pushmataha	16,539.6	19,663.5	0.0	0.0	426.8	989.3	8,752.7	6,244.2	7,360.2	12,430.0
Sequoyah	380.3	8,833.1	0.0	0.0	11.9	693.0	0.0	0.0	368.4	8,140.1
All counties	61,719.6	178,600.4	8,844.6	7,092.1	3,209.9	15,421.8	25,937.8	20,472.9	23,727.4	135,613.6

*Numbers in columns and rows may not total due to rounding.

†Softwood species.

‡Hardwood species.

Table 13.—Wood and bark dry weight of crowns in live trees on timberland by county and ownership class, east Oklahoma, 1993*

County	Ownership class									
	All classes		National forest		Other public		Forest industry		Nonindustrial private	
	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]
----- Million pounds -----										
Adair	74.6	4,368.6	0.0	0.0	0.0	102.3	0.0	0.0	74.6	4,266.3
Atoka	393.7	3,681.0	0.0	0.0	133.3	236.9	0.0	0.0	260.4	3,444.1
Bryan	17.8	2,462.1	0.0	0.0	0.0	142.7	0.0	0.0	17.8	2,319.4
Cherokee	101.6	4,278.3	0.0	0.0	0.0	828.5	0.0	0.0	101.6	3,449.8
Choctaw	185.5	2,227.5	0.0	0.0	11.8	223.9	0.0	0.0	173.7	2,003.5
Coal	2.5	1,097.7	0.0	0.0	0.0	0.0	0.0	0.0	2.5	1,097.7
Delaware	50.8	3,096.3	0.0	0.0	3.6	344.8	0.0	0.0	47.1	2,751.5
Haskell	166.4	2,195.1	0.0	0.0	0.0	374.9	83.5	203.4	82.9	1,616.8
Latimer	748.6	2,621.6	0.0	0.0	121.9	157.7	0.0	0.0	626.7	2,463.9
Le Flore	2,005.2	7,074.6	923.9	1,365.5	0.0	457.3	592.0	884.8	489.4	4,367.0
McCurtain	3,910.2	6,424.5	444.8	938.5	110.3	499.2	2,932.2	2,737.0	422.9	2,249.7
McIntosh	22.5	1,926.4	0.0	0.0	0.0	275.9	0.0	0.0	22.5	1,650.5
Mayes	44.0	2,284.8	0.0	0.0	44.0	266.0	0.0	0.0	0.0	2,018.8
Muskogee	3.3	1,898.5	0.0	0.0	2.2	587.3	0.0	0.0	1.1	1,311.2
Ottawa	0.0	787.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	787.2
Pittsburg	195.6	1,634.0	0.0	0.0	4.8	109.2	0.0	0.0	190.9	1,524.8
Pushmataha	2,774.3	5,900.2	0.0	0.0	62.8	269.1	1,648.4	1,847.5	1,063.0	3,783.6
Sequoyah	51.8	2,738.0	0.0	0.0	2.3	209.8	0.0	0.0	49.5	2,528.2
All counties	10,748.3	56,696.2	1,368.6	2,304.0	496.9	5,085.7	5,256.2	5,672.6	3,626.5	43,633.9

*Numbers in columns and rows may not total due to rounding.

†Softwood species.

‡Hardwood species.

Table 14.—Wood and bark fresh weight of live trees on timberland by county and forest type group, east Oklahoma, 1993*

County	Forest type group									
	All types		Loblolly-shortleaf pine		Oak-pine		Oak-hickory		Bottomland hardwoods†	
	Soft‡	Hard§	Soft‡	Hard§	Soft‡	Hard§	Soft‡	Hard§	Soft‡	Hard§
----- Million pounds -----										
Adair	1,161.4	30,898.9	675.3	426.6	0.0	0.0	486.2	30,472.3	0.0	0.0
Atoka	5,837.0	25,028.8	4,440.4	1,430.9	1,279.8	1,479.5	116.8	11,085.7	0.0	11,032.8
Bryan	211.9	16,807.1	0.0	0.0	0.0	211.9	12,927.7	0.0	3,879.3	0.0
Cherokee	1,635.9	30,511.5	936.1	217.0	386.6	463.1	313.2	24,034.2	0.0	5,797.2
Choctaw	3,087.5	15,968.4	2,132.0	794.4	443.0	481.9	512.5	11,762.1	0.0	2,930.1
Coal	22.3	6,765.7	0.0	0.0	0.0	0.0	22.3	2,082.8	0.0	4,682.9
Delaware	730.4	21,331.9	0.0	0.0	285.4	400.7	445.1	20,931.3	0.0	0.0
Haskell	2,334.7	15,764.5	585.1	447.8	1,440.5	1,760.5	269.0	6,983.7	40.2	6,572.5
Latimer	11,540.0	18,522.3	7,225.8	2,586.3	3,699.5	5,406.9	614.7	9,593.9	0.0	935.2
Le Flore	28,474.9	50,783.8	20,128.6	7,165.9	5,467.1	7,754.6	2,879.2	27,703.4	0.0	8,159.8
McCurtain	47,297.2	50,493.4	37,618.6	9,040.4	6,708.8	8,009.1	2,510.9	24,210.4	458.9	9,233.4
McIntosh	142.7	13,435.5	0.0	0.0	0.0	0.0	99.5	8,164.9	43.3	5,270.5
Mayes	691.8	15,835.5	691.8	440.0	0.0	0.0	0.0	12,886	0.0	2,511.9
Muskogee	66.9	12,843.6	0.0	0.0	0.0	0.0	66.9	12,272.0	0.0	571.6
Ottawa	0.0	5,850.7	0.0	0.0	0.0	0.0	0.0	5,850.7	0.0	0.0
Pittsburg	3,167.2	11,840.6	1,416.2	670.1	1,257.4	1,450.9	454.7	6,796.8	39.0	2,922.9
Pushmataha	39,041.7	43,443.1	28,366.3	10,888.7	9,059.1	12,795.1	1,616.2	17,482.3	0.0	2,277.0
Sequoyah	878.1	19,856.3	0.0	0.0	640.8	658.0	237.3	16,202.9	0.0	2,995.4
All counties	146,321.7	405,981.8	104,216.1	34,108.2	30,667.9	40,660.2	10,856.3	261,440.8	581.3	69,772.5

*Numbers in columns and rows may not total due to rounding.

†Includes oak-gum-cypress and elm-ash-cottonwood types.

‡Softwood species.

§Hardwood species.

Table 15.—Wood and bark fresh weight of stems in live trees on timberland by county and forest type group, east Oklahoma, 1993*

County	Forest type group									
	All types		Loblolly-shortleaf pine		Oak-pine		Oak-hickory		Bottomland hardwoods†	
	Soft‡	Hard§	Soft‡	Hard§	Soft‡	Hard§	Soft‡	Hard§	Soft‡	Hard§
----- Million pounds -----										
Adair	991.2	23,137.7	571.5	318.1	0.0	0.0	419.7	22,819.6	0.0	0.0
Atoka	4,948.5	18,473.2	3,793.7	1,022.8	1,061.6	1,135.3	93.2	8,143.9	0.0	8,171.1
Bryan	171.3	12,574.4	0.0	0.0	0.0	0.0	171.3	9,650.9	0.0	2,923.5
Cherokee	1,409.4	22,991.4	814.3	175.3	333.1	348.9	262.0	18,175.0	0.0	4,292.2
Choctaw	2,672.4	11,861.6	1,848.3	621.3	385.6	378.1	438.6	8,708.2	0.0	2,153.9
Coal	16.7	4,964.5	0.0	0.0	0.0	0.0	16.7	1,539.7	0.0	3,424.8
Delaware	611.1	15,835.0	0.0	0.0	222.0	304.9	389.1	15,530.2	0.0	0.0
Haskell	1,956.6	11,810.9	495.5	328.9	1,204.7	1,309.2	226.3	5,272.9	30.1	4,899.8
Latimer	9,846.1	13,719.3	6,149.9	1,911.4	3,162.3	4,026.8	533.8	7,096.8	0.0	684.3
Le Flore	23,964.6	37,644.1	16,911.8	5,449.0	4,634.7	5,708.2	2,418.1	20,258.5	0.0	6,228.4
McCurtain	38,708.5	38,192.7	30,554.2	6,941.6	5,652.3	6,017.6	2,100.7	18,269.3	401.3	6,964.1
McIntosh	93.0	10,058.3	0.0	0.0	0.0	0.0	65.5	6,136.4	27.5	3,921.8
Mayes	593.6	11,887.3	593.6	323.2	0.0	0.0	0.0	9,643.7	0.0	1,920.4
Muskogee	59.0	9,619.2	0.0	0.0	0.0	0.0	59.0	9,177.8	0.0	441.4
Ottawa	0.0	4,464.2	0.0	0.0	0.0	0.0	0.0	4,464.2	0.0	0.0
Pittsburg	2,718.8	8,816.1	1,207.8	530.6	1,077.2	1,131.5	399.4	5,023.1	34.4	2,130.9
Pushmataha	32,771.6	32,185.9	23,671.0	8,135.5	7,718.6	9,363.3	1,381.9	12,980.6	0.0	1,706.5
Sequoyah	758.8	14,817.2	0.0	0.0	559.9	512.0	199.0	12,098.9	0.0	2,206.3
All counties	122,291.3	303,052.9	86,611.6	25,757.8	26,012.1	30,236.0	9,174.3	194,989.6	493.4	52,069.5

*Numbers in columns and rows may not total due to rounding.

†Includes oak-gum-cypress and elm-ash-cottonwood types.

‡Softwood species.

§Hardwood species.

Table 16.—Wood and bark fresh weight of crowns in live trees on timberland by county and forest type group, east Oklahoma, 1993*

County	Forest type group									
	All types		Loblolly-shortleaf pine		Oak-pine		Oak-hickory		Bottomland hardwoods†	
	Soft‡	Hard§	Soft‡	Hard§	Soft‡	Hard§	Soft‡	Hard§	Soft‡	Hard§
-----Million pounds-----										
Adair	170.2	7,761.2	103.7	108.5	0.0	0.0	66.5	7,652.7	0.0	0.0
Atoka	888.5	6,555.6	646.7	408.1	218.2	344.1	23.7	2,941.8	0.0	2,861.7
Bryan	40.6	4,232.7	0.0	0.0	0.0	0.0	40.6	3,276.9	0.0	955.8
Cherokee	226.5	7,520.1	121.8	41.7	53.6	114.3	51.2	5,859.1	0.0	1,505.0
Choctaw	415.1	4,106.9	283.7	173.0	57.4	103.7	73.9	3,053.9	0.0	776.2
Coal	5.6	1,801.2	0.0	0.0	0.0	0.0	5.6	543.1	0.0	1,258.1
Delaware	119.3	5,496.9	0.0	0.0	63.4	95.8	56.0	5,401.1	0.0	0.0
Haskell	378.1	3,953.6	89.6	118.9	235.8	451.2	42.7	1,710.8	10.1	1,672.6
Latimer	1,693.9	4,803.0	1,075.9	675.0	537.2	1,380.0	80.8	2,497.2	0.0	250.8
Le Flore	4,510.3	13,139.7	3,216.8	1,716.9	832.4	2,046.4	461.2	7,444.9	0.0	1,931.5
McCurtain	8,588.7	12,300.7	7,064.4	2,098.8	1,056.5	1,991.5	410.1	5,941.1	57.6	2,269.3
McIntosh	49.7	3,377.2	0.0	0.0	0.0	0.0	33.9	2,028.5	15.8	1,348.7
Mayes	98.1	3,948.2	98.1	116.7	0.0	0.0	0.0	3,240.0	0.0	591.5
Muskogee	8.0	3,224.4	0.0	0.0	0.0	0.0	8.0	3,094.2	0.0	130.2
Ottawa	0.0	1,386.5	0.0	0.0	0.0	0.0	0.0	1,386.5	0.0	0.0
Pittsburg	448.4	3,024.5	208.4	139.5	180.2	319.3	55.3	1,773.7	4.5	792.0
Pushmataha	6,270.1	11,257.2	4,695.3	2,753.3	1,340.5	3,431.8	234.3	4,501.7	0.0	570.4
Sequoyah	119.2	5,039.1	0.0	0.0	80.9	146.0	38.3	4,104.0	0.0	789.1
All counties	24,030.3	102,928.8	17,604.5	8,350.4	4,655.8	10,424.3	1,682.1	66,451.2	87.9	17,703.0

*Numbers in columns and rows may not total due to rounding.

†Includes oak-gum-cypress and elm-ash-cottonwood types.

‡Softwood species.

§Hardwood species.

Table 17.—Wood and bark dry weight of live trees on timberland by county and forest type group, east Oklahoma, 1993*

County	Forest type group									
	All types		Loblolly-shortleaf pine		Oak-pine		Oak-hickory		Bottomland hardwoods†	
	Soft‡	Hard§	Soft‡	Hard§	Soft‡	Hard§	Soft‡	Hard§	Soft‡	Hard§
-----Million pounds-----										
Adair	570.6	17,519.5	334.4	254.9	0.0	0.0	236.2	17,264.6	0.0	0.0
Atoka	2,878.6	14,595.6	2,182.7	882.5	635.3	894.4	60.7	6,299.9	0.0	6,518.8
Bryan	105.1	9,914.0	0.0	0.0	0.0	0.0	105.1	7,571.4	0.0	2,342.6
Cherokee	801.3	17,848.8	456.5	132.8	191.1	276.4	153.7	14,142.0	0.0	3,297.7
Choctaw	1,508.2	8,761.0	1,041.7	401.1	216.2	271.3	250.3	6,482.7	0.0	1,605.9
Coal	11.2	4,048.3	0.0	0.0	0.0	0.0	11.2	1,251.6	0.0	2,796.8
Delaware	365.5	12,462.2	0.0	0.0	144.0	238.3	221.5	12,223.9	0.0	0.0
Haskell	1,158.6	9,054.9	290.5	271.6	712.2	1,030.6	134.9	4,130.5	21.0	3,622.2
Latimer	5,673.7	11,095.7	3,545.9	1,539.2	1,823.8	3,228.0	304.0	5,766.7	0.0	561.8
Le Flore	14,042.4	29,425.0	9,934.5	4,222.4	2,695.7	4,540.3	1,412.2	16,058.8	0.0	4,603.6
McCurtain	23,598.4	28,381.0	18,798.0	4,982.3	3,320.4	4,399.2	1,236.0	13,778.6	243.9	5,220.9
McIntosh	71.8	7,831.9	0.0	0.0	0.0	0.0	50.0	4,807.5	21.8	3,024.4
Mayes	336.6	9,197.3	336.6	248.4	0.0	0.0	0.0	7,476.6	0.0	1,472.3
Muskogee	34.1	7,622.0	0.0	0.0	0.0	0.0	34.1	7,269.5	0.0	352.5
Ottawa	0.0	3,417.1	0.0	0.0	0.0	0.0	0.0	3,417.1	0.0	0.0
Pittsburg	1,565.5	6,987.6	695.4	410.5	624.7	845.8	226.4	4,051.6	19.0	1,679.7
Pushmataha	19,313.9	25,563.7	14,042.2	6,448.8	4,469.0	7,615.8	802.8	10,179.9	0.0	1,319.2
Sequoyah	432.1	11,571.1	0.0	0.0	312.8	387.6	119.3	9,547.4	0.0	1,636.1
All counties	72,467.9	235,296.7	51,658.4	19,794.3	15,145.2	23,727.5	5,358.5	151,720.2	305.7	40,054.6

*Numbers in columns and rows may not total due to rounding.

†Includes oak-gum-cypress and elm-ash-cottonwood types.

‡Softwood species.

§Hardwood species.

Table 18.—Wood and bark dry weight of stems in live trees on timberland by county and forest type group, east Oklahoma, 1993*

County	Forest type group									
	All types		Loblolly-shortleaf pine		Oak-pine		Oak-hickory		Bottomland hardwoods [†]	
	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]
----- Million pounds -----										
Adair	496.1	13,150.9	289.6	191.0	0.0	0.0	206.4	12,959.9	0.0	0.0
Atoka	2,485.0	10,914.6	1,894.6	660.3	539.3	728.9	51.1	4,730.9	0.0	4,794.5
Bryan	87.4	7,451.9	0.0	0.0	0.0	0.0	87.4	5,728.9	0.0	1,723.0
Cherokee	699.7	13,570.5	401.1	121.4	168.4	208.8	130.3	10,864.4	0.0	2,375.9
Choctaw	1,322.7	6,533.5	915.4	315.8	189.8	220.1	217.5	4,802.3	0.0	1,195.3
Coal	8.7	2,950.7	0.0	0.0	0.0	0.0	8.7	929.4	0.0	2,021.3
Delaware	314.8	9,365.9	0.0	0.0	117.2	180.6	197.6	9,185.3	0.0	0.0
Haskell	992.2	6,859.8	250.7	213.7	608.1	780.3	116.6	3,202.9	16.8	2,662.9
Latimer	4,925.1	8,474.0	3,071.3	1,197.2	1,585.6	2,470.7	268.3	4,412.4	0.0	393.7
Le Flore	12,037.2	22,350.4	8,503.8	3,398.8	2,326.9	3,475.1	1,206.5	11,992.5	0.0	3,484.1
McCurtain	19,688.2	21,956.6	15,570.4	4,037.9	2,853.2	3,397.1	1,050.0	10,567.9	214.6	3,953.7
McIntosh	49.3	5,905.5	0.0	0.0	0.0	0.0	34.6	3,681.2	14.7	2,224.3
Mayes	292.6	6,912.5	292.6	179.0	0.0	0.0	0.0	5,622.7	0.0	1,110.8
Muskogee	30.8	5,723.5	0.0	0.0	0.0	0.0	30.8	5,462.2	0.0	261.3
Ottawa	0.0	2,629.9	0.0	0.0	0.0	0.0	0.0	2,629.9	0.0	0.0
Pittsburg	1,369.9	5,353.7	602.5	370.0	547.7	700.2	202.7	3,068.9	16.9	1,214.5
Pushmataha	16,539.6	19,663.5	11,957.4	5,013.7	3,881.1	5,786.4	701.2	7,857.5	0.0	1,005.9
Sequoyah	380.3	8,833.1	0.0	0.0	277.0	302.3	103.3	7,320.9	0.0	1,209.9
All counties	61,719.6	178,600.4	43,749.4	15,699.0	13,094.1	18,250.4	4,613.0	115,020.0	263.0	29,631.0

*Numbers in columns and rows may not total due to rounding.

†Includes oak-gum-cypress and elm-ash-cottonwood types.

‡Softwood species.

§Hardwood species.

Table 19.—Wood and bark dry weight of crowns in live trees on timberland by county and forest type group, east Oklahoma, 1993*

County	Forest type group									
	All types		Loblolly-shortleaf pine		Oak-pine		Oak-hickory		Bottomland hardwoods [†]	
	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]
----- Million pounds -----										
Adair	74.6	4,368.6	44.8	63.9	0.0	0.0	29.8	4,304.7	0.0	0.0
Atoka	393.7	3,681.0	288.1	222.2	96.0	165.5	9.6	1,568.9	0.0	1,724.3
Bryan	17.8	2,462.1	0.0	0.0	0.0	0.0	17.8	1,842.5	0.0	619.6
Cherokee	101.6	4,278.3	55.3	11.4	22.8	67.6	23.5	3,277.6	0.0	921.8
Choctaw	185.5	2,227.5	126.3	85.3	26.4	51.2	32.8	1,680.5	0.0	410.6
Coal	2.5	1,097.7	0.0	0.0	0.0	0.0	2.5	322.2	0.0	775.5
Delaware	50.8	3,096.3	0.0	0.0	26.8	57.7	24.0	3,038.6	0.0	0.0
Haskell	166.4	2,195.1	39.8	58.0	104.1	250.3	18.3	927.6	4.2	959.3
Latimer	748.6	2,621.6	474.6	342.0	238.2	757.3	35.8	1,354.3	0.0	168.1
Le Flore	2,005.2	7,074.6	1,430.8	823.5	368.9	1,065.2	205.6	4,066.3	0.0	1,119.5
McCurtain	3,910.2	6,424.5	3,227.6	944.4	467.2	1,002.2	186.0	3,210.7	29.3	1,267.2
McIntosh	22.5	1,926.4	0.0	0.0	0.0	0.0	15.4	1,126.3	7.1	800.1
Mayes	44.0	2,284.8	44.0	69.3	0.0	0.0	0.0	1,853.9	0.0	361.6
Muskogee	3.3	1,898.5	0.0	0.0	0.0	0.0	3.3	1,807.3	0.0	91.2
Ottawa	0.0	787.2	0.0	0.0	0.0	0.0	0.0	787.2	0.0	0.0
Pittsburg	195.6	1,634.0	92.9	40.4	77.0	145.6	23.6	982.8	2.1	465.2
Pushmataha	2,774.3	5,900.2	2,084.8	1,435.1	587.9	1,829.4	101.6	2,322.4	0.0	313.3
Sequoyah	51.8	2,738.0	0.0	0.0	35.9	85.2	15.9	2,226.6	0.0	426.2
All counties	10,748.3	56,696.2	7,909.0	4,095.4	2,051.1	5,477.1	745.5	36,700.2	42.6	10,423.5

*Numbers in columns and rows may not total due to rounding.

†Includes oak-gum-cypress and elm-ash-cottonwood types.

‡Softwood species.

§Hardwood species.

Table 20.—Wood and bark fresh weight of live trees on timberland by forest type group and ownership class, east Oklahoma, 1993*

Forest type group	Ownership class					
	All classes		National forest		Other public	
	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡
<i>Million pounds</i>						
Loblolly-shortleaf	104,216.1	34,108.2	17,922.4	6,344.9	4,690.9	1,938.6
Oak-pine	30,667.9	40,660.2	2,706.9	4,881.8	2,154.0	2,865.5
Oak-hickory	10,856.3	261,440.8	57.3	2,799.8	617.4	18,774.6
Bottomland hardwoods§	581.3	69,772.5	139.1	2,451.9	72.7	11,941.9
All types	146,321.7	405,981.8	20,825.7	16,478.4	7,535.0	35,520.6

*Numbers in columns and rows may not total due to rounding.

†Softwood species.

‡Hardwood species.

§Includes oak-gum-cypress and elm-ash-cottonwood types.

Table 21.—Wood and bark fresh weight of stems in live trees on timberland by forest type group and ownership class, east Oklahoma, 1993*

Forest type group	Ownership class					
	All classes		National forest		Other public	
	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡
<i>Million pounds</i>						
Loblolly-shortleaf	86,611.6	25,757.8	15,292.4	4,815.5	3,960.0	1,432.6
Oak-pine	26,012.1	30,236.0	2,331.5	3,483.1	1,861.5	2,141.5
Oak-hickory	9,174.3	194,989.6	50.7	2,023.5	536.3	13,999.8
Bottomland hardwoods§	493.4	52,069.5	117.7	1,766.1	64.6	8,886.1
All types	122,291.3	303,052.9	17,792.2	12,088.2	6,422.4	26,460.0

*Numbers in columns and rows may not total due to rounding.

†Softwood species.

‡Hardwood species.

§Includes oak-gum-cypress and elm-ash-cottonwood types.

Table 22.—Wood and bark fresh weight of crowns in live trees on timberland by forest type group and ownership class, east Oklahoma, 1993*

Forest type group	Ownership class					
	All classes		National forest		Other public	
	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡
<i>Million pounds</i>						
Loblolly-shortleaf	17,604.5	8,350.4	2,630.0	1,529.3	730.8	506.0
Oak-pine	4,655.8	10,424.3	375.4	1,398.7	292.5	724.0
Oak-hickory	1,682.1	66,451.2	6.6	776.3	81.1	4,774.8
Bottomland hardwoods§	87.9	17,703.0	21.4	685.8	8.1	3,055.8
All types	24,030.3	102,928.8	3,033.5	4,390.2	1,112.5	9,060.6

*Numbers in columns and rows may not total due to rounding.

†Softwood species.

‡Hardwood species.

§Includes oak-gum-cypress and elm-ash-cottonwood types.

Table 23.—Wood and bark dry weight of live trees on timberland by forest type group and ownership class, east Oklahoma, 1993*

Forest type group	Ownership class					
	All classes		National forest		Other public	
	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]
----- Million pounds -----						
Loblolly-shortleaf	51,658.4	19,794.3	8,783.7	3,636.9	1,144.9	24,806.0
Oak-pine	15,145.2	23,727.5	1,334.0	2,732.7	1,056.7	4,995.5
Oak-hickory	5,358.5	151,720.2	28.0	1,630.4	304.4	10,748.8
Bottomland hardwoods [§]	305.7	40,054.6	67.5	1,396.1	40.7	6,739.7
All types	72,467.9	235,296.7	10,213.2	9,396.1	3,706.7	31,194.0
					26,145.5	27,353.9
						179,247.6

*Numbers in columns and rows may not total due to rounding.

[†]Softwood species.[‡]Hardwood species.[§]Includes oak-gum-cypress and elm-ash-cottonwood types.

Table 24.—Wood and bark dry weight of stems in live trees on timberland by forest type group and ownership class, east Oklahoma, 1993*

Forest type group	Ownership class					
	All classes		National forest		Other public	
	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]
----- Million pounds -----						
Loblolly-shortleaf	43,749.4	15,699.0	7,594.4	2,905.9	871.6	20,473.4
Oak-pine	13,094.1	18,250.4	1,168.1	2,004.5	925.1	4,274.8
Oak-hickory	4,613.0	115,020.0	25.0	1,194.6	268.4	8,317.5
Bottomland hardwoods [§]	263.0	29,631.0	57.0	987.1	36.1	4,960.8
All types	61,719.6	178,600.4	8,844.6	7,092.1	3,209.9	25,937.8
					15,421.8	20,472.9
						23,727.4
						135,613.6

*Numbers in columns and rows may not total due to rounding.

[†]Softwood species.[‡]Hardwood species.[§]Includes oak-gum-cypress and elm-ash-cottonwood types.

Table 25.—Wood and bark dry weight of crowns in live trees on timberland by forest type group and ownership class, east Oklahoma, 1993*

Forest type group	Ownership class					
	All classes		National forest		Other public	
	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]
----- Million pounds -----						
Loblolly-shortleaf	7,909.0	4,095.4	1,189.2	730.9	324.8	273.3
Oak-pine	2,051.1	5,477.1	165.9	728.2	131.6	387.6
Oak-hickory	745.5	36,700.2	3.0	435.9	35.9	2,645.8
Bottomland hardwoods [§]	42.6	10,423.5	10.5	409.0	4.5	1,778.9
All types	10,748.3	56,696.2	1,368.6	2,304.0	496.9	5,085.7
					5,256.2	5,672.6
						3,626.5
						43,633.9

*Numbers in columns and rows may not total due to rounding.

[†]Softwood species.[‡]Hardwood species.[§]Includes oak-gum-cypress and elm-ash-cottonwood types.

Table 26.—Wood and bark fresh weight of live trees on timberland by species and diameter class, east Oklahoma, 1993*

Species common name [†]	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
						</							

Table 26.—Wood and bark fresh weight of live trees on timberland by species and diameter class, east Oklahoma, 1993*—Continued

Species common name [†]	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	
-----Million pounds-----													
Blackgum, black tupelo	4,279.8	487.8	522.4	360.1	516.0	435.1	368.2	443.4	572.4	167.8	265.0	141.6	0.0
Ironwood, eastern hophornbeam	1,488.9	854.2	316.1	280.8	37.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water-elm	70.5	0.0	0.0	0.0	0.0	23.9	24.3	0.0	22.2	0.0	0.0	0.0	0.0
American sycamore	4,265.2	28.6	104.5	210.2	376.2	416.5	450.2	675.8	408.4	268.5	296.2	587.0	443.2
Eastern cottonwood	5,694.4	79.3	315.6	327.2	148.1	480.6	307.7	820.3	267.8	57.4	164.8	2,406.7	318.9
Black cherry	1,182.5	184.7	213.8	159.1	101.9	103.9	190.4	94.9	118.8	15.1	0.0	0.0	0.0
Plums [‡]	281.9	243.2	0.0	0.0	0.0	38.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White oak	25,687.2	1,430.1	2,984.6	2,789.8	4,012.4	3,274.0	2,844.4	1,990.7	2,175.8	1,605.2	1,132.0	1,239.8	208.4
Southern red oak	17,614.1	337.9	751.1	1,055.9	1,772.3	2,021.4	2,823.4	1,822.7	2,063.1	1,796.8	1,388.8	1,744.7	36.1
Cherrybark oak	395.9	6.3	73.4	82.4	54.8	0.0	0.0	28.4	0.0	56.1	60.5	34.0	0.0
Bluejack oak	9.7	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Overcup oak	949.1	79.6	243.0	80.9	82.7	85.0	55.0	36.5	116.4	0.0	96.9	25.2	47.9
Bur oak	1,199.7	3.1	0.0	0.0	31.0	84.3	142.7	124.7	99.9	76.9	111.0	452.3	73.8
Blackjack oak	25,068.1	2,166.5	6,283.5	2,538.2	3,111.2	3,698.0	2,438.8	1,758.9	1,537.4	693.8	426.4	415.5	0.0
Swamp chestnut oak	55.1	24.3	0.0	9.7	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chinkapin oak	3,043.7	149.6	265.7	250.8	70.2	344.5	147.8	353.9	255.2	299.8	221.3	684.9	0.0
Water oak	9,148.5	597.2	1,252.8	871.9	823.9	489.5	616.4	473.0	630.0	405.1	609.5	1,822.7	556.7
Nuttall oak	366.3	83.0	70.5	64.9	0.0	0.0	0.0	25.0	25.0	0.0	0.0	0.0	97.9
Pin oak	3,364.6	38.0	0.0	146.3	135.6	0.0	167.7	352.4	836.1	556.3	275.3	604.4	252.4
Willow oak	1,484.7	51.5	90.0	136.9	222.5	144.7	73.5	83.9	92.8	80.5	191.2	262.3	54.9
Northern red oak	16,320.5	765.7	1,475.0	1,445.6	2,285.1	2,293.8	1,887.0	2,071.6	1,203.9	1,276.0	578.2	866.9	171.6
Shumard oak	7,393.4	27.5	82.6	91.5	296.2	105.2	561.3	656.7	553.3	785.6	502.0	1,732.7	1,998.8
Post oak	98,417.1	4,063.4	13,823.1	12,765.5	14,778.1	13,315.6	11,167.7	11,368.1	7,107.1	4,062.0	2,124.2	3,753.5	88.9
Black oak	41,888.5	1,201.0	2,417.4	3,116.3	3,965.5	4,775.5	5,042.2	5,655.1	5,014.9	3,488.5	2,586.2	3,873.8	752.2
Black locust	355.2	87.0	131.9	74.9	61.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Black willow	1,738.6	32.3	0.0	175.5	347.3	486.3	223.4	27.1	0.0	220.6	40.9	185.3	0.0
Sassafras	949.8	488.4	95.1	149.0	114.5	88.7	14.2	0.0	0.0	0.0	0.0	0.0	0.0
White basswood	127.9	16.4	0.0	0.0	34.7	0.0	54.2	0.0	22.5	0.0	0.0	0.0	0.0
Winged elm	16,993.7	2,537.1	5,048.5	3,002.8	2,134.4	1,465.2	1,260.3	787.7	275.8	204.3	196.8	80.9	0.0
American elm	4,031.8	444.5	669.8	367.2	582.1	294.6	385.9	544.1	238.3	185.1	76.9	152.3	91.0
Cedar elm	1,443.5	258.4	200.7	209.0	107.4	242.9	84.5	69.8	143.3	33.0	52.6	42.0	0.0
Siberian elm	34.9	0.0	0.0	0.0	0.0	34.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Slippery elm	971.5	144.6	115.5	146.2	197.3	97.4	160.7	0.0	0.0	54.2	17.2	38.4	0.0
September elm	154.7	11.7	47.4	0.0	10.5	37.9	0.0	47.2	0.0	0.0	0.0	0.0	0.0
Tree spangleberry	265.5	265.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other species [‡]	57.9	0.0	0.0	0.0	33.9	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All species	552,303.4	31,264.0	71,028.1	68,290.0	79,224.4	69,905.1	60,767.4	54,025.5	39,979.4	26,594.5	16,439.0	27,801.5	6,984.4

*Numbers in columns and rows may not total due to rounding.

†Alphabetized by genus; see species list, appendix 2.

‡Unidentified hickories.

§Includes cherries (except black cherry).

¶Other species include noncommercial and unidentified species.

Table 27. — Wood and bark fresh weight of stems in live trees on timberland by species and diameter class, east Oklahoma, 1993*

Species common name [†]	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	
		-----Million pounds-----												
Eastern redcedar	3,883.2	464.3	1,222.1	661.1	504.9	290.5	329.1	191.3	116.8	39.5	34.1	29.4	0.0	
Shortleaf pine	86,132.7	2,510.0	7,892.7	7,595.3	13,460.4	15,365.7	15,403.4	11,582.8	6,537.4	3,739.5	1,509.6	536.0	0.0	
Loblolly pine	32,046.9	528.2	3,450.8	7,537.2	10,861.8	4,183.7	1,494.9	1,412.7	852.7	487.5	371.1	760.6	105.6	
Baldcypress	228.6	0.0	0.0	8.6	0.0	56.2	0.0	69.2	0.0	25.4	28.1	0.0	41.0	
Florida maple	234.0	24.4	64.9	0.0	0.0	71.5	0.0	35.7	37.4	0.0	0.0	0.0	0.0	
Boxelder	1,573.6	26.3	153.6	94.1	135.1	169.3	80.0	161.0	224.3	280.9	90.2	159.0	0.0	
Red maple	2,760.0	740.5	1,228.7	284.9	178.7	60.9	21.4	115.8	53.7	13.7	61.7	0.0	0.0	
Silver maple	2,211.6	3.4	0.0	76.1	174.5	74.4	232.2	257.7	166.8	230.6	213.0	508.8	273.9	
Sugar maple	537.1	45.6	48.6	27.4	128.9	0.0	38.8	110.5	41.2	58.7	0.0	37.4	0.0	
Serviceberry	42.8	6.2	36.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
River birch	1,322.7	0.0	215.1	148.4	85.4	179.3	0.0	32.7	185.8	160.9	26.4	288.7	0.0	
Bumelia	562.7	86.7	339.3	80.2	30.8	25.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Bluebeech, American hornbeam	381.9	240.5	84.1	32.2	17.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Hickories [‡]	2,550.0	294.0	625.1	251.8	414.9	250.1	337.0	201.7	105.7	69.6	0.0	0.0	0.0	
Water hickory	543.4	87.5	90.0	61.8	27.8	30.5	39.6	47.8	38.2	0.0	54.1	66.2	0.0	
Bitternut hickory	1,752.5	114.7	250.9	186.3	140.7	233.2	164.7	142.1	108.3	241.6	62.0	108.0	0.0	
Pignut hickory	1,184.5	53.2	155.2	11.9	31.0	191.9	248.1	300.2	86.3	31.2	57.0	18.4	0.0	
Pecan	2,937.9	9.2	87.8	91.3	152.0	150.8	342.7	317.0	155.7	255.6	315.5	626.8	433.4	
Nutmeg hickory	48.4	0.0	0.0	0.0	22.3	0.0	0.0	26.1	0.0	0.0	0.0	0.0	0.0	
Shagbark hickory	1,330.2	3.9	239.2	78.4	339.4	194.5	65.4	56.7	127.3	85.4	98.1	0.0	41.9	
Black hickory	18,346.4	1,460.7	4,007.3	2,360.9	2,551.2	2,469.5	1,642.7	1,558.2	1,447.8	505.2	51.8	290.9	0.0	
Mockernut hickory	10,472.5	990.4	1,935.8	1,089.3	1,791.8	1,630.3	1,273.4	757.2	504.0	329.5	170.7	0.0	0.0	
Sugarberry	6,040.5	512.9	1,085.5	485.2	693.2	1,001.9	576.1	458.4	487.3	275.6	174.9	202.4	87.2	
Hackberry	440.9	7.1	0.0	63.1	46.4	71.7	0.0	37.3	150.8	64.5	0.0	0.0	0.0	
Eastern redbud	199.2	148.9	33.9	0.0	0.0	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Flowering dogwood	2,613.8	1,035.0	1,377.3	166.2	35.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Hawthorn	211.9	119.5	26.3	45.1	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Common persimmon	1,232.2	352.1	459.4	175.7	48.4	56.2	74.6	0.0	0.0	0.0	65.8	0.0	0.0	
White ash	4,006.9	252.7	449.0	308.1	537.9	476.9	530.5	347.7	444.5	160.9	200.1	298.6	0.0	
Green ash	6,876.1	446.2	1,024.6	678.2	1,024.4	1,221.6	722.7	480.9	446.3	458.4	143.6	207.0	22.2	
Waterlocust	171.4	29.0	48.6	48.5	0.0	0.0	7.5	0.0	37.8	0.0	0.0	0.0	0.0	
Honeylocust	1,824.0	85.9	58.5	120.0	253.1	357.2	403.4	116.6	121.4	141.4	0.0	166.7	0.0	
Kentucky coffeetree	122.6	0.0	0.0	31.7	0.0	91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
American holly	156.2	68.0	28.5	0.0	0.0	6.6	0.0	25.8	0.0	27.4	0.0	0.0	0.0	
Black walnut	1,740.1	94.5	107.6	166.8	83.9	197.2	121.4	329.8	117.4	77.0	91.9	276.7	76.0	
Sweetgum	5,036.9	501.7	952.3	605.3	609.3	338.0	651.9	429.4	464.4	232.2	41.2	126.5	89.3	
Osage-orange	2,314.0	407.9	664.5	455.3	301.9	123.5	76.3	91.9	35.8	57.7	0.0	99.1	0.0	
Chinaberry	37.0	0.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
White mulberry	61.7	0.0	0.0	0.0	25.7	35.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Red mulberry	1,046.5	179.5	318.4	157.9	110.2	110.6	42.9	88.2	0.0	18.7	20.0	0.0	0.0	

Table 27.—Wood and bark fresh weight of stems in live trees on timberland by species and diameter class, east Oklahoma, 1993*—Continued

Species common name [†]	Diameter class (Inches at breast height)												All classes	≥29.0
	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			
	-----Million pounds-----													
Blackgum, black tupelo	2,867.4	274.2	332.7	183.0	340.5	319.6	270.7	320.7	425.8	124.8	196.4	79.1	0.0	
Ironwood, eastern hophornbeam	1,127.9	682.1	253.8	163.3	28.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Water-elm	58.5	0.0	0.0	0.0	0.0	20.0	20.4	0.0	18.1	0.0	0.0	0.0	0.0	
American sycamore	3,558.1	24.7	90.7	141.9	295.0	334.2	366.5	555.7	341.3	228.5	254.6	515.3	409.7	
Eastern cottonwood	4,476.0	68.7	274.1	206.1	118.8	404.8	260.3	681.9	218.9	46.4	129.9	1,839.0	227.3	
Black cherry	868.8	147.6	171.7	93.7	75.3	78.4	138.8	70.9	85.0	7.5	0.0	0.0	0.0	
Plums [‡]	223.9	193.9	0.0	0.0	0.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
White oak	18,424.2	1,208.8	2,454.0	1,668.6	2,899.9	2,499.7	2,150.3	1,440.2	1,513.0	1,040.3	715.2	716.1	118.1	
Southern red oak	13,105.5	307.4	669.0	678.2	1,384.2	1,680.9	2,309.9	1,392.8	1,479.3	1,225.7	909.7	1,049.1	19.4	
Cherrybark oak	271.3	5.7	65.3	47.4	40.9	0.0	0.0	21.5	0.0	30.4	39.6	20.4	0.0	
Bluejack oak	8.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Overcup oak	701.9	67.0	200.2	53.0	60.9	65.6	41.8	26.8	82.3	0.0	64.6	16.3	23.4	
Bur oak	811.3	2.7	0.0	0.0	22.1	65.0	108.0	91.5	70.8	51.8	73.1	283.8	42.4	
Blackjack oak	20,646.1	1,830.7	5,165.0	1,794.1	2,617.1	3,219.0	2,111.4	1,472.0	1,249.0	547.9	330.2	309.7	0.0	
Swamp chestnut oak	43.0	20.2	0.0	5.8	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Chinkapin oak	2,115.4	126.4	217.9	144.7	52.2	264.4	113.4	258.4	177.1	200.3	139.8	420.8	0.0	
Water oak	6,706.9	487.0	1,024.3	564.3	636.0	389.6	489.9	364.8	468.5	293.3	434.2	1,214.3	340.7	
Nuttall oak	271.4	67.8	57.6	45.1	0.0	0.0	0.0	19.5	18.6	0.0	0.0	0.0	62.8	
Pin oak	2,431.2	31.0	0.0	99.9	103.9	0.0	134.4	271.9	621.7	405.3	196.0	405.2	161.9	
Willow oak	1,087.0	42.0	73.6	93.7	169.5	116.6	58.1	64.7	66.2	56.9	136.3	174.4	35.0	
Northern red oak	12,846.9	703.7	1,303.8	1,011.3	1,804.9	1,848.2	1,506.0	1,625.3	926.5	949.4	429.9	618.0	119.8	
Shumard oak	5,435.9	23.3	67.9	59.6	231.4	83.4	450.0	505.4	416.3	595.3	371.5	1,255.3	1,376.5	
Post oak	68,228.9	3,126.2	10,530.5	7,230.1	10,283.6	9,724.9	8,114.0	7,996.4	4,888.6	2,677.5	1,335.4	2,265.6	56.0	
Black oak	31,907.8	1,104.9	2,187.6	2,008.6	3,208.1	4,041.1	4,179.0	4,423.2	3,723.8	2,452.6	1,745.8	2,413.5	419.7	
Black locust	265.0	69.5	106.0	46.0	43.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Black willow	1,388.9	27.9	0.0	115.3	275.4	410.8	189.5	22.6	0.0	176.5	32.3	138.6	0.0	
Sassafras	776.5	422.0	82.5	93.1	91.7	75.6	11.6	0.0	0.0	0.0	0.0	0.0	0.0	
White basswood	86.5	14.3	0.0	0.0	10.8	0.0	43.6	0.0	17.9	0.0	0.0	0.0	0.0	
Winged elm	13,772.9	2,192.3	4,382.9	1,949.9	1,692.1	1,229.3	1,067.3	654.7	224.9	162.5	154.6	62.4	0.0	
American elm	3,236.1	384.4	581.6	238.7	458.5	249.3	325.5	449.4	194.2	146.3	53.9	116.5	37.9	
Cedar elm	1,165.6	223.3	174.1	133.2	85.0	205.2	71.7	58.2	114.9	26.2	41.2	32.5	0.0	
Siberian elm	29.6	0.0	0.0	0.0	0.0	29.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Slippery elm	777.2	124.9	100.2	91.2	158.7	82.5	136.1	0.0	0.0	43.6	13.5	26.5	0.0	
September elm	129.4	10.1	41.1	0.0	6.9	32.2	0.0	39.2	0.0	0.0	0.0	0.0	0.0	
Tree sparkleberry	229.2	229.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other species [‡]	47.5	0.0	0.0	0.0	27.6	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
All species	425,344.3	26,183.7	59,407.5	43,144.0	62,079.6	57,260.2	49,588.6	42,605.6	30,437.8	19,557.9	11,678.5	18,779.7	4,621.2	

*Numbers in columns and rows may not total due to rounding.

†Alphabetized by genus; see species list, appendix 2.

‡Unidentified hickories.

§Includes cherries (except black cherry).

¶Other species include noncommercial and unidentified species.

Table 28.—Wood and bark fresh weight of crowns in live trees on timberland by species and diameter class, east Oklahoma, 1993*

Species common name [†]	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		
														Million pounds	
Eastern redcedar	740.5	55.9	130.0	318.6	88.1	37.9	43.0	28.4	18.8	7.2	6.6	6.0	0.0		
Shortleaf pine	14,824.5	298.1	825.0	3,784.4	2,230.8	1,886.3	2,025.0	1,684.7	1,047.9	649.7	282.6	109.9	0.0		
Loblolly pine	8,435.2	59.7	411.8	3,987.3	2,383.0	675.0	232.2	225.9	142.0	84.7	66.7	144.5	22.5		
Baldcypress	30.2	0.0	0.0	2.6	0.0	4.6	0.0	6.5	0.0	3.0	3.8	0.0	9.6		
Florida maple	72.6	4.1	13.1	0.0	0.0	27.9	0.0	15.2	12.2	0.0	0.0	0.0	0.0		
Boxelder	510.9	4.8	30.5	47.8	50.7	55.6	26.2	53.8	74.2	96.4	26.0	45.0	0.0		
Red maple	728.7	129.0	244.4	160.3	67.2	27.8	10.2	44.3	20.7	6.4	18.1	0.0	0.0		
Silver maple	731.4	0.5	0.0	40.6	65.3	26.2	84.4	87.1	53.1	75.7	67.0	153.1	78.3		
Sugar maple	195.2	11.6	12.0	13.7	41.9	0.0	10.4	42.8	16.2	24.8	0.0	21.9	0.0		
Serviceberry	12.9	1.6	11.3	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
River birch	582.9	0.0	52.4	95.3	40.4	72.6	0.0	12.8	76.4	81.5	14.8	136.7	0.0		
Bumelia	123.2	13.6	51.5	44.8	8.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Bluebeech, American hornbeam	103.9	46.8	17.6	20.2	5.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Hickories [‡]	735.1	44.3	104.7	190.7	127.0	62.2	83.6	57.1	39.3	26.2	0.0	0.0	0.0		
Water hickory	189.1	13.4	15.4	38.9	8.6	7.7	9.5	13.2	12.1	0.0	33.7	36.5	0.0		
Bitternut hickory	596.2	15.4	58.5	105.9	44.3	59.3	41.7	38.5	37.7	88.8	29.2	76.9	0.0		
Pignut hickory	331.2	9.2	26.7	11.2	8.5	54.6	68.1	77.3	30.8	8.0	23.6	13.2	0.0		
Pecan	1,237.6	1.3	14.2	79.9	44.8	35.1	84.9	94.1	52.1	99.9	133.5	316.1	281.6		
Nutmeg hickory	10.3	0.0	0.0	0.0	5.2	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0		
Shagbark hickory	437.0	0.9	34.6	36.5	116.1	64.3	20.2	17.0	47.6	31.3	46.8	0.0	21.8		
Black hickory	5,633.5	279.0	726.9	1,487.0	810.3	597.2	432.0	472.7	489.8	166.1	21.7	150.8	0.0		
Mockernut hickory	3,166.3	176.6	383.0	674.0	538.5	420.9	337.4	244.4	179.8	135.2	76.3	0.0	0.0		
Sugarberry	2,195.5	128.9	265.0	335.6	247.2	286.2	161.4	164.6	197.8	128.4	98.0	119.7	62.7		
Hackberry	181.4	1.8	0.0	44.4	18.6	20.7	0.0	12.3	56.7	26.9	0.0	0.0	0.0		
Eastern redbud	31.9	23.5	5.2	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Flowering dogwood	717.3	260.8	337.4	104.1	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Hawthorn	68.0	30.3	6.4	23.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Common persimmon	403.3	88.9	112.1	112.9	18.0	16.4	22.5	0.0	0.0	0.0	0.0	0.0	0.0		
White ash	1,240.6	63.6	110.4	148.6	183.3	139.7	158.5	99.6	128.1	62.8	55.5	90.4	0.0		
Green ash	2,172.9	111.9	250.1	343.3	345.7	375.0	215.6	143.9	131.1	131.1	44.7	69.0	11.3		
Waterlocust	65.9	7.2	11.9	28.9	0.0	0.0	3.1	0.0	14.8	0.0	0.0	0.0	0.0		
Honeylocust	685.3	21.5	14.3	90.7	88.0	99.5	116.4	39.0	49.0	59.7	0.0	107.3	0.0		
Kentucky coffeetree	29.2	0.0	0.0	11.8	0.0	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
American holly	29.5	10.7	4.4	0.0	0.0	2.5	0.0	5.2	0.0	6.7	0.0	0.0	0.0		
Black walnut	743.2	23.6	26.1	109.7	32.8	55.6	39.0	118.0	48.4	33.9	43.5	148.5	64.2		
Sweetgum	1,112.1	66.3	111.3	272.9	127.6	48.5	95.5	78.6	113.7	70.9	12.1	45.4	69.2		
Osage-orange	923.7	102.1	162.9	356.1	111.4	34.6	25.6	35.0	13.6	25.9	0.0	56.5	0.0		
Chinaberry	5.7	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
White mulberry	12.7	0.0	0.0	0.0	5.7	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Red mulberry	246.7	28.1	48.1	75.6	33.3	21.0	8.2	18.8	0.0	5.8	7.7	0.0	0.0		

Table 28.—Wood and bark fresh weight of crowns in live trees on timberland by species and diameter class, east Oklahoma, 1993* —Continued

Species common name [†]	Diameter class (Inches at breast height)														21.0–28.9	≥29.0
	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					
----- Million pounds -----																
Blackgum, black tupelo	1,412.4	213.6	189.7	177.1	175.5	115.6	97.5	122.8	146.6	43.0	68.6	62.5	0.0			
Ironwood, eastern hophornbeam	361.0	172.1	62.3	117.5	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Water-elm	11.9	0.0	0.0	0.0	0.0	4.0	3.9	0.0	4.1	0.0	0.0	0.0	0.0			
American sycamore	707.1	3.9	13.8	68.3	81.2	82.2	83.7	120.2	67.0	40.0	41.6	71.7	33.5			
Eastern cottonwood	1,218.3	10.7	41.6	121.2	29.3	75.8	47.4	138.4	48.9	11.0	34.8	567.7	91.6			
Black cherry	313.7	37.0	42.1	65.3	26.6	25.5	51.6	24.0	33.9	7.6	0.0	0.0	0.0			
Plums [§]	57.9	49.2	0.0	0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
White oak	7,263.0	221.3	530.6	1,121.2	1,112.6	774.3	694.1	550.6	662.8	564.8	416.8	523.7	90.3			
Southern red oak	4,508.6	30.5	82.1	377.7	388.1	340.5	513.5	429.9	583.8	571.1	479.0	695.6	16.8			
Cherrybark oak	124.6	0.5	8.1	34.9	13.9	0.0	0.0	6.8	0.0	25.7	20.9	13.6	0.0			
Bluejack oak	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Overcup oak	247.3	12.6	42.8	27.9	21.8	19.4	13.2	9.7	34.2	0.0	32.3	8.9	24.4			
Bur oak	388.4	0.4	0.0	0.0	8.9	19.3	34.7	33.2	29.1	25.1	37.9	168.5	31.3			
Blackjack oak	4,422.0	335.7	1,118.4	744.1	494.1	479.1	327.4	286.9	288.4	145.9	96.2	105.9	0.0			
Swamp chestnut oak	12.1	4.0	0.0	3.9	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Chinkapin oak	928.3	23.1	47.7	106.2	18.0	80.1	34.5	95.5	78.1	99.5	81.4	264.1	0.0			
Water oak	2,441.6	110.2	228.4	307.6	187.8	99.9	126.5	108.2	161.5	111.7	175.3	608.4	216.0			
Nuttall oak	94.9	15.3	12.9	19.8	0.0	0.0	0.0	5.5	6.3	0.0	0.0	0.0	35.1			
Pin oak	933.4	7.0	0.0	46.4	31.7	0.0	33.3	80.5	214.5	151.0	79.3	199.1	90.5			
Willow oak	397.7	9.5	16.4	43.2	53.0	28.1	15.4	19.2	26.6	23.6	54.9	87.9	19.9			
Northern red oak	3,473.6	62.1	171.2	434.3	480.2	445.6	381.0	446.3	277.4	326.6	148.3	248.9	51.8			
Shumard oak	1,957.5	4.2	14.7	31.9	64.8	21.8	111.3	151.2	137.0	190.3	130.5	477.5	622.3			
Post oak	30,188.2	937.2	3,292.6	5,535.4	4,494.4	3,590.6	3,053.7	3,371.7	2,218.4	1,384.5	788.8	1,487.9	32.9			
Black oak	9,980.7	96.1	229.8	1,107.7	757.4	734.4	863.2	1,232.0	1,291.1	1,035.8	840.4	1,460.3	332.4			
Black locust	90.2	17.5	25.9	28.8	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Black willow	349.7	4.4	0.0	60.1	72.0	75.4	33.9	4.5	0.0	44.1	8.6	46.7	0.0			
Sassafras	173.4	66.4	12.6	55.9	22.8	13.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0			
White basswood	41.4	2.2	0.0	0.0	23.9	0.0	10.6	0.0	4.7	0.0	0.0	0.0	0.0			
Winged elm	3,220.9	344.8	665.6	1,052.9	442.3	235.9	193.0	133.0	50.9	41.8	42.2	18.5	0.0			
American elm	795.6	60.1	88.2	128.5	123.6	45.3	60.4	94.7	44.2	38.8	23.0	35.8	53.1			
Cedar elm	277.9	35.1	26.5	75.7	22.3	37.7	12.8	11.5	28.4	6.8	11.4	9.5	0.0			
Siberian elm	5.3	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Slippery elm	194.3	19.7	15.3	54.9	38.6	14.9	24.6	0.0	0.0	10.6	3.7	11.9	0.0			
September elm	25.3	1.6	6.3	0.0	3.6	5.7	0.0	8.1	0.0	0.0	0.0	0.0	0.0			
Tree sparkleberry	36.3	36.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Other species [‡]	10.4	0.0	0.0	0.0	6.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
All species	126,959.2	5,080.3	11,620.6	25,146.0	17,144.8	12,644.9	11,178.8	11,419.9	9,541.6	7,036.6	4,760.6	9,021.8	2,363.2			

*Numbers in columns and rows may not total due to rounding.

†Alphabetized by genus; see species list, appendix 2.

‡Unidentified hickories.

§Includes cherries (except black cherry).

‡Other species include noncommercial and unidentified species.

Table 29. —Wood and bark dry weight of live trees on timberland by species and diameter class, east Oklahoma, 1993

Species common name [†]	Diameter class (inches at breast height)									
	All	1.0-	3.0-	5.0-	7.0-	9.0-	11.0-	13.0-	15.0-	17.0-
----- Million pounds -----										
Eastern redcedar	2,334.7	280.5	695.5	491.2	292.0	160.0	181.2	107.2	66.5	22.9
Shortleaf pine	49,598.2	1,505.6	4,456.5	5,669.9	7,658.2	8,357.8	6,457.8	3,698.2	2,143.4	877.0
Loblolly pine	20,390.2	307.1	1,976.1	5,852.0	6,671.9	2,430.8	858.0	488.8	280.3	214.1
Baldcypress	144.8	0.0	0.0	6.3	0.0	34.0	0.0	42.3	15.9	17.8
Boxelder	1,179.7	16.2	44.2	0.0	0.0	55.3	28.6	28.4	0.0	0.0
Florida maple	172.7	17.6	104.3	77.5	102.3	125.0	59.4	121.2	216.2	67.0
Red maple	1,963.7	493.4	834.9	243.2	135.2	49.1	17.7	42.4	11.5	46.2
Silver maple	1,692.2	2.3	0.0	63.8	132.7	56.0	177.9	195.3	176.3	162.1
Sugar maple	427.1	32.1	34.7	100.4	24.0	0.0	29.2	90.3	48.8	34.0
Serviceberry	34.2	4.4	29.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
River birch	1,125.4	0.0	154.8	145.1	74.8	149.6	27.0	155.3	143.4	24.4
Bumelia	368.4	55.3	209.7	66.7	20.5	16.2	0.0	0.0	0.0	0.0
Bluebeech, American hornbeam	269.5	164.7	57.4	26.6	10.7	10.1	0.0	0.0	0.0	0.0
Hickories [‡]	2,062.7	206.7	453.7	277.6	343.3	198.8	267.4	163.9	91.4	59.9
Water hickory	458.4	61.8	65.7	63.4	23.1	24.4	31.4	38.8	31.8	54.7
Bitternut hickory	1,389.6	75.7	180.8	172.1	104.5	183.2	119.7	102.6	200.5	53.1
Pignut hickory	859.5	37.3	99.9	13.4	22.6	139.3	181.4	213.6	69.6	44.9
Pecan	2,604.4	6.4	63.0	107.5	124.6	118.5	272.6	259.9	130.9	222.3
Nutmeg hickory	30.5	0.0	0.0	14.5	0.0	0.0	16.1	0.0	0.0	0.0
Shagbark hickory	1,071.4	2.6	145.1	63.6	279.4	176.5	53.1	48.3	79.1	86.3
Black hickory	13,617.6	1,015.8	2,726.2	2,165.1	1,908.2	1,705.5	1,137.0	1,093.1	365.0	42.4
Mockernut hickory	7,770.4	678.4	1,366.8	1,000.9	1,295.3	1,143.1	907.3	574.6	269.1	138.8
Sugarberry	4,805.1	362.7	780.2	476.2	552.6	762.4	437.0	367.2	235.6	158.6
Hackberry	364.8	4.9	0.0	62.4	38.0	54.7	29.3	121.9	53.5	0.0
Eastern redbud	126.7	95.2	21.2	0.0	0.0	10.3	0.0	0.0	0.0	0.0
Flowering dogwood	1,904.8	730.8	987.9	156.7	29.4	0.0	0.0	0.0	0.0	0.0
Hawthorn	159.7	18.9	39.7	17.0	0.0	0.0	0.0	0.0	0.0	0.0
Common persimmon	942.9	248.4	330.3	167.8	38.9	42.9	57.5	0.0	0.0	57.2
White ash	3,738.0	178.6	321.5	335.8	534.2	458.4	513.6	422.8	169.2	187.1
Green ash	6,403.0	315.9	736.4	751.9	1,015.3	1,189.9	699.1	464.7	433.8	139.2
Waterlocust	137.5	20.7	34.8	45.0	0.0	0.0	6.3	30.7	0.0	0.0
Honeylocust	1,469.6	60.9	41.9	22.3	200.4	270.1	307.7	91.5	117.1	0.0
Kentucky coffee-tree	79.4	0.0	0.0	22.9	0.0	56.5	0.0	0.0	0.0	0.0
American holly	99.3	43.5	17.8	0.0	4.8	0.0	15.9	17.3	65.0	17.3
Black walnut	1,447.7	67.0	77.6	160.9	68.4	149.5	264.1	97.1	145.6	25.6
Osage-orange	1,872.2	289.0	476.5	470.1	242.2	93.5	59.9	74.5	48.4	89.1
Chinaberry	23.1	0.0	23.1	0.0	16.5	22.5	0.0	0.0	0.0	0.0
White mulberry	38.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Red mulberry	687.2	114.2	196.3	124.0	75.7	68.9	26.6	55.0	12.4	14.0

21.0-

28.9

≥29.0

Table 29.—Wood and bark dry weight of live trees on timberland by species and diameter class, east Oklahoma, 1993^a—Continued

Species common name [†]	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	
	Million pounds												
Blackgum, black tupelo	2,216.1	234.0	259.0	180.9	263.6	225.2	193.1	236.1	308.5	91.2	146.0	78.7	0.0
Ironwood, eastern hophornbeam	848.1	481.3	181.8	162.8	22.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water-elm	36.6	0.0	0.0	0.0	0.0	12.6	12.6	0.0	11.4	0.0	0.0	0.0	0.0
American sycamore	1,944.5	15.7	56.2	95.5	170.6	188.7	203.9	306.0	184.9	121.6	134.1	266.0	201.1
Eastern cottonwood	2,880.7	43.3	169.4	173.7	77.6	249.8	158.2	418.7	135.4	29.0	82.2	1,188.3	155.0
Black cherry	688.6	104.5	123.2	92.3	59.8	61.6	113.0	55.8	69.6	8.8	0.0	0.0	0.0
Plums [‡]	159.2	136.3	0.0	0.0	0.0	22.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White oak	15,348.3	862.5	1,796.5	1,666.3	2,404.3	1,966.0	1,705.2	1,187.7	1,292.2	950.3	667.6	729.0	120.6
Southern red oak	7,797.2	204.1	452.6	306.5	634.3	874.9	1,296.9	832.0	933.6	818.7	631.6	795.5	16.4
Cherrybark oak	175.2	3.8	44.2	23.7	18.0	0.0	0.0	14.5	0.0	25.9	29.0	16.1	0.0
Bluejack oak	5.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Overcup oak	566.9	48.0	146.3	48.4	49.6	51.0	33.0	21.8	69.1	0.0	57.2	14.8	27.8
Bur oak	708.6	1.9	0.0	0.0	18.6	50.6	85.4	74.4	59.3	45.4	65.3	264.9	42.7
Blackjack oak	15,240.6	1,306.5	3,782.0	1,572.4	1,912.0	2,258.9	1,484.8	1,067.0	930.5	419.2	257.3	250.0	0.0
Swamp chestnut oak	33.7	14.6	0.0	6.1	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chinkapin oak	1,808.1	90.2	159.9	149.8	42.1	206.8	88.6	210.9	151.4	177.2	130.5	400.7	0.0
Water oak	5,098.8	330.4	711.4	498.6	476.8	284.9	357.0	269.3	353.0	224.3	333.7	971.6	287.9
Nuttall oak	202.7	46.4	39.8	37.2	0.0	0.0	0.0	14.4	14.0	0.0	0.0	50.9	0.0
Pin oak	1,865.5	21.2	0.0	83.9	78.2	0.0	97.3	200.8	469.8	307.7	150.6	324.8	131.2
Willow oak	833.8	28.6	51.2	78.7	128.7	84.6	42.4	47.9	52.5	44.9	104.7	141.2	28.5
Northern red oak	9,309.5	453.0	854.8	832.1	1,305.8	1,301.7	1,067.3	1,172.7	682.1	723.4	327.6	491.8	97.0
Shumard oak	4,189.5	16.6	49.7	52.8	169.2	59.8	317.3	371.6	313.4	444.1	284.0	980.3	1,130.7
Post oak	60,709.8	2,554.6	8,596.7	7,918.2	9,102.6	8,162.5	6,839.0	6,977.8	4,368.4	2,501.6	1,311.2	2,322.0	55.0
Black oak	23,891.7	699.0	1,405.6	1,811.3	2,303.8	2,773.3	2,910.0	3,226.4	2,835.7	1,956.1	1,438.3	2,129.0	403.2
Black locust	216.8	49.1	76.1	50.3	41.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Black willow	901.2	17.7	0.0	93.0	182.5	253.4	115.7	14.0	0.0	111.7	20.7	92.5	0.0
Sassafras	513.3	269.3	51.4	79.1	60.1	51.460	7.4	0.0	0.0	0.0	0.0	0.0	0.0
White basswood	59.9	8.1	0.0	0.0	15.4	0.0	25.4	0.0	11.1	0.0	0.0	0.0	0.0
Winged elm	9,043.0	1,399.1	2,712.4	1,599.3	1,124.5	765.0	652.9	405.1	140.7	103.8	99.3	40.7	0.0
American elm	2,111.7	244.1	359.4	195.2	306.4	153.5	199.6	278.9	121.5	93.7	38.6	76.0	44.8
Cedar elm	762.4	142.4	108.1	111.5	56.5	126.8	44.0	35.9	73.2	16.7	26.3	21.0	0.0
Siberian elm	18.2	0.0	0.0	0.0	0.0	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Slippery elm	513.0	79.9	62.4	77.8	103.5	50.8	83.1	0.0	0.0	27.4	8.6	19.3	0.0
September elm	81.7	6.5	25.6	0.0	5.6	19.8	0.0	24.2	0.0	0.0	0.0	0.0	0.0
Tree spangleberry	147.2	147.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other species [§]	30.4	0.0	0.0	0.0	17.8	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All species	307,764.5	17,914.9	40,545.2	37,882.2	43,659.7	38,785.0	33,512.9	29,922.6	22,304.5	14,815.1	9,133.3	15,455.9	3,833.2

^aNumbers in columns and rows may not total due to rounding.

[†]Alphabetized by genus; see species list, appendix 2.

[‡]Unidentified hickories.

[§]Includes cherries (except black cherry).

[¶]Other species include noncommercial and unidentified species.

Table 30.—Wood and bark dry weight of stems in live trees on timberland by species and diameter class, east Oklahoma, 1993^a

Species common name [†]	Diameter class (inches at breast height)									
	All	1.0-	2.9	3.0-	5.0-	7.0-	8.9	10.9	12.9	14.9
Eastern redcedar	2,026.5	263.7	653.8	348.2	253.3	142.9	161.6	94.1	57.8	16.9
Shortleaf pine	43,068.5	1,415.3	4,189.1	3,980.2	6,685.2	7,518.5	5,681.8	3,212.2	1,840.6	744.8
Loblolly pine	16,496.7	288.7	1,857.6	3,984.2	5,556.1	2,108.5	745.2	697.9	419.0	181.2
Baldypress	127.9	0.0	0.0	4.8	0.0	31.5	38.7	0.0	14.2	15.7
Florida maple	137.3	14.9	40.7	0.0	40.0	0.0	20.2	21.5	0.0	0.0
Borxider	902.8	16.2	51.3	74.6	94.7	128.0	91.2	52.0	161.2	7.8
Red maple	1,661.4	453.9	768.1	155.4	98.4	33.9	12.1	65.5	30.6	133.2
Silver maple	1,274.6	2.1	0.0	41.6	97.0	41.7	131.6	146.9	95.8	123.5
Sugar maple	318.2	29.5	31.9	15.9	75.4	0.0	22.9	64.3	23.7	33.7
Serviceberry	31.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
River birch	793.6	0.0	142.4	88.1	50.7	106.4	19.3	109.3	94.4	15.4
Bumelia	316.5	50.8	192.9	43.0	16.2	13.5	0.0	0.0	0.0	0.0
Bluebeech, American hornbeam	236.8	151.5	52.8	16.0	8.3	8.2	0.0	0.0	0.0	0.0
Hickories [‡]	1,641.4	190.2	417.4	158.0	263.7	159.8	214.6	127.8	66.5	43.4
Water hickory	347.3	56.9	60.5	38.9	17.7	19.5	25.4	30.4	24.1	0.0
Bitternut hickory	1,039.2	69.6	166.3	109.0	79.0	142.9	90.6	79.6	64.4	141.7
Pignut hickory	676.6	34.3	91.9	6.8	17.6	109.0	141.6	168.3	50.7	15.7
Pecan	1,832.2	5.8	58.0	57.3	96.5	219.0	200.4	97.9	159.3	195.6
Nutmeg hickory	25.2	0.0	0.0	0.0	11.7	0.0	13.5	0.0	0.0	0.0
Shagbark hickory	790.0	2.4	133.5	43.4	203.6	124.7	39.4	74.0	54.5	57.5
Black hickory	10,654.1	934.5	2,508.1	1,338.5	1,440.8	1,362.3	944.6	859.8	803.6	268.1
Mockernut hickory	6,108.8	624.1	1,257.5	628.4	989.7	901.1	709.7	428.5	288.8	187.9
Sugarberry	3,631.6	333.7	717.8	280.5	405.2	589.7	338.9	266.6	281.1	157.6
Hackberry	256.3	4.5	0.0	36.5	27.0	42.2	21.8	87.2	37.1	0.0
Eastern redbud	115.7	87.6	19.5	0.0	0.0	8.6	0.0	0.0	0.0	0.0
Flowering dogwood	1,977.7	672.3	908.9	96.0	20.5	0.0	0.0	0.0	0.0	0.0
Hawthorn	133.1	77.3	17.4	26.2	12.1	0.0	0.0	0.0	0.0	0.0
Common persimmon	776.4	228.5	303.9	101.7	28.2	33.0	43.7	37.3	0.0	0.0
White ash	2,660.7	164.3	295.7	204.9	359.1	319.3	355.2	231.7	295.4	106.5
Green ash	4,573.4	290.6	677.5	451.3	684.5	819.0	483.8	320.7	296.5	303.8
Waterlocust	105.3	19.0	32.0	28.1	0.0	0.0	4.4	21.7	0.0	0.0
Honeylocust	1,070.8	56.0	38.6	69.4	148.0	210.1	236.9	67.8	70.1	80.9
Kennucky coffeetree	64.3	0.0	0.0	16.7	0.0	47.5	0.0	0.0	0.0	0.0
American holly	87.0	40.0	16.4	0.0	0.0	3.5	0.0	13.3	0.0	13.9
Black walnut	1,018.8	61.6	71.4	96.7	48.9	116.0	71.5	67.6	221.2	110.1
Sweetgum	2,421.5	247.8	465.2	287.8	290.9	162.2	312.8	192.0	203.1	19.5
Osage-orange	1,422.3	265.9	438.4	262.8	176.1	72.6	44.5	53.3	20.6	32.8
Chinaberry	21.2	0.0	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White mulberry	32.3	0.0	0.0	0.0	13.5	18.8	0.0	0.0	0.0	0.0
Red mulberry	573.4	105.1	180.6	84.2	58.3	58.0	22.4	45.3	0.0	9.5

—Million pounds—

≥29.0

21.0-

19.0-

17.0-

15.0-

13.0-

11.0-

9.0-

7.0-

6.9

5.0-

4.9

3.0-

2.9

classes

Table 30.—Wood and bark dry weight of stems in live trees on timberland by species and diameter class, east Oklahoma, 1993.—Continued

Species common name [†]	Diameter class (inches at breast height)	—Million pounds—													
		All classes	1.0–	3.0–	5.0–	7.0–	9.0–	11.0–	12.9	13.0–	14.9	15.0–	16.9	17.0–	18.9
Blackgum, black tupelo		1,655.9	215.3	238.3	92.8	175.0	166.3	142.9	172.0	231.3	68.4	109.2	44.6	0.0	0.0
Ironwood, eastern hophornbeam		721.1	442.8	167.3	94.3	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water-elm		30.4	0.0	0.0	0.0	0.0	10.5	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
American sycamore		1,606.8	14.4	51.7	64.0	132.2	149.4	152.4	113.9	102.2	152.4	113.9	64.7	230.8	184.2
Eastern cottonwood		2,274.6	39.9	155.9	110.0	62.4	211.0	134.1	348.3	110.7	23.4	64.7	904.6	109.7	109.7
Black cherry		529.7	96.1	113.3	54.2	44.0	46.2	41.2	48.9	4.2	0.0	0.0	0.0	0.0	0.0
Plums [§]		143.0	125.4	0.0	0.0	0.0	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White oak		11,189.6	793.5	1,652.8	996.8	1,733.3	1,496.2	1,281.8	851.3	887.1	605.8	413.7	411.1	66.4	8.3
Southern red oak		5,749.8	187.7	416.4	195.7	491.9	721.9	1,049.0	624.2	653.3	542.2	400.1	459.0	66.4	8.3
Cherrybark oak		122.9	3.5	40.7	13.6	13.3	0.0	0.0	10.8	0.0	13.4	18.3	9.3	0.0	0.0
Bluejack oak		5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Overcup oak		435.0	44.2	134.6	31.6	36.4	39.3	24.9	15.8	48.2	0.0	0.0	37.4	9.4	13.1
Bur oak		472.5	1.7	0.0	0.0	13.2	38.9	64.3	54.1	41.5	30.1	42.2	162.6	23.9	0.0
Blackjack oak		13,013.9	1,202.0	3,479.5	1,113.3	1,611.0	1,969.6	1,286.2	890.5	752.0	328.5	197.4	184.0	0.0	0.0
Swamp chestnut oak		27.6	13.5	3.6	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chinkapin oak		1,267.9	83.0	86.4	31.2	158.2	67.7	152.6	103.8	116.5	80.9	240.6	0.0	0.0	0.0
Water oak		3,773.9	304.0	654.5	318.8	224.9	280.4	203.7	255.7	157.3	229.2	615.9	165.0	30.8	79.3
Nuttall oak		156.8	42.6	36.6	25.5	0.0	0.0	11.0	10.2	0.0	0.0	0.0	0.0	0.0	0.0
Pin oak		1,312.4	19.5	56.7	59.3	0.0	77.2	152.0	340.2	217.1	103.3	207.8	79.3	30.8	79.3
Willow oak		606.3	26.3	47.1	53.3	97.1	67.6	33.1	36.2	36.4	72.0	89.6	17.1	66.1	17.1
Northern red oak		7,269.7	416.8	786.4	572.7	1,019.2	1,036.1	840.0	906.2	516.4	238.9	342.9	66.1	66.1	17.1
Shumard oak		3,025.2	15.3	45.7	130.5	46.8	250.9	231.6	206.1	694.7	758.3	34.2	758.3	34.2	758.3
Post oak		43,781.6	2,350.3	7,909.0	4,605.0	6,330.2	5,934.2	4,938.9	4,871.4	1,632.2	814.7	1,382.8	34.2	34.2	758.3
Black oak		18,009.3	643.1	1,293.1	1,157.8	1,858.2	2,341.9	2,397.6	2,489.4	1,339.1	940.2	1,272.7	212.5	212.5	758.3
Black locust		176.1	45.2	70.0	31.4	29.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Black willow		721.8	16.3	61.4	145.0	214.6	98.3	11.7	89.2	16.3	68.9	0.0	0.0	0.0	0.0
Sassafras		438.4	47.3	49.7	48.2	39.3	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White basswood		48.7	7.5	0.0	11.7	20.6	8.9	0.0	0.0	8.9	0.0	0.0	0.0	0.0	0.0
Winged elm		7,559.6	1,287.2	2,495.4	1,043.3	893.3	643.4	554.0	336.9	114.7	82.4	77.8	31.3	18.4	0.0
American elm		1,730.0	224.6	330.7	127.5	241.8	168.6	230.5	98.9	58.6	13.2	20.6	16.2	18.4	0.0
Cedar elm		630.1	131.0	99.5	71.4	44.8	107.3	37.4	30.0	58.6	13.2	20.6	16.2	18.4	0.0
Siberian elm		15.4	0.0	0.0	0.0	0.0	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Slippery elm		418.9	73.5	57.4	48.8	83.5	43.1	70.5	20.1	0.0	0.0	6.8	13.3	0.0	0.0
September elm		70.1	6.0	23.5	0.0	3.7	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tree spangleberry		135.4	135.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other species [§]		25.0	0.0	0.0	0.0	14.5	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All species		240,320.0	16,523.6	37,444.1	24,265.3	34,053.9	31,453.3	27,033.9	23,268.2	16,681.9	10,660.4	6,335.9	10,145.9	2,453.6	2,453.6

[†]Numbers in columns and rows may not total due to rounding.

[‡]Alphabetized by genus; see species list, appendix 2.

[§]Unidentified hickories.

[§]Includes cherries (except black cherry).

[¶]Other species include noncommercial and unidentified species.

Table 31.—Wood and bark dry weight of crowns in live trees on timberland by species and diameter class, east Oklahoma, 1993^a

Species common name [†]	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
		Million pounds											
Eastern redcedar	308.2	16.8	41.7	143.0	38.8	17.1	19.6	13.1	8.8	3.4	3.1	2.8	0.0
Shorleaf pine	6,529.7	90.3	267.4	1,689.7	973.0	839.4	921.3	776.0	486.0	302.8	132.3	51.5	0.0
Loblolly pine	3,893.5	18.4	118.6	1,867.8	1,115.7	322.2	112.8	110.7	69.9	41.8	32.9	71.4	11.1
Baldcypress	16.9	0.0	0.0	1.5	0.0	2.6	0.0	3.6	0.0	1.7	2.1	0.0	5.4
Florida maple	35.3	1.3	3.5	0.0	0.0	15.2	0.0	8.4	6.9	0.0	0.0	0.0	0.0
Boxelder	276.9	1.4	8.3	26.2	27.8	30.3	14.4	30.0	41.8	55.0	15.0	26.6	0.0
Red maple	302.3	39.5	66.8	87.8	36.9	15.2	5.6	24.7	11.7	3.7	10.5	0.0	0.0
Silver maple	417.5	0.2	0.0	22.3	35.7	14.3	46.3	48.3	30.1	43.1	38.6	89.8	48.9
Sugar maple	108.9	2.6	2.8	8.1	25.0	0.0	6.3	26.1	9.9	15.1	0.0	13.1	0.0
Serviceberry	2.7	0.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
River birch	331.7	0.0	12.4	57.0	24.2	43.2	0.0	7.6	45.9	49.1	9.0	83.3	0.0
Bumelia	51.8	4.4	16.8	23.7	4.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bluebeech, American hornbeam	32.7	13.2	4.6	10.6	2.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hickories [‡]	421.3	16.5	36.3	119.6	79.6	39.0	52.7	36.1	24.9	16.5	0.0	0.0	0.0
Water hickory	111.0	4.9	5.3	24.4	5.4	4.8	6.0	8.4	7.7	0.0	0.0	0.0	0.0
Bitternut hickory	350.4	6.1	14.5	63.1	25.5	40.3	29.1	23.0	25.6	58.8	17.8	46.6	0.0
Pignut hickory	182.8	3.0	8.0	6.6	5.1	30.3	39.8	45.3	18.8	4.1	14.1	7.8	0.0
Pecan	772.2	0.5	5.0	50.2	28.1	22.0	53.6	59.5	33.0	63.0	84.1	198.1	175.0
Nutmeg hickory	5.3	0.0	0.0	0.0	2.7	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0
Shagbark hickory	281.5	0.2	11.6	20.2	75.8	51.9	13.8	13.2	29.0	24.6	28.8	0.0	12.4
Black hickory	2,963.5	81.3	218.1	826.6	467.4	343.3	258.7	277.3	289.5	96.8	13.1	91.4	0.0
Mockernut hickory	1,661.6	54.3	109.3	372.5	305.5	242.1	197.6	146.1	107.3	81.2	45.6	0.0	0.0
Sugarberry	1,173.5	29.0	62.4	195.7	147.3	172.7	98.2	100.5	120.7	78.0	59.4	72.1	37.4
Hackberry	108.4	0.4	0.0	25.9	11.0	12.5	0.0	7.5	34.7	16.4	0.0	0.0	0.0
Eastern redbud	11.0	7.6	1.7	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Flowering dogwood	207.1	58.5	79.0	60.7	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hawthorn	26.6	6.7	1.5	13.5	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Common persimmon	166.4	19.9	26.4	66.1	10.7	9.9	13.7	0.0	0.0	0.0	19.8	0.0	0.0
White ash	1,077.3	14.3	25.7	130.9	175.1	139.1	158.4	99.8	127.4	62.7	55.0	88.9	0.0
Green ash	1,829.6	25.3	58.9	300.6	330.8	370.8	215.3	144.0	131.0	130.1	44.3	67.7	10.9
Waterlocust	32.2	1.7	2.8	16.9	0.0	0.0	1.9	0.0	9.0	0.0	0.0	0.0	0.0
Honeylocust	398.7	4.9	3.4	52.9	52.5	60.0	70.8	23.7	29.9	36.3	0.0	64.5	0.0
Kentucky coffeetree	15.1	0.0	0.0	6.2	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
American holly	12.3	3.5	1.4	0.0	0.0	1.3	0.0	2.7	0.0	3.5	0.0	0.0	0.0
Black walnut	428.9	5.4	6.2	64.2	19.5	33.5	23.7	72.1	29.5	20.8	26.4	89.9	37.8
Sweetgum	519.6	21.5	40.5	131.2	61.9	23.4	46.2	38.8	56.6	35.5	6.1	22.9	35.0
Osage-orange	449.9	23.1	38.1	207.3	66.1	20.9	15.4	21.2	8.2	15.6	0.0	33.9	0.0
Chinaberry	1.8	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White mulberry	6.6	0.0	0.0	0.0	2.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Red mulberry	113.8	9.1	15.7	39.8	17.5	10.9	4.2	9.6	0.0	3.0	3.9	0.0	0.0

Table 31.—Wood and bark dry weight of crowns in live trees on timberland by species and diameter class, east Oklahoma, 1993* —Continued

Species common name [†]	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		
	Million pounds													
Blackgum, black tupelo	560.2	18.7	20.7	88.1	88.6	58.9	50.3	64.0	77.3	22.8	36.8	34.0	0.0	0.0
Ironwood, eastern hophornbeam	127.0	38.5	14.5	68.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water-elm	6.2	0.0	0.0	0.0	0.0	2.1	2.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0
American sycamore	337.7	1.3	4.5	31.6	38.5	39.3	40.3	58.0	32.5	19.4	20.3	35.2	17.0	0.0
Eastern cottonwood	606.1	3.5	13.6	63.7	15.2	38.8	24.1	70.4	24.7	5.6	17.5	283.7	45.3	0.0
Black cherry	158.9	8.4	9.9	38.1	15.8	15.4	31.5	14.6	20.7	4.6	0.0	0.0	0.0	0.0
Plums [‡]	16.1	10.9	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White oak	4,158.7	69.0	143.7	669.5	670.9	469.8	423.4	336.4	405.1	344.5	253.9	317.9	54.3	0.0
Southern red oak	2,047.4	16.3	36.2	110.8	142.4	153.0	247.9	207.8	280.2	276.5	231.6	336.6	8.1	0.0
Cherrybark oak	52.3	0.3	3.5	10.0	4.7	0.0	0.0	3.7	0.0	12.4	10.7	6.9	0.0	0.0
Bluejack oak	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Overcup oak	131.9	3.8	11.7	16.8	13.2	11.8	8.0	5.9	20.9	0.0	19.7	5.4	14.7	0.0
Bur oak	236.0	0.2	0.0	0.0	5.4	11.7	21.2	20.3	17.8	15.3	23.1	102.3	18.8	0.0
Blackjack oak	2,226.7	104.5	302.6	459.0	301.0	289.3	198.7	176.4	178.5	90.7	59.9	66.0	0.0	0.0
Swamp chestnut oak	6.1	1.2	0.0	2.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chinkapin oak	540.2	7.2	12.8	63.3	10.9	48.6	21.0	58.3	47.7	60.7	49.6	160.1	0.0	0.0
Water oak	1,324.9	26.4	56.9	179.7	112.1	60.0	76.6	65.6	97.4	67.0	104.5	355.7	122.8	0.0
Nuttall oak	45.9	3.7	3.2	11.6	0.0	0.0	0.0	3.4	3.8	0.0	0.0	0.0	20.1	0.0
Pin oak	553.2	1.7	0.0	27.3	18.9	0.0	20.1	48.8	129.5	90.6	47.3	117.0	51.9	0.0
Willow oak	227.5	2.3	4.1	25.4	31.6	17.0	9.3	11.7	16.1	14.2	32.8	51.6	11.4	0.0
Northern red oak	2,039.7	36.2	68.4	259.4	286.7	265.7	227.3	266.5	165.7	195.2	88.7	148.9	31.0	0.0
Shumard oak	1,164.3	1.3	4.0	19.0	38.7	13.0	66.4	90.3	81.8	113.7	78.0	285.6	372.4	0.0
Post oak	16,928.2	204.4	687.7	3,313.3	2,772.5	2,228.3	1,900.2	2,106.5	1,389.6	869.4	496.4	939.2	20.8	0.0
Black oak	5,882.4	55.9	112.4	653.6	445.6	431.4	512.4	737.0	772.0	617.0	498.1	856.3	190.6	0.0
Black locust	40.8	3.9	6.1	18.9	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Black willow	179.5	1.4	0.0	31.6	37.5	38.8	17.4	2.3	0.0	22.5	4.4	23.6	0.0	0.0
Sassafras	75.0	21.5	4.1	29.4	11.9	6.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White basswood	11.3	0.7	0.0	0.0	3.7	0.0	4.8	0.0	2.2	0.0	0.0	0.0	0.0	0.0
Winged elm	1,483.4	111.9	217.0	556.1	231.2	121.7	98.9	68.2	26.0	21.4	21.5	9.4	0.0	0.0
American elm	381.7	19.5	28.8	67.7	64.6	23.3	31.0	48.4	22.6	19.8	11.6	18.1	26.4	0.0
Cedar elm	132.3	11.4	8.6	40.1	11.6	19.4	6.6	5.9	14.6	3.5	5.8	4.8	0.0	0.0
Siberian elm	2.7	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Slippery elm	94.0	6.4	5.0	29.0	20.1	7.7	12.6	0.0	0.0	5.4	1.9	6.0	0.0	0.0
September elm	11.6	0.5	2.0	0.0	1.9	2.9	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0
Tree sparkleberry	11.8	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other species [‡]	5.4	0.0	0.0	0.0	3.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All species	67,444.5	1,391.3	3,101.1	13,616.9	9,605.8	7,331.7	6,479.0	6,654.5	5,622.7	4,154.7	2,797.3	5,309.9	1,379.6	0.0

*Numbers in columns and rows may not total due to rounding.

†Alphabetized by genus; see species list, appendix 2.

‡Unidentified hickories.

§Includes cherries (except black cherry).

¶Other species include noncommercial and unidentified species.

Table 36.—Wood and bark dry weight of stems in live trees on timberland by county and diameter class, east Oklahoma, 1993*

County	All classes		Diameter class (Inches at breast height)							
			1.0–4.9		5.0–9.9		10.0–14.9		≥15.0	
	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡
—Million pounds—										
Adair	496.1	13,150.9	77.2	1,868.4	130.0	2,941.8	241.5	4,889.5	47.3	3,451.2
Atoka	2,485.0	10,914.6	321.6	2,584.2	786.4	2,850.1	904.0	2,929.3	473.1	2,551.0
Bryan	87.4	7,451.9	6.4	1,621.7	68.8	1,650.8	12.2	2,001.1	0.0	2,178.2
Cherokee	699.7	13,570.5	34.4	2,618.5	177.7	3,342.2	379.7	3,508.3	107.9	4,101.6
Choctaw	1,322.7	6,533.5	104.9	1,191.2	279.5	1,733.7	581.1	1,821.0	357.2	1,787.6
Coal	8.7	2,950.7	0.0	260.0	8.7	557.9	0.0	931.6	0.0	1,201.1
Delaware	314.8	9,365.9	106.0	1,965.7	100.9	2,063.7	67.0	3,010.5	40.9	2,326.1
Haskell	992.2	6,859.8	174.7	1,461.7	314.7	1,820.5	382.3	1,422.0	120.5	2,155.5
Latimer	4,925.1	8,474.0	529.6	2,814.1	1,815.4	2,609.8	1,899.3	2,241.4	680.9	808.7
Le Flore	12,037.2	22,350.4	1,506.3	6,423.3	4,796.9	7,258.3	4,456.7	5,489.2	1,277.3	3,179.6
McCurtain	19,688.2	21,956.6	2,735.9	7,330.9	9,867.2	5,586.5	4,675.7	4,643.4	2,409.5	4,395.7
McIntosh	49.3	5,905.5	0.0	1,207.6	49.3	1,644.2	0.0	1,558.6	0.0	1,495.1
Mayes	292.6	6,912.5	0.0	894.5	124.3	1,534.3	140.6	2,161.5	27.8	2,322.1
Muskogee	30.8	5,723.5	17.6	939.5	0.0	1,690.2	0.0	1,863.0	13.3	1,230.8
Ottawa	0.0	2,629.9	0.0	649.4	0.0	562.5	0.0	675.1	0.0	743.0
Pittsburg	1,369.9	5,353.7	241.5	1,628.3	499.7	1,028.9	475.3	1,300.3	153.4	1,396.1
Pushmataha	16,539.6	19,663.5	2,714.3	7,067.3	6,645.9	6,767.7	5,468.9	4,020.8	1,710.4	1,807.7
Sequoyah	380.3	8,833.1	83.5	2,512.3	121.4	2,574.1	112.4	2,082.2	62.9	1,664.4
All counties	61,719.6	178,600.4	8,654.0	45,038.8	25,786.7	48,217.4	19,796.7	46,548.7	7,482.2	38,795.6

*Numbers in columns and rows may not total due to rounding.

†Softwood species.

‡Hardwood species.

Table 37.—Wood and bark dry weight of crowns in live trees on timberland by county and diameter class, east Oklahoma, 1993*

County	All classes		Diameter class (Inches at breast height)							
			1.0–4.9		5.0–9.9		10.0–14.9		≥15.0	
	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡
—Million pounds—										
Adair	74.6	4,368.6	4.9	162.5	33.3	1,106.1	29.5	1,436.5	6.9	1,663.4
Atoka	393.7	3,681.0	20.5	224.7	179.2	1,254.3	114.7	968.1	79.2	1,233.8
Bryan	17.8	2,462.1	0.4	141.0	15.9	733.6	1.4	637.5	0.0	950.0
Cherokee	101.6	4,278.3	2.2	227.7	34.3	1,347.2	48.4	974.5	16.6	1,728.9
Choctaw	185.5	2,227.5	6.7	103.6	47.6	736.3	73.0	550.6	58.2	837.0
Coal	2.5	1,097.7	0.0	22.6	2.5	222.7	0.0	313.2	0.0	539.1
Delaware	50.8	3,096.3	6.8	170.9	28.9	795.0	8.6	875.6	6.5	1,254.8
Haskell	166.4	2,195.1	11.2	127.1	86.3	790.1	48.8	452.9	20.1	825.0
Latimer	748.6	2,621.6	33.8	244.7	367.6	1,191.0	237.8	764.2	109.4	421.8
Le Flore	2,005.2	7,074.6	96.1	558.6	1,150.8	3,234.2	557.1	1,800.6	201.2	1,481.1
McCurtain	3,910.2	6,424.5	174.6	637.5	2,686.1	2,326.0	634.5	1,417.7	415.0	2,043.3
McIntosh	22.5	1,926.4	0.0	105.0	22.5	679.1	0.0	439.7	0.0	702.5
Mayes	44.0	2,284.8	0.0	77.8	23.2	548.3	16.2	605.0	4.6	1,053.7
Muskogee	3.3	1,898.5	1.1	81.7	0.0	681.6	0.0	557.7	2.2	577.5
Ottawa	0.0	787.2	0.0	56.5	0.0	197.1	0.0	177.4	0.0	356.2
Pittsburg	195.6	1,634.0	15.4	141.6	95.1	433.9	60.2	397.5	24.9	661.0
Pushmataha	2,774.3	5,900.2	173.3	614.6	1,643.1	3,037.7	685.8	1,325.3	272.2	922.7
Sequoyah	51.8	2,738.0	5.3	218.5	21.9	1,111.8	14.6	622.3	10.0	785.5
All counties	10,748.3	56,696.2	552.4	3,916.4	6,438.3	20,426.0	2,530.5	14,316.6	1,227.0	18,037.2

*Numbers in columns and rows may not total due to rounding.

†Softwood species.

‡Hardwood species.

Table 38.—Wood and bark fresh weight of live trees on timberland by species and height class, east Oklahoma, 1993*

Species common name†	Height class in feet† (from a 1-foot stump to treetop)										
	All classes	<15	16–29	30–44	45–59	60–74	75–89	90–104	105–119	120–134	≥135
Eastern redcedar	4,623.7	1,872.4	566.0	1,492.2	605.4	87.7	0.0	0.0	0.0	0.0	0.0
Shortleaf pine	100,957.2	11,525.8	2,079.9	20,399.2	41,888.7	20,326.4	4,264.9	334.8	105.5	31.9	0.0
Loblolly pine	40,482.1	4,450.5	4,110.2	20,957.4	4,977.0	1,824.9	2,357.3	1,120.1	684.7	0.0	0.0
Baldcypress	258.8	0.0	11.3	0.0	60.9	60.1	126.6	0.0	0.0	0.0	0.0
Florida maple	306.6	106.6	0.0	35.4	22.7	92.2	49.6	0.0	0.0	0.0	0.0
Boxelder	2,084.6	215.2	20.7	286.4	784.1	413.1	298.2	66.9	0.0	0.0	0.0
Red maple	3,488.7	2,342.6	28.4	439.1	567.0	111.5	0.0	0.0	0.0	0.0	0.0
Silver maple	2,943.0	4.0	0.0	169.0	113.6	568.2	1,083.3	1,004.9	0.0	0.0	0.0
Sugar maple	732.3	117.8	0.0	122.1	340.7	151.7	0.0	0.0	0.0	0.0	0.0
Serviceberry	55.7	55.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
River birch	1,905.6	267.4	23.1	441.5	337.4	616.9	46.2	173.1	0.0	0.0	0.0
Bumelia	685.9	491.1	69.9	124.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bluebeech, American hornbeam	485.8	389.0	6.6	90.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hickories‡	3,285.1	1,076.8	83.2	709.3	975.6	378.1	62.1	0.0	0.0	0.0	0.0
Water hickory	732.5	206.2	0.0	100.6	138.0	50.3	134.6	0.0	102.7	0.0	0.0
Bitternut hickory	2,348.7	439.5	27.4	297.3	404.1	656.5	409.7	114.3	0.0	0.0	0.0
Pignut hickory	1,515.7	244.3	0.0	97.1	121.7	692.9	359.7	0.0	0.0	0.0	0.0
Pecan	4,175.5	1,125.5	79.5	331.0	751.3	1,509.1	1,056.1	336.1	0.0	0.0	0.0
Nutmeg hickory	58.7	0.0	0.0	0.0	58.7	0.0	0.0	0.0	0.0	0.0	0.0
Shagbark hickory	1,767.3	278.7	0.0	179.2	406.9	719.9	58.3	0.0	124.3	0.0	0.0
Black hickory	23,979.9	6,473.9	817.0	6,320.7	6,261.5	3,381.8	576.3	148.8	0.0	0.0	0.0
Mockernut hickory	13,638.8	3,494.9	471.3	3,495.7	3,760.9	1,999.7	267.2	149.1	0.0	0.0	0.0
Sugarberry	8,236.1	1,992.3	241.9	1,611.7	2,396.3	1,488.7	397.0	108.1	0.0	0.0	0.0
Hackberry	622.3	8.9	21.4	151.0	36.9	312.6	91.4	0.0	0.0	0.0	0.0
Eastern redbud	231.1	211.5	0.0	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Flowering dogwood	3,331.2	3,010.5	145.2	175.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hawthorn	279.9	182.6	37.4	19.4	40.5	0.0	0.0	0.0	0.0	0.0	0.0
Common persimmon	1,635.5	1,012.5	19.6	246.1	161.8	97.0	98.4	0.0	0.0	0.0	0.0
White ash	5,247.5	875.7	106.7	888.6	1,557.4	1,132.7	612.5	73.9	0.0	0.0	0.0
Green ash	9,049.0	1,841.7	33.9	1,065.3	2,521.2	2,146.0	1,267.2	173.7	0.0	0.0	0.0
Waterlocust	237.2	96.7	0.0	77.4	63.1	0.0	0.0	0.0	0.0	0.0	0.0
Honeylocust	2,509.3	180.1	8.1	744.8	1,013.9	431.1	131.4	0.0	0.0	0.0	0.0
Kentucky coffeetree	151.8	0.0	0.0	0.0	106.3	45.5	0.0	0.0	0.0	0.0	0.0
American holly	185.8	111.6	9.0	0.0	65.1	0.0	0.0	0.0	0.0	0.0	0.0
Black walnut	2,483.4	251.8	11.9	380.1	593.0	657.1	330.6	258.8	0.0	0.0	0.0
Sweetgum	6,149.0	1,631.6	16.3	511.8	1,166.4	1,451.3	961.0	387.2	23.4	0.0	0.0
Osage-orange	3,237.7	1,337.4	435.1	988.3	413.3	63.5	0.0	0.0	0.0	0.0	0.0
Chinaberry	42.7	42.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White mulberry	74.4	0.0	0.0	31.4	43.0	0.0	0.0	0.0	0.0	0.0	0.0
Red mulberry	1,293.2	574.2	93.5	395.8	229.7	0.0	0.0	0.0	0.0	0.0	0.0

Table 38.—Wood and bark fresh weight of live trees on timberland by species and height class, east Oklahoma, 1993^a—Continued

Species common name [†]	All classes	Height class in feet [†] (from a 1-foot stump to treetop)									
		<15	16–29	30–44	45–59	60–74	75–89	90–104	105–119	120–134	≥135
		Million pounds									
Blackgum, black tupelo	4,279.8	1,010.2	117.3	723.5	1,072.2	954.3	382.9	19.3	0.0	0.0	0.0
Ironwood, eastern hophornbeam	1,488.9	1,170.3	55.5	263.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water-elm	70.5	0.0	0.0	70.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
American sycamore	4,265.2	133.1	0.0	144.9	481.3	1,165.9	1,069.3	838.4	360.7	71.7	0.0
Eastern cottonwood	5,694.4	394.9	19.3	85.2	444.5	642.5	1,022.5	287.3	385.9	1,522.9	889.4
Black cherry	1,182.5	398.4	29.5	255.3	282.4	216.9	0.0	0.0	0.0	0.0	0.0
Plums [‡]	281.9	243.2	0.0	38.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White oak	25,687.2	4,414.7	308.1	3,609.6	9,857.1	5,246.5	1,642.8	508.3	100.2	0.0	0.0
Southern red oak	17,614.1	1,115.6	0.0	1,373.4	4,968.4	6,775.1	2,277.4	1,034.0	70.3	0.0	0.0
Cherrybark oak	395.9	79.7	0.0	55.3	54.8	83.2	27.9	95.0	0.0	0.0	0.0
Bluejack oak	9.7	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Overcup oak	949.1	322.6	0.0	138.8	203.2	95.7	91.9	96.9	0.0	0.0	0.0
Bur oak	1,199.7	3.1	0.0	31.0	527.5	350.6	186.5	100.9	0.0	0.0	0.0
Blackjack oak	25,068.1	8,497.6	3,178.0	8,418.4	4,093.3	704.2	176.6	0.0	0.0	0.0	0.0
Swamp chestnut oak	55.1	24.3	9.7	21.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chinkapin oak	3,043.7	415.2	93.9	406.8	897.6	1,134.9	95.3	0.0	0.0	0.0	0.0
Water oak	9,148.5	1,850.0	82.4	977.7	1,992.5	2,317.3	1,128.3	434.9	253.4	112.1	0.0
Nuttall oak	366.3	153.5	0.0	64.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pin oak	3,364.6	38.0	24.3	149.4	323.6	1,288.4	1,114.5	335.9	90.4	0.0	0.0
Willow oak	1,484.7	141.5	0.0	17.9	389.7	283.8	439.7	181.9	30.2	0.0	0.0
Northern red oak	16,320.5	2,240.8	104.6	2,431.8	5,879.3	3,778.3	1,705.0	180.8	0.0	0.0	0.0
Shumard oak	7,393.4	110.1	0.0	187.8	936.1	2,054.7	2,552.4	1,467.9	84.4	0.0	0.0
Post oak	98,417.1	17,903.1	4,098.5	36,245.3	31,407.3	7,790.9	785.2	159.3	27.4	0.0	0.0
Black oak	41,888.5	3,627.0	414.1	5,499.1	15,089.2	13,609.6	3,477.5	172.0	0.0	0.0	0.0
Black locust	355.2	218.9	41.5	66.0	28.8	0.0	0.0	0.0	0.0	0.0	0.0
Black willow	1,738.6	32.3	70.7	280.7	670.3	515.8	169.0	0.0	0.0	0.0	0.0
Sassafras	949.8	583.5	0.0	112.2	203.8	50.4	0.0	0.0	0.0	0.0	0.0
White basswood	127.9	16.4	12.6	44.6	54.2	0.0	0.0	0.0	0.0	0.0	0.0
Winged elm	16,993.7	7,585.6	1,172.5	4,267.6	3,040.8	927.3	0.0	0.0	0.0	0.0	0.0
American elm	4,031.8	1,114.3	57.2	781.3	872.3	1,016.1	190.6	0.0	0.0	0.0	0.0
Cedar elm	1,443.5	459.0	152.3	138.8	556.2	68.3	68.7	0.0	0.0	0.0	0.0
Siberian elm	34.9	0.0	0.0	0.0	34.9	0.0	0.0	0.0	0.0	0.0	0.0
Slippery elm	971.5	260.1	12.2	176.5	278.1	227.3	17.2	0.0	0.0	0.0	0.0
September elm	154.7	59.1	10.5	0.0	85.1	0.0	0.0	0.0	0.0	0.0	0.0
Tree sparkleberry	265.5	265.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other species**	57.9	0.0	0.0	24.0	33.9	0.0	0.0	0.0	0.0	0.0	0.0
All species	552,303.4	102,417.9	19,639.3	130,496.4	157,742.5	92,764.7	33,660.8	10,510.3	2,443.4	1,738.6	889.4

^aNumbers in columns and rows may not total due to rounding.[†]Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥ 1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in <15-foot class.[‡]Alphabetized by genus; see species list, appendix 2.[§]Unidentified hickories.[¶]Includes cherries (except black cherry).

**Other species include noncommercial and unidentified species.

Table 39. — Wood and bark fresh weight of stems in live trees on timberland by species and height class, east Oklahoma, 1993*

Species common name [†]	All classes	Height class in feet [†] (from a 1-foot stump to treetop)										
		<15	16–29	30–44	45–59	60–74	75–89	90–104	105–119	120–134	≥135	
-----Million pounds-----												
Eastern redcedar	3,883.2	1,686.4	376.8	1,214.8	527.8	77.3	0.0	0.0	0.0	0.0	0.0	
Shortleaf pine	86,132.7	10,402.6	1,394.4	16,272.4	36,181.1	17,782.8	3,697.8	285.9	89.7	26.0	0.0	
Loblolly pine	32,046.9	3,979.0	2,695.4	16,192.1	4,081.1	1,555.9	2,011.5	955.1	576.7	0.0	0.0	
Baldcypress	228.6	0.0	8.6	0.0	56.2	54.3	109.4	0.0	0.0	0.0	0.0	
Florida maple	234.0	89.4	0.0	23.9	14.7	68.7	37.4	0.0	0.0	0.0	0.0	
Boxelder	1,573.6	179.8	12.5	209.3	593.2	314.5	214.4	50.1	0.0	0.0	0.0	
Red maple	2,760.0	1,969.2	19.6	292.5	395.5	83.1	0.0	0.0	0.0	0.0	0.0	
Silver maple	2,211.6	3.4	0.0	119.5	81.5	428.8	812.3	766.0	0.0	0.0	0.0	
Sugar maple	537.1	94.2	0.0	92.6	240.2	110.0	0.0	0.0	0.0	0.0	0.0	
Serviceberry	42.8	42.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
River birch	1,322.7	215.1	16.5	286.4	236.6	424.8	25.5	117.9	0.0	0.0	0.0	
Bumelia	562.7	426.1	47.5	89.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Bluebeech, American hornbeam	381.9	324.6	2.9	54.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Hickories [‡]	2,550.0	924.3	49.4	477.2	766.5	285.7	46.9	0.0	0.0	0.0	0.0	
Water hickory	543.4	177.4	0.0	56.7	100.2	38.2	104.6	0.0	66.2	0.0	0.0	
Bitternut hickory	1,752.5	365.6	19.7	229.6	283.4	492.8	287.3	74.1	0.0	0.0	0.0	
Pignut hickory	1,184.5	208.4	0.0	69.4	98.7	539.7	268.4	0.0	0.0	0.0	0.0	
Pecan	2,937.9	97.0	54.4	225.2	575.4	1,078.1	703.0	204.8	0.0	0.0	0.0	
Nutmeg hickory	48.4	0.0	0.0	0.0	48.4	0.0	0.0	0.0	0.0	0.0	0.0	
Shagbark hickory	1,330.2	243.1	0.0	127.9	301.2	525.2	44.3	0.0	88.4	0.0	0.0	
Black hickory	18,346.4	5,468.1	485.4	4,433.5	4,847.9	2,578.1	429.8	103.6	0.0	0.0	0.0	
Mockernut hickory	10,472.5	2,931.7	294.7	2,560.3	2,862.4	1,511.7	202.7	109.0	0.0	0.0	0.0	
Sugarberry	6,040.5	1,598.4	148.8	1,092.1	1,784.7	1,070.2	267.4	78.8	0.0	0.0	0.0	
Hackberry	440.9	7.1	15.2	94.3	28.6	231.3	64.5	0.0	0.0	0.0	0.0	
Eastern redbud	199.2	182.8	0.0	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Flowering dogwood	2,613.8	2,412.3	89.5	112.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Hawthorn	211.9	145.8	25.7	13.4	27.0	0.0	0.0	0.0	0.0	0.0	0.0	
Common persimmon	1,232.2	811.6	11.1	158.1	111.0	74.6	65.8	0.0	0.0	0.0	0.0	
White ash	4,006.9	701.7	74.8	650.1	1,182.0	867.7	473.5	57.1	0.0	0.0	0.0	
Green ash	6,876.1	1,476.4	25.8	766.0	1,871.6	1,640.0	962.2	134.1	0.0	0.0	0.0	
Waterlocust	171.4	77.6	0.0	48.5	45.2	0.0	0.0	0.0	0.0	0.0	0.0	
Honeylocust	1,824.0	144.3	5.4	528.7	754.7	297.8	93.1	0.0	0.0	0.0	0.0	
Kentucky coffeetree	122.6	0.0	0.0	0.0	84.3	38.4	0.0	0.0	0.0	0.0	0.0	
American holly	156.2	96.5	6.6	0.0	53.2	0.0	0.0	0.0	0.0	0.0	0.0	
Black walnut	1,740.1	202.1	5.6	251.9	435.8	438.2	236.3	170.2	0.0	0.0	0.0	
Sweetgum	5,036.9	1,454.0	8.2	353.6	929.8	1,185.7	770.4	315.7	19.6	0.0	0.0	
Osage-orange	2,314.0	1,072.4	259.8	648.4	293.7	39.6	0.0	0.0	0.0	0.0	0.0	
Chinaberry	37.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
White mulberry	61.7	0.0	0.0	25.7	35.9	0.0	0.0	0.0	0.0	0.0	0.0	
Red mulberry	1,046.5	498.0	68.9	292.4	187.2	0.0	0.0	0.0	0.0	0.0	0.0	

Table 39.—Wood and bark fresh weight of stems in live trees on timberland by species and height class, east Oklahoma, 1993^a—Continued

Species common name [†]	All classes	Height class in feet [†] (from a 1-foot stump to treetop)										
		<15	16–29	30–44	45–59	60–74	75–89	90–104	105–119	120–134	≥135	
		-----Million pounds-----										
Blackgum, black tupelo	2,867.4	606.9	50.4	462.7	751.1	706.0	275.3	15.0	0.0	0.0	0.0	
Ironwood, eastern hophornbeam	1,127.9	935.9	32.6	159.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Water-elm	58.5	0.0	0.0	58.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
American sycamore	3,558.1	115.4	0.0	104.5	374.9	957.8	904.8	728.4	306.4	65.9	0.0	
Eastern cottonwood	4,476.0	342.7	14.2	51.2	315.1	534.8	851.4	216.4	304.3	1,172.3	673.7	
Black cherry	868.8	319.3	18.2	169.3	204.3	157.7	0.0	0.0	0.0	0.0	0.0	
Plums [‡]	223.9	193.9	0.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
White oak	18,424.2	3,662.9	187.2	2,370.7	6,927.9	3,712.0	1,163.7	334.8	65.0	0.0	0.0	
Southern red oak	13,105.5	992.1	0.0	980.4	3,799.5	5,040.9	1,569.0	678.4	45.2	0.0	0.0	
Cherrybark oak	271.3	71.1	0.0	29.8	40.9	48.1	18.5	63.0	0.0	0.0	0.0	
Bluejack oak	8.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Overcup oak	701.9	267.2	0.0	103.3	144.4	68.1	54.2	64.6	0.0	0.0	0.0	
Bur oak	811.3	2.7	0.0	22.1	381.8	225.1	115.4	64.2	0.0	0.0	0.0	
Blackjack oak	20,646.1	7,030.4	2,502.5	7,046.9	3,363.4	557.3	145.7	0.0	0.0	0.0	0.0	
Swamp chestnut oak	43.0	20.2	5.8	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Chinkapin oak	2,115.4	344.4	56.7	282.1	624.9	747.8	59.6	0.0	0.0	0.0	0.0	
Water oak	6,706.9	1,511.3	58.7	653.9	1,487.4	1,677.9	787.0	297.6	158.1	75.0	0.0	
Nuttall oak	271.4	125.4	0.0	45.1	0.0	0.0	0.0	101.0	0.0	0.0	0.0	
Pin oak	2,431.2	31.0	13.1	99.4	244.3	956.3	803.1	222.5	61.5	0.0	0.0	
Willow oak	1,087.0	115.6	0.0	7.9	285.1	208.6	323.4	126.1	20.2	0.0	0.0	
Northern red oak	12,846.9	2,007.5	77.0	1,816.4	4,602.3	2,906.8	1,299.0	137.9	0.0	0.0	0.0	
Shumard oak	5,435.9	91.2	0.0	134.2	690.8	1,560.8	1,863.2	1,031.9	63.8	0.0	0.0	
Post oak	68,228.9	13,663.3	2,475.8	24,135.5	21,815.5	5,467.8	543.6	108.3	19.1	0.0	0.0	
Black oak	31,907.8	3,297.8	285.7	4,031.7	11,607.1	10,090.8	2,464.5	130.3	0.0	0.0	0.0	
Black locust	265.0	175.5	25.5	44.5	19.6	0.0	0.0	0.0	0.0	0.0	0.0	
Black willow	1,388.9	27.9	50.6	222.6	535.3	420.8	131.8	0.0	0.0	0.0	0.0	
Sassafras	776.5	504.5	0.0	75.1	153.9	43.0	0.0	0.0	0.0	0.0	0.0	
White basswood	86.5	14.3	3.3	25.4	43.6	0.0	0.0	0.0	0.0	0.0	0.0	
Winged elm	13,772.9	6,575.1	751.9	3,184.4	2,488.5	772.8	0.0	0.0	0.0	0.0	0.0	
American elm	3,236.1	965.9	42.2	578.1	708.6	793.2	148.0	0.0	0.0	0.0	0.0	
Cedar elm	1,165.6	397.4	94.3	113.8	451.2	54.3	54.5	0.0	0.0	0.0	0.0	
Siberian elm	29.6	0.0	0.0	0.0	29.6	0.0	0.0	0.0	0.0	0.0	0.0	
Slippery elm	777.2	225.1	8.3	122.2	224.1	184.0	13.5	0.0	0.0	0.0	0.0	
September elm	129.4	51.2	6.9	0.0	71.3	0.0	0.0	0.0	0.0	0.0	0.0	
Tree sparkleberry	229.2	229.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other species**	47.5	0.0	0.0	19.9	27.6	0.0	0.0	0.0	0.0	0.0	0.0	
All species	425,344.3	85,669.7	12,984.5	95,276.2	122,530.8	71,725.5	25,517.9	7,742.5	1,884.2	1,339.3	673.7	

^a Numbers in columns and rows may not total due to rounding.[†] Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥ 1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in <1.5-foot class.[‡] Alphabetized by genus; see species list, appendix 2.[§] Unidentified hickories.[¶] Includes cherries (except black cherry).^{**} Other species include noncommercial and unidentified species.

Table 40.—Wood and bark fresh weight of crowns in live trees on timberland by species and height class, east Oklahoma, 1993^a

Species common name [‡]	All classes	Height class in feet [†] (from a 1-foot stump to treetop)										
		<15	16–29	30–44	45–59	60–74	75–89	90–104	105–119	120–134	≥135	
		-----Million pounds-----										
Eastern redcedar	740.5	185.9	189.2	277.4	77.6	10.4	0.0	0.0	0.0	0.0	0.0	
Shortleaf pine	14,824.5	1,123.2	685.5	4,126.8	5,707.5	2,543.6	567.1	49.0	15.9	5.9	0.0	
Loblolly pine	8,435.2	471.4	1,414.8	4,765.3	895.8	269.0	345.8	165.0	108.0	0.0	0.0	
Baldcypress	30.2	0.0	2.6	0.0	4.6	5.7	17.1	0.0	0.0	0.0	0.0	
Florida maple	72.6	17.2	0.0	11.6	8.0	23.5	12.2	0.0	0.0	0.0	0.0	
Boxelder	510.9	35.3	8.2	77.2	190.9	98.6	83.8	16.8	0.0	0.0	0.0	
Red maple	728.7	373.4	8.8	146.6	171.5	28.3	0.0	0.0	0.0	0.0	0.0	
Silver maple	731.4	0.5	0.0	49.6	32.1	139.3	271.0	238.9	0.0	0.0	0.0	
Sugar maple	195.2	23.6	0.0	29.4	100.5	41.6	0.0	0.0	0.0	0.0	0.0	
Serviceberry	12.9	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
River birch	582.9	52.4	6.6	155.1	100.8	192.1	20.7	55.2	0.0	0.0	0.0	
Bumelia	123.2	65.1	22.5	35.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Bluebeech, American hornbeam	103.9	64.4	3.7	35.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Hickories [§]	735.1	152.5	33.8	232.2	209.0	92.4	15.2	0.0	0.0	0.0	0.0	
Water hickory	189.1	28.8	0.0	43.8	37.8	12.1	30.0	0.0	36.5	0.0	0.0	
Bitternut hickory	596.2	73.9	7.7	67.8	120.7	163.6	122.4	40.1	0.0	0.0	0.0	
Pignut hickory	331.2	35.9	0.0	27.7	23.0	153.3	91.3	0.0	0.0	0.0	0.0	
Pecan	1,237.6	15.5	25.1	105.8	175.9	431.0	353.1	131.3	0.0	0.0	0.0	
Nutmeg hickory	10.3	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	
Shagbark hickory	437.0	35.5	0.0	51.3	105.6	194.8	14.0	0.0	35.8	0.0	0.0	
Black hickory	5,633.5	1,005.8	331.6	1,887.1	1,413.5	803.7	146.5	45.2	0.0	0.0	0.0	
Mockernut hickory	3,166.3	563.2	176.5	935.4	898.5	488.0	64.5	40.1	0.0	0.0	0.0	
Sugarberry	2,195.5	393.9	93.1	519.7	611.6	418.5	129.5	29.3	0.0	0.0	0.0	
Hackberry	181.4	1.8	6.3	56.7	8.4	81.3	26.9	0.0	0.0	0.0	0.0	
Eastern redbud	31.9	28.7	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Flowering dogwood	717.3	598.2	55.7	63.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Hawthorn	68.0	36.7	11.7	6.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	
Common persimmon	403.3	201.0	8.5	88.0	50.8	22.5	32.6	0.0	0.0	0.0	0.0	
White ash	1,240.6	173.9	31.9	238.6	375.4	265.0	139.0	16.9	0.0	0.0	0.0	
Green ash	2,172.9	365.3	8.0	299.3	649.7	506.0	305.0	39.6	0.0	0.0	0.0	
Waterlocust	65.9	19.1	0.0	28.9	17.9	0.0	0.0	0.0	0.0	0.0	0.0	
Honeylocust	685.3	35.8	2.7	216.1	259.2	133.3	38.3	0.0	0.0	0.0	0.0	
Kentucky coffeetree	29.2	0.0	0.0	0.0	22.1	7.2	0.0	0.0	0.0	0.0	0.0	
American holly	29.5	15.1	2.5	0.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	
Black walnut	743.2	49.7	6.3	128.2	157.2	218.9	94.3	88.6	0.0	0.0	0.0	
Sweetgum	1,112.1	177.7	8.0	158.2	236.6	265.6	190.6	71.5	3.8	0.0	0.0	
Osage-orange	923.7	265.0	175.3	339.8	119.7	23.9	0.0	0.0	0.0	0.0	0.0	
Chinaberry	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
White mulberry	12.7	0.0	0.0	5.7	7.1	0.0	0.0	0.0	0.0	0.0	0.0	
Red mulberry	246.7	76.3	24.6	103.4	42.5	0.0	0.0	0.0	0.0	0.0	0.0	

Table 40.—Wood and bark fresh weight of crowns in live trees on timberland by species and height class, east Oklahoma, 1993^a—Continued

Species common name [†]	All classes	Height class in feet [†] (from a 1-foot stump to treetop)										
		<15	16–29	30–44	45–59	60–74	75–89	90–104	105–119	120–134	≥135	
		-----Million pounds-----										
Blackgum, black tupelo	1,412.4	403.3	66.9	260.8	321.1	248.4	107.6	4.3	0.0	0.0	0.0	
Ironwood, eastern hophornbeam	361.0	234.4	22.8	103.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Water-elm	11.9	0.0	0.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
American sycamore	707.1	17.7	0.0	40.4	106.4	208.1	164.5	110.1	54.3	5.8	0.0	
Eastern cottonwood	1,218.3	52.2	5.1	34.1	129.3	107.7	171.1	70.9	81.6	350.6	215.7	
Black cherry	313.7	79.1	11.3	86.1	78.1	59.2	0.0	0.0	0.0	0.0	0.0	
Plums [‡]	57.9	49.2	0.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
White oak	7,263.0	751.9	120.8	1,238.8	2,929.3	1,534.5	479.1	173.5	35.2	0.0	0.0	
Southern red oak	4,508.6	123.4	0.0	393.0	1,168.9	1,734.2	708.5	355.6	25.1	0.0	0.0	
Cherrybark oak	124.6	8.6	0.0	25.5	13.9	35.1	9.4	32.0	0.0	0.0	0.0	
Bluejack oak	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Overcup oak	247.3	55.4	0.0	35.5	58.8	27.6	37.6	32.3	0.0	0.0	0.0	
Bur oak	388.4	0.4	0.0	8.9	145.8	125.5	71.1	36.7	0.0	0.0	0.0	
Blackjack oak	4,422.0	1,467.2	675.6	1,371.5	729.9	147.0	30.8	0.0	0.0	0.0	0.0	
Swamp chestnut oak	12.1	4.0	3.9	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Chinkapin oak	928.3	70.9	37.2	124.7	272.7	387.1	35.7	0.0	0.0	0.0	0.0	
Water oak	2,441.6	338.6	23.7	323.8	505.0	639.4	341.3	137.3	95.3	37.1	0.0	
Nuttall oak	94.9	28.1	0.0	19.8	0.0	0.0	0.0	46.9	0.0	0.0	0.0	
Pin oak	933.4	7.0	11.2	50.0	79.3	332.1	311.5	113.4	28.9	0.0	0.0	
Willow oak	397.7	25.9	0.0	9.9	104.6	75.3	116.3	55.7	10.0	0.0	0.0	
Northern red oak	3,473.6	233.3	27.6	615.4	1,277.0	871.5	405.9	42.9	0.0	0.0	0.0	
Shumard oak	1,957.5	18.9	0.0	53.6	245.2	493.9	689.2	436.1	20.6	0.0	0.0	
Post oak	30,188.2	4,239.8	1,622.7	12,109.8	9,591.7	2,323.1	241.7	51.1	8.3	0.0	0.0	
Black oak	9,980.7	329.1	128.4	1,467.4	3,482.2	3,518.8	1,013.0	41.7	0.0	0.0	0.0	
Black locust	90.2	43.4	16.0	21.5	9.3	0.0	0.0	0.0	0.0	0.0	0.0	
Black willow	349.7	4.4	20.1	58.1	135.0	95.0	37.2	0.0	0.0	0.0	0.0	
Sassafras	173.4	79.0	0.0	37.1	49.9	7.3	0.0	0.0	0.0	0.0	0.0	
White basswood	41.4	2.2	9.3	19.3	10.6	0.0	0.0	0.0	0.0	0.0	0.0	
Winged elm	3,220.9	1,010.4	420.6	1,083.2	552.2	154.5	0.0	0.0	0.0	0.0	0.0	
American elm	795.6	148.3	15.0	203.2	163.6	223.0	42.6	0.0	0.0	0.0	0.0	
Cedar elm	277.9	61.6	58.0	24.9	105.0	14.0	14.3	0.0	0.0	0.0	0.0	
Siberian elm	5.3	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	
Slippery elm	194.3	35.0	3.9	54.3	54.0	43.3	3.7	0.0	0.0	0.0	0.0	
September elm	25.3	7.9	3.6	0.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	
Tree sparkleberry	36.3	36.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other species**	10.4	0.0	0.0	4.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	
All species	126,959.2	16,748.2	6,654.8	35,220.1	35,211.7	21,039.2	8,143.0	2,767.9	559.2	399.3	215.7	

^a Numbers in columns and rows may not total due to rounding.[†] Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥ 1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in <1.5-foot class.[‡] Alphabetized by genus; see species list, appendix 2.[§] Unidentified hickories.[¶] Includes cherries (except black cherry).^{**} Other species include noncommercial and unidentified species.

Table 41.—Wood and bark dry weight of live trees on timberland by species and height class, east Oklahoma, 1993*

Species common name [†]	All classes	Height class in feet [‡] (from a 1-foot stump to treetop)										
		<15	16–29	30–44	45–59	60–74	75–89	90–104	105–119	120–134	≥135	
		-----Million pounds-----										
Eastern redcedar	2,334.7	976.0	284.9	736.3	295.1	42.4	0.0	0.0	0.0	0.0	0.0	
Shorleaf pine	49,598.2	5,962.1	1,044.5	10,052.8	20,397.5	9,850.7	2,062.5	161.7	50.9	15.5	0.0	
Loblolly pine	20,390.2	2,283.2	2,091.6	10,576.7	2,492.8	904.2	1,160.2	548.5	333.0	0.0	0.0	
Baldcypress	144.8	0.0	6.3	0.0	34.0	33.6	70.8	0.0	0.0	0.0	0.0	
Florida maple	172.7	60.4	0.0	19.7	12.5	51.7	28.4	0.0	0.0	0.0	0.0	
Boxelder	1,179.7	122.0	11.2	157.9	442.5	238.0	169.9	38.3	0.0	0.0	0.0	
Red maple	1,963.7	1,328.3	15.5	240.9	315.1	63.9	0.0	0.0	0.0	0.0	0.0	
Silver maple	1,692.2	2.3	0.0	92.8	63.5	324.5	617.3	591.8	0.0	0.0	0.0	
Sugar maple	427.1	66.8	0.0	71.7	199.5	89.1	0.0	0.0	0.0	0.0	0.0	
Serviceberry	34.2	34.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
River birch	1,125.4	154.8	13.7	262.5	200.1	364.7	27.4	102.1	0.0	0.0	0.0	
Bumelia	368.4	265.0	37.4	66.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Bluebeech, American hornbeam	269.5	222.0	4.1	43.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Hickories [§]	2,062.7	665.8	52.1	447.2	619.4	239.1	39.2	0.0	0.0	0.0	0.0	
Water hickory	458.4	127.5	0.0	63.2	86.9	31.8	85.5	0.0	63.4	0.0	0.0	
Bitternut hickory	1,389.6	256.4	16.0	162.9	234.1	386.6	267.3	66.2	0.0	0.0	0.0	
Pignut hickory	859.5	137.2	0.0	55.1	71.2	394.6	201.4	0.0	0.0	0.0	0.0	
Pecan	2,604.4	69.4	49.9	208.0	474.7	944.6	652.7	205.1	0.0	0.0	0.0	
Nutmeg hickory	30.5	0.0	0.0	0.0	30.5	0.0	0.0	0.0	0.0	0.0	0.0	
Shagbark hickory	1,071.4	147.8	0.0	105.0	255.4	447.6	36.7	0.0	78.9	0.0	0.0	
Black hickory	13,617.6	3,742.0	479.9	3,562.4	3,535.9	1,905.3	307.7	84.4	0.0	0.0	0.0	
Mockernut hickory	7,770.4	2,049.9	272.8	1,920.7	2,157.7	1,135.7	147.2	86.4	0.0	0.0	0.0	
Sugarberry	4,805.1	1,142.9	140.1	942.0	1,412.1	873.4	230.7	63.8	0.0	0.0	0.0	
Hackberry	364.8	4.9	12.4	88.0	21.8	184.1	53.5	0.0	0.0	0.0	0.0	
Eastern redbud	126.7	116.4	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Flowering dogwood	1,904.8	1,718.7	84.1	102.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Hawthorn	159.7	103.0	21.7	11.3	23.7	0.0	0.0	0.0	0.0	0.0	0.0	
Common persimmon	942.9	578.7	11.3	143.3	94.9	57.5	57.2	0.0	0.0	0.0	0.0	
White ash	3,738.0	500.0	78.3	657.0	1,156.4	840.7	451.7	53.9	0.0	0.0	0.0	
Green ash	6,403.0	1,058.6	25.3	787.4	1,870.3	1,592.2	941.4	127.9	0.0	0.0	0.0	
Waterlocust	137.5	55.5	0.0	45.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	
Honeylocust	1,469.6	102.8	4.7	436.7	597.2	250.9	77.2	0.0	0.0	0.0	0.0	
Kentucky coffeetree	79.4	0.0	0.0	0.0	55.7	23.7	0.0	0.0	0.0	0.0	0.0	
American holly	99.3	61.3	4.8	0.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0	
Black walnut	1,447.7	144.6	7.0	221.8	349.7	380.4	194.0	150.3	0.0	0.0	0.0	
Sweetgum	2,941.1	774.9	7.7	244.2	558.2	696.5	462.2	186.1	11.3	0.0	0.0	
Osage-orange	1,872.2	765.5	252.0	577.0	241.3	36.4	0.0	0.0	0.0	0.0	0.0	
Chinaberry	23.1	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
White mulberry	38.9	0.0	0.0	16.5	22.5	0.0	0.0	0.0	0.0	0.0	0.0	
Red mulberry	687.2	310.5	49.7	208.4	118.6	0.0	0.0	0.0	0.0	0.0	0.0	

Table 41.—Wood and bark dry weight of live trees on timberland by species and height class, 1993*—Continued

Species common name [†]	Height class in feet [†] (from a 1-foot stump to treetop)									
	All	16–	29	44	59	74	89	104	119	134
	classes	<15	<15	<15	<15	<15	<15	<15	<15	<15
Blackgum, black tupelo	2,216.1	493.0	58.4	369.1	562.5	511.8	210.5	10.8	0.0	0.0
Ironwood, eastern hophornbeam	848.1	663.2	32.0	133.0	0.0	0.0	0.0	0.0	0.0	0.0
Water-elm	36.6	0.0	0.0	36.6	0.0	0.0	0.0	0.0	0.0	0.0
American sycamore	1,944.5	71.9	0.0	65.8	218.3	528.3	484.5	379.9	163.3	32.5
Eastern cottonwood	2,880.7	212.8	10.3	45.3	233.0	331.1	522.9	141.8	192.7	753.4
Black cherry	688.6	227.6	17.1	149.2	166.8	127.8	0.0	0.0	0.0	0.0
Plums [‡]	159.2	136.3	0.0	22.8	0.0	0.0	0.0	0.0	0.0	0.0
White oak	15,348.3	2,658.9	183.7	2,156.7	5,885.9	3,128.4	976.3	299.4	58.9	0.0
Southern red oak	7,797.2	662.1	0.0	439.4	2,014.9	3,060.5	1,079.0	506.0	35.3	0.0
Cherrybark oak	175.2	48.0	0.0	14.6	18.0	35.0	13.0	46.6	0.0	0.0
Bluejack oak	5.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Overcup oak	566.9	194.3	0.0	82.9	121.8	56.9	53.9	57.2	0.0	0.0
Bur oak	708.6	1.9	0.0	18.6	314.1	205.7	109.1	59.2	0.0	0.0
Blackjack oak	15,240.6	5,118.3	1,961.3	5,147.8	2,482.3	424.5	106.5	0.0	0.0	0.0
Swamp chestnut oak	33.7	14.6	6.1	13.0	0.0	0.0	0.0	0.0	0.0	0.0
Chinkapin oak	1,808.1	250.1	56.0	242.9	534.3	669.0	55.8	0.0	0.0	0.0
Water oak	5,098.8	1,041.8	47.3	558.9	1,127.4	1,280.6	614.1	233.6	135.3	59.7
Nuttall oak	202.7	86.2	0.0	37.2	0.0	0.0	0.0	79.3	0.0	0.0
Pin oak	1,865.5	21.2	14.0	85.9	185.1	719.7	613.7	177.4	48.5	0.0
Willow oak	833.8	79.8	0.0	9.6	224.5	160.4	245.2	98.3	16.1	0.0
Northern red oak	9,309.5	1,307.9	60.3	1,394.6	3,342.8	2,139.2	962.9	101.8	0.0	0.0
Shumard oak	4,189.5	66.3	0.0	107.8	533.5	1,163.1	1,442.5	828.9	47.5	0.0
Post oak	60,709.8	11,161.7	2,542.3	22,347.5	19,288.9	4,774.3	480.8	97.6	16.7	0.0
Black oak	23,891.7	2,109.6	240.4	3,174.4	8,646.3	7,682.5	1,941.4	97.2	0.0	0.0
Black locust	216.8	125.2	27.9	44.4	19.4	0.0	0.0	0.0	0.0	0.0
Black willow	901.2	17.7	37.6	146.6	347.4	266.5	85.5	0.0	0.0	0.0
Sassafras	513.3	320.7	0.0	59.5	107.1	26.1	0.0	0.0	0.0	0.0
White basswood	59.9	8.1	5.1	21.3	25.4	0.0	0.0	0.0	0.0	0.0
Winged elm	9,043.0	4,111.6	626.5	2,251.2	1,576.9	476.8	0.0	0.0	0.0	0.0
American elm	2,111.7	603.6	30.4	411.8	452.1	517.3	96.6	0.0	0.0	0.0
Cedar elm	762.4	250.5	81.5	72.6	288.5	34.7	34.6	0.0	0.0	0.0
Siberian elm	18.2	0.0	0.0	0.0	18.2	0.0	0.0	0.0	0.0	0.0
Slippery elm	513.0	142.4	6.6	93.4	145.7	116.3	8.6	0.0	0.0	0.0
September elm	81.7	32.1	5.6	0.0	44.0	0.0	0.0	0.0	0.0	0.0
Tree sparticleberry	147.2	147.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other species**	30.4	0.0	0.0	12.6	17.8	0.0	0.0	0.0	0.0	0.0
All species	307,764.5	58,527.1	11,129.5	73,122.7	87,453.9	50,819.8	18,479.4	5,681.8	1,251.8	861.1
	437.4									

*Numbers in columns and rows may not total due to rounding.

[†]Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥ 1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in <15 -foot class.

[‡]Alphabetized by genus; see species list, appendix 2.

[§]Unidentified hickories.

[¶]Includes cherries (except black cherry).

**Other species include noncommercial and unidentified species.

Table 42. —Wood and bark dry weight of stems in live trees on timberland by species and height class, east Oklahoma, 1993*

Species common name†	Height class in feet‡ (from a 1-foot stump to treetop)										
	All	16–	29	44	59	74	89	104	119	134	≥135
Eastern redcedar	2,026.5	199.3	612.7	259.4	37.7	0.0	1,802.1	139.1	43.6	0.0	0.0
Shortleaf pine	43,068.5	734.3	8,212.1	17,830.3	8,689.8	0.0	0.0	0.0	0.0	0.0	0.0
Loblolly pine	16,496.7	2,146.2	1,426.6	8,342.5	2,069.8	773.9	990.9	467.2	279.7	0.0	0.0
Baldcypress	127.9	0.0	4.8	0.0	31.5	30.4	61.2	0.0	0.0	0.0	0.0
Florida maple	137.3	55.6	13.3	8.2	38.8	38.8	21.5	0.0	0.0	0.0	0.0
Boxelder	902.8	112.2	6.7	115.6	335.6	181.2	122.6	28.8	0.0	0.0	0.0
Red maple	1,661.4	1,222.0	10.7	160.4	220.5	47.8	0.0	0.0	0.0	0.0	0.0
Silver maple	1,274.6	2.1	0.0	65.6	45.7	245.7	465.3	450.4	0.0	0.0	0.0
Sugar maple	318.2	61.5	0.0	54.2	138.9	63.6	0.0	0.0	0.0	0.0	0.0
Serviceberry	31.5	31.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
River birch	793.6	142.4	9.8	169.6	139.6	248.5	14.9	68.8	0.0	0.0	0.0
Bumelia	316.5	243.8	25.5	47.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bluebeech, American hornbeam	236.8	204.3	1.8	30.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hickories	1,641.4	610.8	31.0	301.6	487.9	180.7	29.6	0.0	0.0	0.0	0.0
Water hickory	347.3	117.3	0.0	35.7	63.2	24.1	66.5	40.5	0.0	0.0	0.0
Bitternut hickory	1,039.2	235.9	11.5	124.7	162.8	284.5	178.0	41.8	0.0	0.0	0.0
Pignut hickory	676.6	126.2	0.0	39.0	57.4	304.8	149.1	0.0	0.0	0.0	0.0
Pecan	1,832.2	63.8	34.3	141.6	364.1	673.4	431.5	123.6	0.0	0.0	0.0
Nutmeg hickory	25.2	0.0	0.0	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Shagbark hickory	790.0	136.0	0.0	74.7	183.4	316.5	26.7	52.8	0.0	0.0	0.0
Black hickory	10,654.1	3,442.6	289.0	2,499.4	2,712.3	1,429.0	223.9	57.9	0.0	0.0	0.0
Mockernut hickory	6,108.8	1,884.6	171.5	1,409.6	1,626.9	843.9	109.4	62.8	0.0	0.0	0.0
Sugarberry	3,631.6	1,051.5	86.0	634.8	1,042.4	618.8	152.2	45.9	0.0	0.0	0.0
Hackberry	256.3	4.5	8.8	54.7	16.8	134.4	37.1	0.0	0.0	0.0	0.0
Eastern redbud	115.7	107.1	0.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Flowering dogwood	1,697.7	1,581.2	51.6	64.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hawthorn	133.1	94.7	14.8	7.8	15.7	0.0	0.0	0.0	0.0	0.0	0.0
Common persimmon	776.4	532.4	6.4	91.7	64.8	43.7	37.3	0.0	0.0	0.0	0.0
White ash	2,660.7	460.0	49.7	433.3	788.0	577.8	314.3	37.5	0.0	0.0	0.0
Green ash	4,573.4	971.7	17.2	510.3	1,249.1	1,094.4	641.8	88.9	0.0	0.0	0.0
Waterlocust	105.3	51.0	0.0	28.1	26.1	0.0	0.0	0.0	0.0	0.0	0.0
Honeylocust	1,070.8	94.6	3.1	308.6	440.4	170.3	53.8	0.0	0.0	0.0	0.0
Kentucky coffeetree	64.3	0.0	0.0	44.3	20.0	0.0	0.0	0.0	0.0	0.0	0.0
American holly	87.0	56.4	3.5	0.0	27.2	0.0	0.0	0.0	0.0	0.0	0.0
Black walnut	1,018.8	133.0	3.2	146.3	254.9	248.6	136.3	96.4	0.0	0.0	0.0
Sweetgum	2,421.5	713.0	3.9	168.0	443.2	565.8	367.6	150.6	9.4	0.0	0.0
Osage-orange	1,422.3	704.3	149.9	376.7	169.4	22.0	0.0	0.0	0.0	0.0	0.0
Chinaberry	21.2	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
White mulberry	32.3	0.0	0.0	13.5	18.8	0.0	0.0	0.0	0.0	0.0	0.0
Red mulberry	573.4	285.6	36.7	154.2	96.8	0.0	0.0	0.0	0.0	0.0	0.0

—Million pounds

Table 42.—Wood and bark dry weight of stems in live trees on timberland by species and height class, east Oklahoma, 1993*—Continued

Species common name [†]	All classes	Height class in feet [†] (from a 1-foot stump to treetop)										
		<15	16–29	30–44	45–59	60–74	75–89	90–104	105–119	120–134	≥135	
----- Million pounds -----												
Blackgum, black tupelo	1,655.9	453.6	25.4	237.7	397.0	381.1	152.6	8.5	0.0	0.0	0.0	
Ironwood, eastern hophornbeam	721.1	610.1	18.8	92.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Water-elm	30.4	0.0	0.0	30.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
American sycamore	1,606.8	66.2	0.0	47.0	168.0	428.3	404.8	326.0	136.9	29.6	0.0	
Eastern cottonwood	2,274.6	195.7	7.6	27.4	165.6	276.1	435.8	106.5	151.7	578.1	330.0	
Black cherry	529.7	209.4	10.5	98.4	119.6	91.7	0.0	0.0	0.0	0.0	0.0	
Plums [‡]	143.0	125.4	0.0	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
White oak	11,189.6	2,446.2	111.6	1,412.4	4,110.6	2,193.6	683.7	193.9	37.5	0.0	0.0	
Southern red oak	5,749.8	607.4	0.0	314.9	1,525.1	2,235.2	723.8	321.7	21.9	0.0	0.0	
Cherrybark oak	122.9	44.2	0.0	7.8	13.3	19.3	8.3	30.0	0.0	0.0	0.0	
Bluejack oak	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Overcup oak	435.0	178.7	0.0	61.3	86.4	40.0	31.2	37.4	0.0	0.0	0.0	
Bur oak	472.5	1.7	0.0	13.2	225.2	129.6	66.0	36.9	0.0	0.0	0.0	
Blackjack oak	13,013.9	4,703.1	1,545.8	4,310.5	2,033.2	333.6	87.6	0.0	0.0	0.0	0.0	
Swamp chestnut oak	27.6	13.5	3.6	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Chinkapin oak	1,267.9	230.1	33.8	167.4	369.0	433.6	34.1	0.0	0.0	0.0	0.0	
Water oak	3,773.9	958.5	33.3	369.4	828.0	900.9	413.1	153.0	79.7	38.0	0.0	
Nuttall oak	156.8	79.3	0.0	25.5	0.0	0.0	0.0	52.0	0.0	0.0	0.0	
Pin oak	1,312.4	19.5	7.4	56.5	137.8	520.3	427.8	111.5	31.5	0.0	0.0	
Willow oak	606.3	73.4	0.0	3.9	162.4	115.5	175.4	65.5	10.2	0.0	0.0	
Northern red oak	7,269.7	1,203.2	43.8	1,027.1	2,580.4	1,618.6	720.3	76.2	0.0	0.0	0.0	
Shumard oak	3,025.2	61.0	0.0	75.8	386.9	867.8	1,030.4	568.2	35.2	0.0	0.0	
Post oak	43,781.6	10,263.4	1,557.8	14,907.3	13,322.6	3,323.6	329.8	65.6	11.6	0.0	0.0	
Black oak	18,009.3	1,939.3	164.8	2,308.3	6,584.0	5,598.1	1,342.6	72.2	0.0	0.0	0.0	
Black locust	176.1	115.2	17.4	30.2	13.3	0.0	0.0	0.0	0.0	0.0	0.0	
Black willow	721.8	16.3	27.0	116.4	277.8	217.7	66.6	0.0	0.0	0.0	0.0	
Sassafras	438.4	295.0	0.0	40.0	81.0	22.3	0.0	0.0	0.0	0.0	0.0	
White basswood	48.7	7.5	3.6	17.0	20.6	0.0	0.0	0.0	0.0	0.0	0.0	
Winged elm	7,559.6	3,782.6	403.6	1,683.2	1,292.2	397.9	0.0	0.0	0.0	0.0	0.0	
American elm	1,730.0	555.3	22.5	305.3	367.7	404.2	75.0	0.0	0.0	0.0	0.0	
Cedar elm	630.1	230.5	50.8	59.6	234.3	27.6	27.4	0.0	0.0	0.0	0.0	
Siberian elm	15.4	0.0	0.0	0.0	15.4	0.0	0.0	0.0	0.0	0.0	0.0	
Slippery elm	418.9	131.0	4.5	64.9	117.6	94.2	6.8	0.0	0.0	0.0	0.0	
September elm	70.1	29.5	3.7	0.0	36.9	0.0	0.0	0.0	0.0	0.0	0.0	
Tree sparkleberry	135.4	135.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Other species**	25.0	0.0	0.0	10.5	14.5	0.0	0.0	0.0	0.0	0.0	0.0	
All species	240,320.0	54,009.7	7,488.8	53,401.2	67,147.3	38,581.1	13,676.7	4,084.8	942.0	658.4	330.0	

*Numbers in columns and rows may not total due to rounding.

†Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥ 1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in <15-foot class.

‡Alphabetized by genus; see species list, appendix 2.

§Unidentified hickories.

¶Includes cherries (except black cherry).

**Other species include noncommercial and unidentified species.

Table 43.—Wood and bark dry weight of crowns in live trees on timberland by species and height class, east Oklahoma, 1993*

Species common name [†]	All classes	Height class in feet [†] (from a 1-foot stump to treetop)										
		<15	16–29	30–44	45–59	60–74	75–89	90–104	105–119	120–134	≥135	
		-----Million pounds-----										
Eastern redcedar	308.2	58.6	85.6	123.6	35.7	4.7	0.0	0.0	0.0	0.0	0.0	
Shorleaf pine	6,529.7	357.7	310.2	1,840.7	2,567.1	1,160.9	260.4	22.6	7.3	2.8	0.0	
Loblolly pine	3,893.5	137.0	665.0	2,234.2	423.0	130.3	169.4	81.3	53.3	0.0	0.0	
Baldypress	16.9	0.0	1.5	0.0	2.6	3.2	9.6	0.0	0.0	0.0	0.0	
Florida maple	35.3	4.8	0.0	6.4	4.3	12.9	6.9	0.0	0.0	0.0	0.0	
Boxelder	276.9	9.8	4.5	42.3	106.8	56.7	47.3	9.5	0.0	0.0	0.0	
Red maple	302.3	106.3	4.8	80.5	94.6	16.1	0.0	0.0	0.0	0.0	0.0	
Silver maple	417.5	0.2	0.0	27.2	17.8	78.9	152.0	141.5	0.0	0.0	0.0	
Sugar maple	108.9	5.3	0.0	17.6	60.6	25.4	0.0	0.0	0.0	0.0	0.0	
Serviceberry	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
River birch	331.7	12.4	4.0	92.9	60.4	116.2	12.5	33.4	0.0	0.0	0.0	
Bumelia	51.8	21.2	11.9	18.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Bluebeech, American hornbeam	32.7	17.8	2.3	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Hickories [‡]	421.3	55.0	21.1	145.6	131.5	58.4	9.6	0.0	0.0	0.0	0.0	
Water hickory	111.0	10.2	0.0	27.5	23.7	7.7	19.0	0.0	22.9	0.0	0.0	
Bitternut hickory	350.4	20.5	4.5	38.3	71.3	102.1	89.3	24.4	0.0	0.0	0.0	
Pignut hickory	182.8	11.0	0.0	16.1	13.7	89.8	52.3	0.0	0.0	0.0	0.0	
Pecan	772.2	5.6	15.6	66.3	110.6	271.2	221.2	81.6	0.0	0.0	0.0	
Nutmeg hickory	5.3	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	
Shagbark hickory	281.5	11.8	0.0	30.3	72.0	131.1	10.1	0.0	26.2	0.0	0.0	
Black hickory	2,963.5	299.4	191.0	1,063.0	823.6	476.3	83.8	26.5	0.0	0.0	0.0	
Mockernut hickory	1,661.6	165.3	101.2	511.1	530.8	291.8	37.7	23.6	0.0	0.0	0.0	
Sugarberry	1,173.5	91.4	54.2	307.3	369.7	254.6	78.4	18.0	0.0	0.0	0.0	
Hackberry	108.4	0.4	3.7	33.3	5.1	49.6	16.4	0.0	0.0	0.0	0.0	
Eastern redbud	11.0	9.3	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Flowering dogwood	207.1	137.5	32.5	37.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Hawthorn	26.6	8.2	6.9	3.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0	
Common persimmon	166.4	46.3	4.9	51.6	30.1	13.7	19.8	0.0	0.0	0.0	0.0	
White ash	1,077.3	40.0	28.6	223.7	368.3	262.9	137.4	16.4	0.0	0.0	0.0	
Green ash	1,829.6	86.9	8.1	277.2	621.2	497.8	299.6	38.9	0.0	0.0	0.0	
Waterlocust	32.2	4.4	0.0	16.9	10.9	0.0	0.0	0.0	0.0	0.0	0.0	
Honeylocust	398.7	8.2	1.6	128.1	156.8	80.5	23.5	0.0	0.0	0.0	0.0	
Kentucky coffeetree	15.1	0.0	0.0	0.0	11.5	3.7	0.0	0.0	0.0	0.0	0.0	
American holly	12.3	4.9	1.3	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	
Black walnut	428.9	11.6	3.8	75.5	94.7	131.8	57.7	53.9	0.0	0.0	0.0	
Sweetgum	519.6	62.0	3.8	76.1	115.0	130.6	94.6	35.5	1.9	0.0	0.0	
Osage-orange	449.9	61.2	102.1	200.3	72.0	14.3	0.0	0.0	0.0	0.0	0.0	
Chinaberry	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
White mulberry	6.6	0.0	0.0	2.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	
Red mulberry	113.8	24.8	13.0	54.2	21.8	0.0	0.0	0.0	0.0	0.0	0.0	

Table 43.—Wood and bark dry weight of crowns in live trees on timberland by species and height class, east Oklahoma, 1993^a—Continued

*Numbers in columns and rows may not total due to rounding.
†Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥ 1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in <15 -foot class.
‡Alphabetized by genus; see species list, appendix 2.
§Unidentified hickories.
¶Includes cherries (except black cherry).
**Other species include noncommercial and unidentified species.

*Numbers in columns and rows may not total due to rounding.
†Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥ 1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in <15-foot class.
‡Alphabetized by genus; see species list, appendix 2.
§Unidentified hickories.
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*Numbers in columns and rows may not total due to rounding.
†Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥ 1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in <15 -foot class.
‡Alphabetized by genus; see species list, appendix 2.
§Unidentified hickories.
¶Includes cherries (except black cherry).
**Other species include noncommercial and unidentified species.

*Numbers in columns and rows may not total due to rounding.
†Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥ 1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in <15 -foot class.
‡Alphabetized by genus; see species list, appendix 2.
§Unidentified hickories.
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*Numbers in columns and rows may not total due to rounding.
†Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥ 1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in <15 -foot class.
‡Alphabetized by genus; see species list, appendix 2.
§Unidentified hickories.
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*Numbers in columns and rows may not total due to rounding.
†Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥ 1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in <15 -foot class.
‡Alphabetized by genus; see species list, appendix 2.
§Unidentified hickories.
¶Includes cherries (except black cherry).
**Other species include noncommercial and unidentified species.

Table 44.—Wood and bark fresh weight of live trees on timberland by county and height class, east Oklahoma, 1993^a

County	Height class in feet [†] (from 1-foot stump to treetop)											
	All classes		<20		20-59		60-99		100-139		≥140	
	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]
-----Million pounds-----												
Adair	1,161.4	30,898.9	159.8	3,541.5	764.4	14,476.2	237.2	12,807.3	0.0	73.9	0.0	0.0
Atoka	5,837.0	25,028.8	659.6	4,824.3	4,725.7	13,653.1	451.7	6,365.6	0.0	185.8	0.0	0.0
Bryan	211.9	16,807.1	12.7	3,080.6	199.2	9,286.2	0.0	4,016.6	0.0	423.6	0.0	0.0
Cherokee	1,635.9	30,511.5	70.3	4,862.0	1,412.3	15,020.1	153.3	9,977.9	0.0	651.4	0.0	0.0
Choctaw	3,087.5	15,968.4	216.4	2,330.0	1,541.3	8,188.2	1,329.7	5,241.3	0.0	208.9	0.0	0.0
Coal	22.3	6,765.7	0.0	500.9	22.3	3,071.2	0.0	3,193.7	0.0	0.0	0.0	0.0
Delaware	730.4	21,331.9	231.0	3,784.1	445.4	10,480.9	54.0	6,975.6	0.0	91.3	0.0	0.0
Haskell	2,334.7	15,764.5	354.7	2,762.0	1,804.3	7,943.3	175.7	2,347.5	0.0	2,408.1	0.0	303.6
Latimer	11,540.0	18,522.3	1,099.5	5,202.6	8,699.1	12,622.0	1,741.3	697.7	0.0	0.0	0.0	0.0
LeFlore	28,474.9	50,783.8	3,114.5	12,148.9	18,978.1	27,917.5	6,382.3	10,717.4	0.0	0.0	0.0	0.0
McCurain	47,297.2	50,493.4	5,674.8	14,088.8	28,485.9	17,444.9	11,979.5	17,731.0	1,157.0	1,228.7	0.0	0.0
McIntosh	142.7	13,435.5	0.0	2,300.6	142.7	7,459.8	0.0	3,405.5	0.0	269.6	0.0	0.0
Mayes	691.8	15,835.5	0.0	1,684.8	522.4	7,634.1	169.4	6,086.1	0.0	430.5	0.0	0.0
Muskogee	66.9	12,843.6	35.8	1,821.9	31.2	7,336.8	0.0	3,604.6	0.0	80.3	0.0	0.0
Ottawa	0.0	5,850.7	0.0	1,227.6	0.0	2,260.3	0.0	2,362.9	0.0	0.0	0.0	0.0
Pittsburg	3,167.2	11,840.6	496.4	3,053.1	2,507.3	6,079.8	163.6	2,707.7	0.0	0.0	0.0	0.0
Pushmataha	39,041.7	43,443.1	5,636.5	13,215.5	26,377.8	27,168.2	7,027.3	3,059.4	0.0	0.0	0.0	0.0
Sequoyah	878.1	19,856.3	175.0	4,739.1	400.0	12,088.5	303.0	2,938.4	0.0	90.4	0.0	0.0
All counties	146,321.7	405,981.8	17,937.1	85,168.3	97,059.6	210,131.1	30,168.0	104,236.1	1,157.0	6,142.7	0.0	303.6

^aNumbers in columns and rows may not total due to rounding.

[†]Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in < 20-foot class.

[§]Softwood species.

[§]Hardwood species.

Table 45.—Wood and bark fresh weight of stems in live trees on timberland by county and height class, east Oklahoma, 1993*

County	Height class in feet† (from 1-foot stump to treetop)					
	All classes		<20		20–59	
	Soft†	Hard§	Soft†	Hard§	Soft†	Hard§
	----- Million pounds -----					
Adair	991.2	23,137.7	144.5	2,937.4	637.8	10,645.8
Atoka	4,948.5	18,473.2	594.9	3,933.6	3,961.6	9,823.4
Bryan	171.3	12,574.4	11.3	2,520.7	160.0	6,714.3
Cherokee	1,409.4	22,991.4	63.4	3,984.8	1,211.3	11,045.4
Choctaw	2,672.4	11,861.6	195.1	1,919.2	1,319.6	5,934.9
Coal	16.7	4,964.5	0.0	402.1	16.7	2,247.0
Delaware	611.1	15,835.0	207.1	3,128.9	357.8	7,654.0
Haskell	1,956.6	11,810.9	319.0	2,265.1	1,482.2	5,743.2
Latimer	9,846.1	13,719.3	986.6	4,273.9	7,336.6	8,926.6
Le Flore	23,964.6	37,644.1	2,805.5	9,935.9	15,595.1	1,522.8
McCurtain	38,708.5	38,192.7	5,088.6	11,736.1	22,269.6	12,416.0
McIntosh	93.0	10,058.3	0.0	1,880.2	93.0	5,511.7
Mayes	593.6	11,887.3	0.0	1,384.0	445.7	5,626.9
Muskogee	59.0	9,619.2	32.2	1,527.2	26.8	5,399.4
Ottawa	0.0	4,464.2	0.0	1,032.4	0.0	1,678.1
Pittsburg	2,718.8	8,816.1	447.9	2,474.4	2,129.8	4,399.8
Pushmataha	32,771.6	32,185.9	5,067.6	10,745.8	21,566.6	19,158.7
Sequoyah	758.8	14,817.2	158.5	3,903.1	336.7	8,735.5
All counties	122,291.3	303,052.9	16,122.2	69,984.6	78,946.8	151,407.6
					26,245.7	76,846.6
					976.7	4,583.9
					0.0	230.3

*Numbers in columns and rows may not total due to rounding.

†Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥ 1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in < 20-foot class.

§Softwood species.

§Hardwood species.

Table 46.—Wood and bark fresh weight of crowns in live trees on timberland by county and height class, east Oklahoma, 1993*

County	Height class in feet† (from 1-foot stump to treetop)									
	All classes		<20		20–59		60–99		100–139	
	Soft†	Hard§	Soft†	Hard§	Soft†	Hard§	Soft†	Hard§	Soft†	Hard§
----- Million pounds -----										
Adair	170.2	7,761.2	15.4	604.2	126.6	3,830.4	28.3	3,309.8	0.0	16.9
Atoka	888.5	6,555.6	64.7	890.6	764.1	3,829.7	59.7	1,762.7	0.0	72.5
Bryan	40.6	4,232.7	1.4	560.0	39.2	2,571.9	0.0	1,016.7	0.0	84.1
Cherokee	226.5	7,520.1	7.0	877.2	201.0	3,974.7	18.6	2,506.2	0.0	161.9
Choctaw	415.1	4,106.9	21.3	410.8	221.7	2,253.3	172.0	1,362.2	0.0	80.6
Coal	5.6	1,801.2	0.0	98.8	5.6	824.3	0.0	878.2	0.0	0.0
Delaware	119.3	5,496.9	23.9	655.1	87.6	2,826.9	7.8	1,995.7	0.0	19.2
Haskell	378.1	3,953.6	35.7	497.0	322.2	2,200.0	20.3	630.4	0.0	552.9
Latimer	1,693.9	4,803.0	112.9	928.7	1,362.5	3,695.5	218.4	178.9	0.0	0.0
LeFlore	4,510.3	13,139.7	309.0	2,213.0	3,383.0	8,170.6	818.4	2,756.1	0.0	0.0
McCurtain	8,588.7	12,300.7	586.2	2,352.7	6,216.3	5,028.9	1,605.8	4,550.7	180.3	368.4
McIntosh	49.7	3,377.2	0.0	420.5	49.7	1,948.1	0.0	932.6	0.0	76.1
Mayes	98.1	3,948.2	0.0	300.8	76.7	2,007.3	21.4	1,568.3	0.0	71.8
Muskogee	8.0	3,224.4	3.6	294.7	4.4	1,937.3	0.0	966.9	0.0	25.5
Ottawa	0.0	1,386.5	0.0	195.1	0.0	582.3	0.0	609.1	0.0	0.0
Pittsburg	448.4	3,024.5	48.4	578.7	377.5	1,680.0	22.4	765.8	0.0	0.0
Pushmataha	6,270.1	11,257.2	568.9	2,469.8	4,811.2	8,009.5	890.0	777.9	0.0	0.0
Sequoyah	119.2	5,039.1	16.6	836.0	63.4	3,553.0	39.3	821.3	0.0	28.9
All counties	24,030.3	102,928.8	1,814.9	15,183.7	18,112.8	58,723.5	3,922.4	27,389.5	180.3	1,558.8
										73.3

*Numbers in columns and rows may not total due to rounding.

†Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥ 1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in < 20-foot class.

‡Softwood species.

§Hardwood species.

Table 47.—Wood and bark dry weight of live trees on timberland by county and height class, east Oklahoma, 1993*

County	Height class in feet [†] (from 1-foot stump to treetop)					
	All classes		<20		20-59	
	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]
Adair	570.6	17,519.5	82.2	2,069.0	373.6	8,217.9
Atoka	2,878.6	14,595.6	342.1	2,830.1	2,316.9	7,976.4
Bryan	105.1	9,914.0	6.8	1,777.6	98.3	5,544.7
Cherokee	801.3	17,848.8	36.6	2,886.5	690.4	8,914.6
Choctaw	1,508.2	8,761.0	111.6	1,319.7	751.5	4,574.2
Coal	11.2	4,048.3	0.0	292.6	11.2	1,827.1
Delaware	365.5	12,462.2	119.9	2,183.6	219.3	6,247.2
Haskell	1,158.6	9,054.9	185.9	1,617.7	887.7	4,707.0
Latimer	5,673.7	11,095.7	571.2	3,092.3	4,258.3	7,612.7
Le Flore	14,042.4	29,425.0	1,607.2	7,082.6	9,343.5	16,306.9
McCurtain	23,598.4	28,381.0	2,926.3	8,033.7	14,255.0	9,920.0
McIntosh	71.8	7,831.9	0.0	1,332.7	71.8	4,431.6
Mayes	336.6	9,197.3	0.0	990.8	254.5	4,460.2
Muskogee	34.1	7,622.0	18.7	1,047.7	15.4	4,417.4
Ottawa	0.0	3,417.1	0.0	710.2	0.0	1,335.8
Pittsburg	1,565.5	6,987.6	256.9	1,811.8	1,229.0	3,610.4
Pushmataha	19,313.9	25,563.7	2,911.6	7,814.7	12,995.2	16,087.2
Sequoyah	432.1	11,571.1	89.5	2,774.1	195.7	7,140.8
All counties	72,467.9	235,296.7	9,266.4	49,667.3	47,967.4	123,332.1
					14,672.0	58,969.0
					562.0	3,179.0
					0.0	149.3

*Numbers in columns and rows may not total due to rounding.

[†]Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥ 1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in < 20 -foot class.[‡]Softwood species.[§]Hardwood species.

Table 48.—Wood and bark dry weight of stems in live trees on timberland by county and height class, east Oklahoma, 1993*

County	Height class in feet† (from 1-foot stump to treetop)									
	All classes		<20		20–59		60–99		100–139	
	Soft†	Hard§	Soft†	Hard§	Soft†	Hard§	Soft†	Hard§	Soft†	Hard§
----- Million pounds -----										
Adair	496.1	13,150.9	77.2	1,899.3	316.9	5,983.3	101.9	5,230.7	0.0	37.5
Atoka	2,485.0	10,914.6	321.6	2,599.3	1,971.3	5,671.8	192.1	2,586.3	0.0	57.2
Bryan	87.4	7,451.9	6.4	1,633.2	81.0	3,939.6	0.0	1,719.3	0.0	0.0
Cherokee	699.7	13,570.5	34.4	2,646.2	599.5	6,499.0	65.8	4,174.5	0.0	250.9
Choctaw	1,322.7	6,533.5	104.9	1,207.0	651.5	3,259.8	566.2	1,997.5	0.0	69.3
Coal	8.7	2,950.7	0.0	266.0	8.7	1,325.4	0.0	1,359.2	0.0	0.0
Delaware	314.8	9,365.9	112.0	2,005.4	180.0	4,528.4	22.7	2,792.2	0.0	39.9
Haskell	992.2	6,859.8	174.7	1,481.0	741.7	3,370.4	75.8	980.3	0.0	112.8
Latimer	4,925.1	8,474.0	534.6	2,838.8	3,646.0	5,351.4	744.5	283.9	0.0	0.0
Le Flore	12,037.2	22,350.4	1,510.8	6,501.0	7,808.5	11,451.7	2,718.0	4,397.7	0.0	0.0
McCurtain	19,688.2	21,956.6	2,745.8	7,388.6	11,371.8	7,003.4	5,096.2	7,117.2	474.4	447.4
McIntosh	49.3	5,905.5	0.0	1,221.5	49.3	3,225.1	0.0	1,366.5	0.0	92.3
Mayes	292.6	6,912.5	0.0	908.8	220.3	3,258.6	72.3	2,556.2	0.0	189.0
Muskogee	30.8	5,723.5	17.6	954.3	13.3	3,226.9	0.0	1,512.2	0.0	30.1
Ottawa	0.0	2,629.9	0.0	653.4	0.0	980.6	0.0	995.9	0.0	0.0
Pittsburg	1,369.9	5,353.7	241.5	1,660.1	1,059.2	2,596.3	69.2	1,097.2	0.0	0.0
Pushmataha	16,539.6	19,663.5	2,731.5	7,162.6	10,808.0	11,283.4	3,000.1	1,217.5	0.0	0.0
Sequoyah	380.3	8,833.1	84.1	2,548.1	167.3	5,126.2	128.9	1,127.4	0.0	31.5
All counties	61,719.6	178,600.4	8,697.1	45,574.6	39,694.2	88,081.0	12,853.9	42,511.8	474.4	2,320.2
									0.0	112.8

*Numbers in columns and rows may not total due to rounding.

†Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥ 1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in < 20-foot class.

‡Softwood species.

§Hardwood species.

Table 49.—Wood and bark dry weight of crowns in live trees on timberland by county and height class, east Oklahoma, 1993*

County	All classes				<20				20-59				60-99				100-139				≥140			
	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]
Height class in feet [†] (from 1-foot stump to treetop)																								
----- Million pounds -----																								
Adair	74.6	4,368.6	4.9	169.7	56.8	2,234.6	12.9	1,947.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Atoka	393.7	3,681.0	20.5	230.8	345.6	2,304.6	27.5	1,103.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bryan	17.8	2,462.1	0.4	144.4	17.4	1,605.1	0.0	670.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cherokee	101.6	4,278.3	2.2	240.4	90.9	2,415.7	8.5	1,529.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Choctaw	185.5	2,227.5	6.7	112.7	100.0	1,314.4	78.9	754.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	2.5	1,097.7	0.0	26.6	2.5	501.7	0.0	569.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delaware	50.8	3,096.3	7.9	178.1	39.3	1,718.8	3.6	1,187.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Haskell	166.4	2,195.1	11.2	136.7	146.1	1,336.6	9.2	408.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Latimer	748.6	2,621.6	36.6	253.5	612.3	2,261.4	99.7	1,068	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LeFlore	2,005.2	7,074.6	96.4	581.6	1,535.1	4,855.2	373.7	1,637.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
McCurtain	3,910.2	6,424.5	180.5	645.2	2,883.2	2,916.6	758.8	2,648.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
McIntosh	22.5	1,926.4	0.0	111.1	22.5	1,206.6	0.0	565.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mayes	44.0	2,284.8	0.0	82.0	34.2	1,201.6	9.8	958.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Muskogee	3.3	1,898.5	1.1	93.4	2.2	1,190.5	0.0	599.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ottawa	0.0	787.2	0.0	56.8	0.0	355.2	0.0	375.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pittsburg	195.6	1,634.0	15.4	151.6	169.8	1,014.1	10.4	468.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pushmataha	2,774.3	5,900.2	180.1	652.1	2,187.2	4,803.8	407.0	444.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sequoyah	51.8	2,738.0	5.4	226.0	28.4	2,014.6	18.1	480.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All counties	10,748.3	56,696.2	569.3	4,092.7	8,273.2	35,251.0	1,818.1	16,457.2	87.7	858.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*Numbers in columns and rows may not total due to rounding.

†Heights measured only on trees ≥ 5.0 inches in d.b.h. All trees ≥ 1.0 inch in d.b.h. but < 5.0 inches in d.b.h. are placed in < 20-foot class.

‡Softwood species.

§Hardwood species.

Table 50.—Wood and bark fresh weight of trees on timberland by county and tree class, east Oklahoma, 1993*

County	All trees				Tree class									
	Soft [§]		Hard [¶]		Growing stock [†]		Rough and rotten [†]		Salvable dead [†]		Nonsalvable dead [†]		Sapling [†]	
	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]
----- Million pounds-----														
Adair	1,396.0	33,883.3	1,001.6	15,972.9	0.0	11,404.3	0.0	120.1	261.8	0.0	2,440.5	274.3	3,803.7	
Atoka	6,003.0	27,232.9	4,883.5	11,873.7	294.0	8,349.5	58.7	59.5	58.7	46.2	1,428.8	720.7	5,521.4	
Bryan	211.9	17,594.3	125.6	5,810.9	73.6	7,924.3	0.0	101.7	0.0	0.0	570.1	12.7	3,187.3	
Cherokee	1,664.2	34,087.4	1,507.5	17,519.9	58.0	8,181.9	0.0	287.2	0.0	0.0	2,348.6	98.6	5,749.9	
Choctaw	3,241.9	17,583.8	2,833.9	8,520.7	37.2	5,150.9	0.0	37.7	45.7	1,344.8	325.1	2,529.7		
Coal	22.3	7,500.0	22.3	3,069.6	0.0	3,211.3	0.0	168.5	0.0	0.0	558.4	0.0	492.2	
Delaware	844.5	23,612.9	476.8	9,630.3	36.7	7,942.2	0.0	0.0	68.1	1,547.4	262.9	4,493.0		
Haskell	2,379.0	18,387.0	1,980.0	8,568.2	0.0	4,481.6	0.0	0.0	30.7	2,303.5	368.4	3,033.7		
Latimer	12,223.7	19,756.8	10,196.7	5,807.3	256.5	7,556.0	50.7	0.0	211.6	994.6	1,508.1	5,398.9		
Le Flore	29,220.6	54,826.4	24,523.7	23,228.6	836.8	15,493.3	0.0	0.0	185.3	2,666.9	3,674.8	13,437.6		
McCurtain	49,214.2	55,220.7	40,024.0	28,849.3	1,621.3	7,586.0	193.2	150.5	513.1	2,339.5	6,862.7	16,295.4		
McIntosh	142.7	14,518.2	142.7	5,829.8	0.0	5,330.2	0.0	112.4	0.0	841.8	0.0	2,403.9		
Mayes	738.7	17,554.1	642.2	8,209.0	49.6	5,958.6	0.0	0.0	46.9	1,215.7	0.0	2,170.7		
Muskogee	66.9	14,563.7	31.2	7,571.0	0.0	3,496.5	0.0	0.0	0.0	1,396.0	35.8	2,100.3		
Ottawa	0.0	6,463.1	0.0	2,645.5	0.0	1,977.6	0.0	0.0	0.0	428.7	0.0	1,411.3		
Pittsburg	3,391.6	13,899.8	2,576.5	3,931.7	94.4	4,913.7	0.0	0.0	60.9	1,773.8	659.9	3,280.6		
Pushmataha	40,578.3	45,540.5	32,601.5	16,304.5	842.4	14,092.6	83.8	0.0	528.0	1,355.2	6,522.5	13,788.2		
Sequoyah	878.1	21,296.9	690.5	8,863.7	12.5	6,281.0	0.0	120.6	0.0	917.9	175.0	5,113.6		
All counties	152,217.6	443,521.9	124,260.2	192,206.7	4,212.9	129,331.6	506.5	1,300.0	1,736.4	26,472.2	21,501.5	94,211.4		

*Numbers in columns and rows may not total due to rounding.

†Includes trees ≥ 5.0 inches in d.b.h.

‡Includes growing-stock, rough and rotten, and nonsalvable dead trees ≥1.0 and < 5.0 inches in d.b.h.

§Softwood species.

¶Hardwood species.

Table 51.—Wood and bark fresh weight of stems in trees on timberland by county and tree class, east Oklahoma, 1993*

County	All trees			Growing stock [†]				Rough and rotten [†]				Tree class				Nonsalvage dead [†]				Sapling [‡]	
	Soft [§]	Hard [¶]		Soft [§]	Hard [¶]		Soft [§]	Hard [¶]		Soft [§]	Hard [¶]		Soft [§]	Hard [¶]		Soft [§]	Hard [¶]	Soft [§]	Hard [¶]		
-----Million pounds-----																					
Adair	1,199.5	25,443.7		846.7	12,009.0		0.0	8,202.4		105.6	194.1		0.0	1,868.2		247.2		3,169.9			
Atoka	5,095.6	20,238.8		4,115.0	8,629.6		238.6	5,921.5		51.3	45.9		41.0	1,131.5		649.7		4,510.3			
Bryan	171.3	13,160.2		97.1	4,280.6		62.9	5,778.7		0.0	83.1		0.0	412.3		11.3		2,605.6			
Cherokee	1,434.8	25,770.2		1,296.2	13,056.9		49.9	5,981.7		0.0	218.1		0.0	1,783.7		88.8		4,729.8			
Choctaw	2,810.9	13,101.4		2,445.7	6,288.0		31.6	3,672.6		0.0	30.4		40.6	1,011.0		293.0		2,099.4			
Coal	16.7	5,528.8		16.7	2,236.1		0.0	2,335.9		0.0	134.8		0.0	423.1		0.0		398.8			
Delaware	710.8	17,588.2		388.3	7,086.9		27.3	5,636.3		0.0	0.0		58.1	1,138.8		237.0		3,726.2			
Haskell	1,989.1	13,863.9		1,637.5	6,311.9		0.0	3,265.0		0.0	0.0		20.3	1,791.7		331.3		2,495.3			
Latimer	10,452.6	14,658.3		8,656.1	4,044.9		210.3	5,430.4		44.5	0.0		182.0	738.0		1,359.6		4,445.0			
Le Flore	24,616.3	40,793.5		20,472.7	16,851.2		686.4	10,910.5		0.0	0.0		145.6	2,005.2		3,311.6		11,026.6			
McCurtain	40,393.9	41,908.9		32,408.2	21,111.4		1,222.8	5,363.4		166.3	115.7		432.9	1,731.6		6,163.7		13,587.0			
McIntosh	93.0	10,870.2		93.0	4,383.1		0.0	3,810.9		0.0	74.5		0.0	630.7		0.0		1,970.9			
Mayes	634.4	13,219.0		563.6	6,177.1		30.1	4,337.3		0.0	0.0		40.7	904.7		0.0		1,799.9			
Muskogee	59.0	10,953.8		26.8	5,592.2		0.0	2,525.1		0.0	0.0		0.0	1,066.1		32.2		1,770.5			
Ottawa	0.0	4,949.4		0.0	2,006.5		0.0	1,425.3		0.0	0.0		0.0	321.8		0.0		1,195.8			
Pittsburg	2,919.6	10,432.8		2,189.5	2,836.8		81.4	3,546.9		0.0	0.0		53.3	1,375.2		595.4		2,673.9			
Pushmataha	34,100.6	33,777.1		27,034.4	11,537.3		694.1	10,013.7		69.5	0.0		426.1	975.1		5,876.4		11,251.0			
Sequoyah	758.8	15,925.8		590.9	6,425.4		9.5	4,507.4		0.0	85.5		0.0	698.6		158.5		4,208.9			
All counties	127,457.0	332,183.7		102,878.5	140,865.0		3,344.7	92,664.8		437.3	982.0		1,440.7	20,007.2		19,355.8		77,664.7			

*Numbers in columns and rows may not total due to rounding.

†Includes trees ≥ 5.0 inches in d.b.h.‡Includes growing-stock, rough and rotten, and nonsalvage dead trees ≥ 1.0 and < 5.0 inches in d.b.h.

§Softwood species.

¶Hardwood species.

Table 52.—Wood and bark fresh weight of crowns in trees on timberland by county and tree class, east Oklahoma, 1993*

County	All trees				Tree class											
	Growing stock [†]		Rough and rotten [†]		Salvageable dead [†]				Nonsalvageable dead [†]				Sapling [†]			
	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]
----- Million pounds -----																
Adair	196.5	8,439.6	154.9	3,963.9	0.0	3,201.9	14.5	67.8	0.0	572.3	0.0	572.3	27.1	633.8	0.0	633.8
Atoka	907.4	6,994.1	768.5	3,244.1	55.4	2,428.0	7.4	13.6	5.2	297.3	5.2	297.3	71.0	1,011.1	5.2	1,011.1
Bryan	40.6	4,434.1	28.5	1,530.3	10.7	2,145.6	0.0	18.7	0.0	157.8	0.0	157.8	1.4	581.7	0.0	581.7
Cherokee	229.3	8,317.2	211.4	4,463.0	8.2	2,200.2	0.0	69.1	0.0	564.9	0.0	564.9	9.8	1,020.1	0.0	1,020.1
Choctaw	430.9	4,482.4	388.2	2,232.7	5.6	1,478.3	0.0	7.3	5.1	333.8	5.1	333.8	32.0	430.3	5.1	430.3
Coal	5.6	1,971.2	5.6	833.5	0.0	875.4	0.0	33.7	0.0	135.3	0.0	135.3	0.0	93.4	0.0	93.4
Delaware	133.7	6,024.7	88.5	2,543.4	9.4	2,305.9	0.0	0.0	10.0	408.6	10.0	408.6	25.9	766.9	10.0	766.9
Haskell	389.9	4,523.1	342.4	2,256.3	0.0	1,216.6	0.0	0.0	10.4	511.8	10.4	511.8	37.1	538.4	10.4	538.4
Latimer	1,771.1	5,098.6	1,540.6	1,762.4	46.2	2,125.6	6.2	0.0	29.5	256.6	29.5	256.6	148.5	953.9	29.5	953.9
LeFlore	4,604.3	14,032.9	4,051.0	6,377.4	150.4	4,582.8	0.0	0.0	39.7	661.7	39.7	661.7	363.2	2,411.1	39.7	2,411.1
McCurtain	8,820.3	13,311.8	7,615.7	7,737.9	398.6	2,222.7	26.8	34.9	80.2	608.0	80.2	608.0	698.9	2,708.4	80.2	2,708.4
McIntosh	49.7	3,648.0	49.7	1,446.8	0.0	1,519.3	0.0	37.9	0.0	211.0	0.0	211.0	0.0	433.0	0.0	433.0
Mayes	104.3	4,335.1	78.6	2,031.9	19.5	1,621.4	0.0	0.0	6.2	311.0	6.2	311.0	0.0	370.8	6.2	370.8
Muskogee	8.0	3,609.9	4.4	1,978.8	0.0	971.4	0.0	0.0	0.0	329.9	0.0	329.9	3.6	329.8	0.0	329.8
Ottawa	0.0	1,513.7	0.0	639.0	0.0	552.4	0.0	0.0	0.0	106.8	0.0	106.8	0.0	215.5	0.0	215.5
Pittsburg	472.0	3,467.0	387.0	1,094.9	13.0	1,366.8	0.0	0.0	7.6	398.6	7.6	398.6	64.5	606.7	7.6	606.7
Pushmataha	6,477.7	11,763.4	5,567.1	4,767.1	148.3	4,079.0	14.3	0.0	101.8	380.1	101.8	380.1	646.2	2,537.2	101.8	2,537.2
Sequoyah	119.2	5,371.1	99.6	2,438.3	3.1	1,773.6	0.0	35.1	0.0	219.4	0.0	219.4	16.6	904.8	0.0	904.8
All counties	24,760.6	111,338.2	21,381.6	51,341.6	868.2	36,666.8	69.2	318.1	295.8	6,465.0	295.8	6,465.0	2,145.8	16,546.7	295.8	16,546.7

*Numbers in columns and rows may not total due to rounding.

[†]Includes trees ≥ 5.0 inches in d.b.h.

[‡]Includes growing-stock, rough and rotten, and nonsalvageable dead trees ≥ 1.0 and < 5.0 inches in d.b.h.

[§]Softwood species.

[¶]Hardwood species.

Table 53.—Wood and bark dry weight of trees on timberland by county and tree class, east Oklahoma, 1993*

County	All trees		Growing stock †				Rough and rotten †				Tree class				Nonsalvable dead †		Sapling ‡	
	Soft §	Hard ¶	Growing stock †		Rough and rotten †		Salvable dead †		Nonsalvable dead †		Sapling ‡							
			Soft §	Hard ¶	Soft §	Hard ¶	Soft §	Hard ¶	Soft §	Hard ¶	Soft §	Hard ¶						
													-----Million pounds-----					
Adair	689.2	19,271.8	488.5	8,870.3	0.0	6,591.6	58.1	148.9	0.0	1,438.5	142.6	2,222.5						
Atoka	2,961.7	15,872.4	2,391.5	6,876.2	145.1	4,902.1	28.5	39.5	22.2	825.8	374.4	3,228.9						
Bryan	105.1	10,359.3	62.2	3,439.9	36.1	4,702.8	0.0	52.1	0.0	324.3	6.8	1,840.2						
Cherokee	816.1	19,949.0	736.4	10,134.9	28.3	4,858.1	0.0	181.5	0.0	1,361.5	51.4	3,413.0						
Choctaw	1,586.7	9,695.4	1,378.4	4,538.1	18.1	2,922.4	0.0	18.0	22.1	780.7	168.1	1,436.4						
Coal	11.2	4,474.7	11.2	1,858.7	0.0	1,907.0	0.0	98.0	0.0	324.1	0.0	286.8						
Delaware	422.4	13,797.0	234.3	5,589.9	18.4	4,704.1	0.0	0.0	33.2	903.0	136.5	2,600.0						
Haskell	1,181.1	10,459.3	972.7	4,816.1	0.0	2,650.0	0.0	0.0	15.2	1,220.1	193.2	1,773.1						
Latimer	6,019.8	11,820.1	4,982.7	3,486.7	126.4	4,543.2	24.6	0.0	102.8	581.1	783.4	3,209.1						
Le Flore	14,421.7	31,768.1	12,021.7	13,277.6	413.5	9,117.1	0.0	0.0	90.7	1,532.8	1,895.7	7,840.6						
McCurtain	24,569.7	31,161.0	19,866.7	16,031.8	817.1	4,323.0	94.6	93.6	250.5	1,380.5	3,540.8	9,332.0						
McIntosh	71.8	8,461.3	71.8	3,348.9	0.0	3,166.1	0.0	70.6	0.0	482.0	0.0	1,393.8						
Mayes	359.3	10,190.2	311.7	4,761.2	24.9	3,455.8	0.0	0.0	22.7	698.9	0.0	1,274.3						
Muskogee	34.1	8,615.8	15.4	4,544.4	0.0	2,056.4	0.0	0.0	0.0	804.0	18.7	1,211.0						
Ottawa	0.0	3,773.1	0.0	1,538.0	0.0	1,168.9	0.0	0.0	0.0	248.7	0.0	817.5						
Pittsburg	1,680.0	8,172.4	1,262.4	2,304.5	46.3	2,906.4	0.0	0.0	29.5	1,021.1	341.8	1,940.4						
Pushmataha	20,092.6	26,823.7	16,006.2	9,477.0	415.9	8,375.1	40.9	0.0	257.7	813.7	3,371.9	8,157.8						
Sequoyah	432.1	12,390.4	336.5	5,151.6	6.1	3,662.1	0.0	72.7	0.0	508.6	89.5	2,995.5						
All counties	75,454.7	257,054.9	61,150.3	110,045.6	2,096.2	76,012.3	246.6	774.9	846.7	15,249.3	11,114.8	54,972.8						

*Numbers in columns and rows may not total due to rounding.

†Includes trees ≥ 5.0 inches in d.b.h.‡Includes growing-stock, rough and rotten, and nonsalvable dead trees ≥ 1.0 and < 5.0 inches in d.b.h.

§Softwood species.

¶Hardwood species.

Table 54.—Wood and bark dry weight of stems in trees on timberland by county and tree class, east Oklahoma, 1993*

County	All trees		Growing stock [†]		Rough and rotten [†]		Salvage dead [†]		Nonsalvage dead [†]		Sapling [†]	
	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]	Soft [§]	Hard [¶]
Adair	604.5	14,506.1	418.8	6,573.7	0.0	4,684.2	51.6	109.8	0.0	1,093.7	134.1	2,044.7
Atoka	2,560.4	11,977.0	2,044.0	4,882.5	119.4	3,440.2	25.1	30.6	20.0	653.1	351.9	2,970.6
Bryan	87.4	7,792.7	49.5	2,461.3	31.4	3,361.0	0.0	42.7	0.0	234.7	6.4	1,693.0
Cherokee	713.6	15,251.8	640.7	7,430.2	24.6	3,513.0	0.0	144.6	0.0	1,024.1	48.3	3,139.9
Choctaw	1,395.5	7,253.7	1,202.1	3,292.5	15.6	2,044.5	0.0	14.5	19.8	580.8	158.0	1,321.4
Coal	8.7	3,276.4	8.7	1,320.5	0.0	1,370.2	0.0	78.6	0.0	243.3	0.0	263.9
Delaware	365.6	10,422.1	194.5	4,064.3	14.2	3,306.8	0.0	0.0	28.5	659.0	128.3	2,392.0
Haskell	1,009.7	7,971.8	817.5	3,487.9	0.0	1,910.2	0.0	0.0	10.7	942.5	181.6	1,631.3
Latimer	5,242.1	9,032.1	4,288.6	2,412.7	105.7	3,240.9	21.7	0.0	89.6	426.1	736.4	2,952.4
Le Flore	12,381.6	24,242.9	10,181.8	9,515.4	344.6	6,367.1	0.0	0.0	73.2	1,147.0	1,782.0	7,213.3
McCurain	20,572.8	24,243.7	16,317.7	11,554.1	630.9	3,018.4	81.8	71.9	214.0	1,013.9	3,328.4	8,585.5
McIntosh	49.3	6,380.5	49.3	2,463.7	0.0	2,230.2	0.0	46.2	0.0	358.1	0.0	1,282.3
Mayes	312.7	7,704.7	276.5	3,535.5	16.1	2,475.1	0.0	0.0	20.0	521.7	0.0	1,172.3
Muskogee	30.8	6,509.7	13.3	3,313.0	0.0	1,470.9	0.0	0.0	0.0	611.6	17.6	1,114.1
Ottawa	0.0	2,913.2	0.0	1,150.5	0.0	826.0	0.0	0.0	0.0	184.5	0.0	752.1
Pittsburg	1,475.7	6,289.6	1,088.2	1,635.1	40.3	2,083.9	0.0	0.0	26.0	785.3	321.3	1,785.2
Pushmataha	17,237.0	20,656.5	13,473.2	6,658.6	348.1	5,910.3	34.5	0.0	211.6	582.5	3,169.6	7,505.1
Sequoyah	380.3	9,484.8	291.4	3,696.8	4.8	2,599.4	0.0	51.6	0.0	381.1	84.1	2,755.8
All counties	64,427.6	195,909.2	51,355.8	79,448.3	1,695.7	53,852.4	214.7	590.3	713.3	11,443.2	10,447.9	50,575.0

*Numbers in columns and rows may not total due to rounding.

†Includes trees ≥ 5.0 inches in d.b.h.

‡Includes growing-stock, rough and rotten, and nonsalvageable dead trees ≥1.0 and < 5.0 inches in d.b.h.

§Softwood species.

¶Hardwood species.

Table 55.—Wood and bark dry weight of crowns in trees on timberland by county and tree class, east Oklahoma, 1993*

County	All trees		Tree class				Nonsalvable dead †				Sapling ‡	
	Soft §	Hard ¶	Growing stock †		Rough and rotten †		Salvable dead †		Hard ¶		Soft §	Hard ¶
			Soft §	Hard ¶	Soft §	Hard ¶	Soft §	Hard ¶	Soft §	Hard ¶		
-----Million pounds-----												
Adair	84.7	4,765.7	69.7	2,296.6	0.0	1,907.4	6.5	39.1	0.0	344.8	8.6	177.8
Atoka	401.3	3,895.4	347.5	1,993.6	25.7	1,461.9	3.4	8.9	2.3	172.6	22.5	258.3
Bryan	17.8	2,566.6	12.7	978.7	4.7	1,341.7	0.0	9.5	0.0	89.5	0.4	147.2
Cherokee	102.5	4,697.2	95.7	2,704.7	3.6	1,345.1	0.0	37.0	0.0	337.4	3.1	273.0
Choctaw	191.3	2,441.7	176.3	1,245.6	2.5	877.9	0.0	3.5	2.4	199.8	10.1	114.9
Coal	2.5	1,198.3	2.5	538.2	0.0	536.9	0.0	19.4	0.0	80.9	0.0	22.9
Delaware	56.8	3,374.9	39.8	1,525.5	4.2	1,397.3	0.0	0.0	4.7	244.1	8.2	208.0
Haskell	171.4	2,487.5	155.2	1,328.3	0.0	739.7	0.0	0.0	4.6	277.6	11.6	141.8
Latimer	777.7	2,788.1	694.0	1,074.0	20.7	1,302.4	2.9	0.0	13.2	155.0	47.0	256.7
Le Flore	2,040.1	7,525.2	1,839.9	3,762.2	68.9	2,749.9	0.0	0.0	17.6	385.8	113.7	627.2
McCurtain	3,996.9	6,917.3	3,549.0	4,477.8	186.2	1,304.6	12.7	21.7	36.4	366.6	212.5	746.6
McIntosh	22.5	2,080.8	22.5	885.2	0.0	935.9	0.0	24.4	0.0	123.8	0.0	111.5
Mayes	46.7	2,485.5	35.2	1,225.7	8.8	980.7	0.0	0.0	2.7	177.2	0.0	101.9
Muskogee	3.3	2,106.1	2.2	1,231.4	0.0	585.5	0.0	0.0	0.0	192.4	1.1	96.9
Ottawa	0.0	859.9	0.0	387.4	0.0	342.9	0.0	0.0	0.0	64.2	0.0	65.4
Pittsburg	204.2	1,882.9	174.2	669.4	6.0	822.5	0.0	0.0	3.5	235.8	20.5	155.2
Pushmataha	2,855.6	6,167.1	2,533.0	2,818.4	67.8	2,464.9	6.4	0.0	46.1	231.3	202.3	652.6
Sequoyah	51.8	2,905.6	45.1	1,454.7	1.3	1,062.7	0.0	21.1	0.0	127.4	5.4	239.6
All counties	11,027.1	61,145.7	9,794.5	30,597.2	400.5	22,159.9	31.9	184.6	133.4	3,806.1	666.9	4,397.8

*Numbers in columns and rows may not total due to rounding.

†Includes trees ≥ 5.0 inches in d.b.h.

‡Includes growing-stock, rough and rotten, and nonsalvable dead trees ≥ 1.0 and < 5.0 inches in d.b.h.

§Softwood species.

¶Hardwood species.

Table 56.—Wood and bark fresh weight of live trees on timberland by county and basal area class, east Oklahoma, 1993*

County	All classes				Basal area class† (Square feet per acre)											
	<30		30-59		60-89		90-119		120-149		≥150					
	Soft†	Hard§	Soft†	Hard§	Soft†	Hard§	Soft†	Hard§	Soft†	Hard§	Soft†	Hard§				
----- Million pounds -----																
Adair	1,161.4	30,898.9	0.0	0.0	95.3	2,641.2	350.4	13,300.9	715.7	12,654.9	0.0	2,301.9	0.0	0.0		
Atoka	5,837.0	25,028.8	72.1	557.2	805.0	4,340.6	597.7	10,828.0	3,497.8	5,901.2	864.4	3,401.7	0.0	0.0		
Bryan	211.9	16,807.1	0.0	0.0	0.0	2,499.6	0.0	5,310.8	200.7	6,246.7	11.2	2,750.0	0.0	0.0		
Cherokee	1,635.9	30,511.5	0.0	286.3	96.2	4,298.7	0.0	10,271.0	1,471.9	11,612.7	67.8	4,042.8	0.0	0.0		
Choctaw	3,087.5	15,968.4	126.6	838.5	246.2	4,287.0	1,006.3	6,973.6	1,708.4	2,248.0	0.0	1,621.3	0.0	0.0		
Coal	22.3	6,765.7	0.0	114.6	22.3	517.7	0.0	2,507.4	0.0	1,553.0	0.0	2,073.1	0.0	0.0		
Delaware	730.4	21,331.9	0.0	392.1	76.6	4,531.8	471.3	9,895.3	182.5	6,512.8	0.0	0.0	0.0	0.0		
Haskell	2,334.7	15,764.5	66.4	402.5	152.8	1,030.7	139.8	6,043.0	1,498.8	3,343.8	477.0	4,944.5	0.0	0.0		
Latimer	11,540.0	18,522.3	83.6	268.0	978.8	2,352.4	2,098.0	8,212.0	3,558.3	5,437.2	2,788.8	1,790.1	2,032.6	462.5		
Le Flore	28,474.9	50,783.8	272.0	505.2	1,211.2	5,876.3	6,408.7	15,607.7	9,266.4	18,902.3	8,693.5	9,006.1	2,623.1	886.3		
McCurtain	47,297.2	50,493.4	497.2	698.4	5,890.7	5,695.8	14,857.9	16,523.2	13,507.2	17,875.2	9,029.8	9,246.6	3,514.4	454.3		
McIntosh	142.7	13,435.5	0.0	261.7	79.8	3,236.5	19.8	3,941.9	43.2	3,724.1	0.0	2,271.3	0.0	0.0		
Mayes	691.8	15,835.5	0.0	161.1	0.0	1,522.2	0.0	5,389.3	691.8	8,762.9	0.0	0.0	0.0	0.0		
Muskogee	66.9	12,843.6	0.0	43.7	31.2	2,508.1	35.8	4,663.4	0.0	4,715.6	0.0	912.8	0.0	0.0		
Ottawa	0.0	5,850.7	0.0	0.0	0.0	806.5	0.0	3,483.6	0.0	752.6	0.0	808.0	0.0	0.0		
Pittsburg	3,167.2	11,840.6	84.3	487.5	299.4	1,865.5	1,367.3	8,817.5	967.9	127.4	448.3	542.7	0.0	0.0		
Pushmataha	39,041.7	43,443.1	224.3	319.3	5,074.9	5,067.7	8,396.1	15,779.7	12,758.0	13,613.6	8,182.9	5,652.9	4,405.5	3,009.9		
Sequoyah	878.1	19,856.3	0.0	335.6	78.2	4,593.7	799.8	8,434.0	0.0	6,493.1	0.0	0.0	0.0	0.0		
All counties	146,321.7	405,981.8	1,426.5	5,671.6	15,138.6	57,671.9	36,549.1	155,982.1	50,068.4	130,477.2	30,563.6	51,365.9	12,575.5	4,813.0		

*Numbers in columns and rows may not total due to rounding.

†Based upon all live trees ≥1.0 inch in d.b.h.

‡Softwood species.

§Hardwood species.

Table 57.—Wood and bark fresh weight of stems in live trees on timberland by county and basal area class, east Oklahoma, 1993*

County	All classes						Basal area class [†] (Square feet per acre)													
	<30		30-59		60-89		90-119		120-149		≥150		----- Million pounds -----							
	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]
Adair	991.2	23,137.7	0.0	0.0	85.0	2,020.9	307.9	9,939.5	598.3	9,529.2	0.0	1,648.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Atoka	4,948.5	18,473.2	50.0	421.1	684.4	3,178.7	509.7	8,043.6	2,961.3	4,345.9	743.1	2,483.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bryan	171.3	12,574.4	0.0	0.0	0.0	1,869.0	0.0	4,021.7	161.3	4,582.9	10.0	2,100.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cherokee	1,409.4	22,991.4	0.0	226.3	72.8	3,296.4	0.0	7,744.9	1,277.8	8,651.3	58.8	3,072.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Choctaw	2,672.4	11,861.6	103.6	668.6	211.6	3,265.6	868.8	5,114.4	1,488.4	1,629.8	0.0	1,183.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coal	16.7	4,964.5	0.0	78.7	16.7	398.9	0.0	1,855.1	0.0	1,172.4	0.0	1,459.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delaware	611.1	15,835.0	0.0	309.9	66.7	3,310.5	385.2	7,384.3	159.1	4,830.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Haskell	1,956.6	11,810.9	56.9	309.5	129.4	793.9	116.6	4,457.6	1,256.5	2,444.7	397.2	3,805.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Latimer	9,846.1	13,719.3	74.3	197.0	831.4	1,720.6	1,798.5	6,064.7	3,006.2	4,055.1	2,381.9	1,315.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Le Flore	23,964.6	37,644.1	227.4	391.9	986.2	4,419.7	5,337.4	11,554.9	7,748.2	13,976.5	7,404.7	6,626.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
McCurra	38,708.5	38,192.7	415.5	512.0	4,777.6	4,353.6	12,288.9	12,703.6	10,862.8	13,384.3	7,524.6	6,897.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
McIntosh	93.0	10,058.3	0.0	184.7	51.0	2,386.3	10.2	2,986.5	31.9	2,798.7	0.0	1,702.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mayes	593.6	11,887.3	0.0	116.6	0.0	1,143.1	0.0	4,046.0	593.6	6,581.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Muskogee	59.0	9,619.2	0.0	30.8	26.8	1,920.5	32.2	3,464.8	0.0	3,479.9	0.0	723.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ottawa	0.0	4,464.2	0.0	0.0	0.0	617.5	0.0	2,651.9	0.0	549.8	0.0	645.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pittsburg	2,718.8	8,816.1	73.9	364.0	264.4	1,352.4	1,172.8	6,569.1	838.6	102.6	369.2	428.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pushmataha	32,771.6	32,185.9	184.2	249.5	4,237.3	3,755.4	6,968.0	11,619.7	10,670.3	10,103.7	6,997.7	4,133.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sequoyah	758.8	14,817.2	0.0	266.6	69.4	3,408.7	689.5	6,319.6	0.0	4,822.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All counties	122,291.3	303,052.9	1,185.7	4,327.5	12,510.9	43,211.7	30,485.7	116,541.9	41,654.4	97,041.1	25,887.2	38,224.4	10,567.5	3,706.4	0.0	0.0	0.0	0.0	0.0	0.0

*Numbers in columns and rows may not total due to rounding.

[†]Based upon all live trees ≥1.0 inch in d.b.h.[‡]Softwood species.[§]Hardwood species.

Table 58.—Wood and bark fresh weight of crowns in live trees on timberland by county and basal area class, east Oklahoma, 1993*

County	All classes				Basal area class [†] (Square feet per acre)									
	<30		30-59		60-89		90-119		120-149		≥150			
	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]		
-----Million pounds-----														
Adair	170.2	7,761.2	0.0	0.0	10.3	620.3	42.5	3,361.5	117.4	3,125.8	0.0	653.7	0.0	0.0
Atoka	888.5	6,555.6	22.1	136.1	120.6	1,161.9	88.0	2,784.3	536.4	1,555.3	121.3	918.0	0.0	0.0
Bryan	40.6	4,232.7	0.0	0.0	0.0	630.6	0.0	1,289.1	39.4	1,663.8	1.2	649.3	0.0	0.0
Cherokee	226.5	7,520.1	0.0	60.0	23.4	1,002.4	0.0	2,526.0	194.1	2,961.3	9.0	970.4	0.0	0.0
Choctaw	415.1	4,106.9	23.0	170.0	34.6	1,021.4	137.5	1,859.2	220.0	618.2	0.0	438.1	0.0	0.0
Coal	5.6	1,801.2	0.0	35.8	5.6	118.8	0.0	652.3	0.0	380.6	0.0	613.7	0.0	0.0
Delaware	119.3	5,496.9	0.0	82.1	9.9	1,221.3	86.1	2,511.0	23.3	1,682.5	0.0	0.0	0.0	0.0
Haskell	378.1	3,953.6	9.5	93.0	23.4	236.8	23.2	1,585.3	242.2	899.1	79.8	1,139.4	0.0	0.0
Latimer	1,693.9	4,803.0	9.2	71.0	147.4	631.8	299.5	2,147.3	552.0	1,382.2	406.8	474.2	278.9	96.5
Le Flore	4,510.3	13,139.7	44.6	113.3	225.0	1,456.6	1,071.3	4,052.7	1,518.3	4,925.8	1,288.8	2,379.8	362.4	211.5
McCurtain	8,588.7	12,300.7	81.8	186.4	1,113.0	1,342.2	2,569.0	3,819.6	2,644.4	4,490.9	1,505.2	2,349.4	675.3	112.2
McIntosh	49.7	3,377.2	0.0	77.0	28.7	850.2	9.7	955.4	11.3	925.5	0.0	569.2	0.0	0.0
Mayes	98.1	3,948.2	0.0	44.5	0.0	379.1	0.0	1,343.3	98.1	2,181.3	0.0	0.0	0.0	0.0
Muskogee	8.0	3,224.4	0.0	12.8	4.4	587.7	3.6	1,198.6	0.0	1,235.7	0.0	189.7	0.0	0.0
Ottawa	0.0	1,386.5	0.0	0.0	0.0	189.1	0.0	831.7	0.0	202.8	0.0	162.9	0.0	0.0
Pittsburg	448.4	3,024.5	10.4	123.6	35.0	513.1	194.6	2,248.4	129.3	24.8	79.1	114.7	0.0	0.0
Pushmataha	6,270.1	11,257.2	40.1	69.8	837.6	1,312.2	1,428.1	4,160.0	2,087.7	3,509.9	1,185.2	1,519.0	691.5	686.3
Sequoyah	119.2	5,039.1	0.0	68.9	8.9	1,185.0	110.4	2,114.4	0.0	1,670.8	0.0	0.0	0.0	0.0
All counties	24,030.3	102,928.8	240.8	1,344.2	2,627.7	14,460.2	6,063.4	39,440.3	8,414.0	33,436.1	4,676.3	13,141.5	2,008.0	1,106.6

*Numbers in columns and rows may not total due to rounding.

[†]Based upon all live trees ≥1.0 inch in d.b.h.

[‡]Softwood species.

[§]Hardwood species.

Table 59.—Wood and bark dry weight of live trees on timberland by county and basal area class, east Oklahoma, 1993*

County	All classes				<30				30-59				60-89				90-119				120-149				≥150	
	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]	Soft [†]	Hard [§]				
	----- Million pounds -----																									
Adair	570.6	17,519.5	0.0	0.0	0.0	317.9	0.0	0.0	46.1	1,456.0	170.1	7,606.7	354.5	7,104.3	0.0	1,352.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Atoka	2,878.6	14,595.6	37.0	0.0	0.0	0.0	0.0	0.0	396.0	2,552.6	293.6	6,182.2	1,727.8	3,556.2	424.2	1,986.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Bryan	105.1	9,914.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,490.5	0.0	3,102.5	99.2	3,674.8	6.0	1,646.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Cherokee	801.3	17,848.8	0.0	0.0	0.0	173.5	0.0	0.0	47.9	2,515.8	0.0	6,039.7	720.1	6,686.8	33.3	2,432.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Choctaw	1,508.2	8,761.0	64.7	0.0	0.0	467.7	0.0	0.0	119.6	2,250.1	491.2	4,015.7	832.7	1,224.9	0.0	802.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Coal	11.2	4,048.3	0.0	0.0	0.0	77.3	0.0	0.0	11.2	297.2	0.0	1,462.9	0.0	956.8	0.0	1,254.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Delaware	365.5	12,462.2	0.0	0.0	0.0	226.4	0.0	0.0	37.5	2,668.2	237.4	5,785.9	90.7	3,781.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Haskell	1,158.6	9,054.9	32.8	0.0	0.0	225.8	0.0	0.0	78.4	620.4	71.2	3,568.7	744.1	2,006.5	232.2	2,633.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Latimer	5,673.7	11,095.7	41.8	0.0	0.0	153.9	0.0	0.0	483.1	1,397.2	1,039.1	4,932.4	1,751.4	3,277.3	1,362.0	1,057.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Le Flore	14,042.4	29,425.0	140.0	0.0	0.0	289.7	0.0	0.0	605.5	3,406.0	3,187.5	9,081.8	4,557.5	10,754.1	4,278.1	5,367.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
McCurtain	23,598.4	28,381.0	252.6	0.0	0.0	387.7	0.0	0.0	2,975.0	3,261.6	7,394.4	9,295.3	6,756.2	10,147.0	4,461.9	5,053.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
McIntosh	71.8	7,831.9	0.0	0.0	0.0	149.9	0.0	0.0	40.1	1,940.8	10.0	2,295.7	21.6	2,036.3	0.0	1,409.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Mayes	336.6	9,197.3	0.0	0.0	0.0	90.5	0.0	0.0	0.0	876.2	0.0	3,140.1	336.6	5,090.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Muskogee	34.1	7,622.0	0.0	0.0	0.0	22.4	0.0	0.0	15.4	1,477.8	18.7	2,773.1	0.0	2,828.2	0.0	520.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Ottawa	0.0	3,417.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	488.3	0.0	2,012.4	0.0	434.0	0.0	482.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Pittsburg	1,565.5	6,987.6	43.0	0.0	0.0	277.0	0.0	0.0	150.1	1,073.4	676.9	5,226.8	472.0	77.8	223.4	332.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Pushmataha	19,313.9	25,563.7	113.6	0.0	0.0	189.5	0.0	0.0	2,518.2	2,875.5	4,175.2	9,238.3	6,302.8	8,087.7	4,032.3	3,384.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Sequoyah	432.1	11,571.1	0.0	0.0	0.0	183.3	0.0	0.0	38.9	2,654.4	393.2	4,906.1	0.0	3,827.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
All counties	72,467.9	235,296.7	725.4	3,232.3	7,563.1	33,301.9	18,158.5	90,666.4	24,767.2	75,552.3	15,053.3	29,715.9	6,200.5	2,827.8												

*Numbers in columns and rows may not total due to rounding.

†Based upon all live trees ≥1.0 inch in d.b.h.

‡Softwood species.

§Hardwood species.

Table 60.—Wood and bark dry weight of stems in live trees on timberland by county and basal area class, east Oklahoma, 1993*

County	All classes						Basal area class [†] (Square feet per acre)											
	<30		30–59		60–89		90–119		120–149		≥150		Million pounds					
	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]	Soft [‡]	Hard [§]
Adair	496.1	13,150.9	0.0	0.0	0.0	0.0	41.5	1,116.9	150.9	5,721.8	303.6	5,359.8	0.0	952.3	0.0	0.0	0.0	0.0
Atoka	2,485.0	10,914.6	27.3	255.8	341.2	1,874.6	254.9	4,602.9	1,491.7	2,702.3	369.9	1,479.0	0.0	1,479.0	0.0	0.0	0.0	0.0
Bryan	87.4	7,451.9	0.0	0.0	0.0	1,165.1	0.0	2,353.7	81.8	2,694.1	5.6	1,239.0	0.0	1,239.0	0.0	0.0	0.0	0.0
Cherokee	699.7	13,570.5	0.0	136.7	37.3	1,957.0	0.0	4,654.8	633.4	4,943.2	29.1	1,878.8	0.0	1,878.8	0.0	0.0	0.0	0.0
Choctaw	1,322.7	6,533.5	55.6	388.0	103.7	1,727.1	429.7	2,948.4	733.7	892.4	0.0	577.7	0.0	577.7	0.0	0.0	0.0	0.0
Coal	8.7	2,950.7	0.0	49.9	8.7	227.2	0.0	1,083.7	0.0	717.4	0.0	872.5	0.0	872.5	0.0	0.0	0.0	0.0
Delaware	314.8	9,365.9	0.0	183.0	32.9	2,007.4	201.4	4,354.8	80.5	2,820.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Haskell	992.2	6,859.8	28.4	189.7	69.0	485.0	61.7	2,610.1	636.7	1,547.1	196.4	2,027.9	0.0	2,027.9	0.0	0.0	0.0	0.0
Latimer	4,925.1	8,474.0	38.0	115.8	418.1	1,046.6	908.0	3,702.0	1,506.6	2,559.3	1,179.9	816.2	0.0	816.2	0.0	234.2	0.0	0.0
Le Flore	12,037.2	22,350.4	122.8	232.1	505.9	2,626.7	2,717.7	6,856.2	3,870.8	8,179.5	3,709.2	4,037.5	0.0	4,037.5	0.0	1,110.9	0.0	418.4
McCurtain	19,688.2	21,956.6	216.9	305.7	2,475.2	2,598.6	6,221.5	7,319.0	5,548.0	7,663.4	3,771.8	3,887.0	0.0	3,887.0	0.0	1,455.0	0.0	182.9
McIntosh	49.3	5,905.5	0.0	107.0	27.1	1,424.1	5.6	1,742.7	16.6	1,535.6	0.0	1,096.0	0.0	1,096.0	0.0	0.0	0.0	0.0
Mayes	292.6	6,912.5	0.0	67.5	0.0	651.2	0.0	2,342.1	292.6	3,851.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Muskogee	30.8	5,723.5	0.0	15.7	13.3	1,144.4	17.6	2,058.0	0.0	2,088.1	0.0	417.2	0.0	417.2	0.0	0.0	0.0	0.0
Ottawa	0.0	2,629.9	0.0	0.0	0.0	380.5	0.0	1,542.6	0.0	314.3	0.0	392.6	0.0	392.6	0.0	0.0	0.0	0.0
Pittsburg	1,369.9	5,353.7	38.8	213.0	136.3	776.5	592.3	3,994.1	413.6	71.6	188.9	298.4	0.0	298.4	0.0	0.0	0.0	0.0
Pushmataha	16,539.6	19,663.5	97.2	154.7	2,146.1	2,210.9	3,539.7	6,937.2	5,376.0	6,311.4	3,518.7	2,633.2	0.0	2,633.2	0.0	1,862.0	0.0	1,416.2
Sequoyah	380.3	8,833.1	0.0	148.6	35.2	1,994.6	345.1	3,766.9	0.0	2,923.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All counties	61,719.6	178,600.4	624.9	2,563.3	6,391.4	25,414.4	15,445.9	68,591.0	20,985.6	57,174.7	12,969.6	22,605.4	5,302.3	2,251.7	5,302.3	2,251.7	2,251.7	2,251.7

*Numbers in columns and rows may not total due to rounding.

[†]Based upon all live trees ≥1.0 inch in d.b.h.

[‡]Softwood species.

[§]Hardwood species.

Table 61.—Wood and bark dry weight of crowns in live trees on timberland by county and basal area class, east Oklahoma, 1993*

County	All classes		<30		30-59		60-89		90-119		120-149		≥150	
	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡	Soft†	Hard‡
	Basal area class [§] (Square feet per acre)													
	-----Million pounds-----													
Adair	74.6	4,368.6	0.0	0.0	4.6	339.1	19.2	1,884.9	50.8	1,744.5	0.0	400.0	0.0	0.0
Atoka	393.7	3,681.0	9.7	62.1	54.8	678.0	38.7	1,579.2	236.1	853.9	54.3	507.7	0.0	0.0
Bryan	17.8	2,462.1	0.0	0.0	0.0	325.5	0.0	748.8	17.4	980.7	0.4	407.1	0.0	0.0
Cherokee	101.6	4,278.3	0.0	36.7	10.6	558.9	0.0	1,385.0	86.7	1,743.6	4.2	554.1	0.0	0.0
Choctaw	185.5	2,227.5	9.0	79.7	15.9	523.1	61.5	1,067.3	99.0	332.5	0.0	224.9	0.0	0.0
Coal	2.5	1,097.7	0.0	27.5	2.5	69.9	0.0	379.2	0.0	239.4	0.0	381.7	0.0	0.0
Delaware	50.8	3,096.3	0.0	43.3	4.6	660.8	36.0	1,431.2	10.2	961.0	0.0	0.0	0.0	0.0
Haskell	166.4	2,195.1	4.4	36.1	9.3	135.4	9.5	958.6	107.4	459.4	35.7	605.7	0.0	0.0
Latimer	748.6	2,621.6	3.8	38.1	65.0	350.6	131.0	1,230.4	244.8	717.9	182.0	241.5	122.0	43.0
Le Flore	2,005.2	7,074.6	17.2	57.6	99.6	779.2	469.8	2,225.6	686.7	2,574.6	568.9	1,330.1	163.1	107.4
McCurtain	3,910.2	6,424.5	35.8	81.9	499.8	663.0	1,172.9	1,976.2	1,208.2	2,483.6	690.1	1,166.2	303.3	53.4
McIntosh	22.5	1,926.4	0.0	42.9	13.0	516.6	4.4	553.0	5.0	500.7	0.0	313.1	0.0	0.0
Mayes	44.0	2,284.8	0.0	23.0	0.0	224.9	0.0	798.0	44.0	1,238.8	0.0	0.0	0.0	0.0
Muskogee	3.3	1,898.5	0.0	6.7	2.2	333.4	1.1	715.1	0.0	740.1	0.0	103.3	0.0	0.0
Ottawa	0.0	787.2	0.0	0.0	0.0	107.8	0.0	469.8	0.0	119.8	0.0	89.8	0.0	0.0
Pittsburg	195.6	1,634.0	4.2	63.9	13.9	296.9	84.7	1,232.8	58.4	6.2	34.5	34.2	0.0	0.0
Pushmataha	2,774.3	5,900.2	16.4	34.8	372.1	664.7	635.5	2,301.1	926.9	1,776.4	513.6	751.0	309.8	372.2
Sequoyah	51.8	2,738.0	0.0	34.7	3.7	659.7	48.1	1,139.2	0.0	904.4	0.0	0.0	0.0	0.0
All counties	10,748.3	56,696.2	100.5	669.1	1,171.7	7,887.5	2,712.6	22,075.5	3,781.6	18,377.5	2,083.7	7,110.5	898.2	576.1

*Numbers in columns and rows may not total due to rounding.

†Based upon all live trees ≥1.0 inch in d.b.h.

‡Softwood species.

§Hardwood species.

Table 62.—Sampling errors for estimates of wood and bark weight of live trees by county, tree component, and species group, east Oklahoma, 1993*

County	Percent sampling error of fresh weight						Percent sampling error of dry weight					
	Total tree		Stem		Crown		Total tree		Stem		Crown	
	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]	Soft [†]	Hard [‡]
Adair	60.9	8.7	60.6	8.5	62.5	9.3	61.2	8.7	61.2	8.4	61.8	10.0
Atoka	28.8	11.8	29.1	11.7	28.1	12.1	28.8	11.6	28.9	11.4	28.1	12.7
Bryan	84.2	10.8	86.0	10.7	77.5	11.4	83.6	10.9	84.9	10.4	78.0	12.9
Cherokee	62.5	10.1	63.0	9.8	59.8	11.1	62.3	9.9	62.7	9.4	60.0	12.1
Choctaw	42.4	12.8	42.7	12.4	41.0	14.2	42.3	12.5	42.5	11.9	41.3	14.5
Coal	100.0	26.4	100.0	25.8	100.0	28.5	100.0	26.8	100.0	26.1	100.0	29.3
Delaware	46.3	8.8	44.9	8.7	55.7	9.5	46.6	8.6	45.5	8.4	55.3	10.1
Haskell	31.9	19.0	31.9	19.3	32.0	18.1	31.6	17.2	31.5	17.1	32.5	17.7
Latimer	18.0	9.0	18.0	8.9	18.0	9.5	17.9	9.1	17.9	9.0	18.0	9.9
Le Flore	12.2	7.5	12.4	7.5	11.8	7.8	12.1	7.4	12.3	7.2	11.9	8.5
McCurtain	9.1	10.3	9.3	9.9	8.9	11.5	9.0	10.2	9.1	9.6	9.2	12.6
McIntosh	44.5	13.9	46.5	14.0	44.2	14.0	44.5	13.7	46.1	13.9	44.2	13.8
Mayes	100.0	10.6	100.0	10.6	100.0	10.8	100.0	10.6	100.0	10.7	100.0	10.9
Muskogee	67.2	10.7	67.3	10.5	67.8	11.7	67.1	10.8	67.3	10.4	71.9	12.5
Ottawa	0.0	13.1	0.0	12.9	0.0	14.3	0.0	12.9	0.0	12.4	0.0	15.9
Pittsburg	34.6	13.0	34.6	12.9	34.7	13.8	34.3	13.0	34.2	12.5	35.5	15.8
Pushmataha	8.3	6.9	8.4	7.0	8.5	6.8	8.2	6.9	8.3	7.0	8.6	7.1
Sequoyah	56.8	7.9	57.4	7.8	54.1	8.5	56.5	7.8	56.8	7.7	55.2	8.7
All counties	6.0	2.8	6.0	2.8	6.0	2.9	5.9	2.8	5.9	2.7	6.2	3.1

*See text for derivation of sampling error.

†Softwood species.

‡Hardwood species.

APPENDIX 4.—Figures

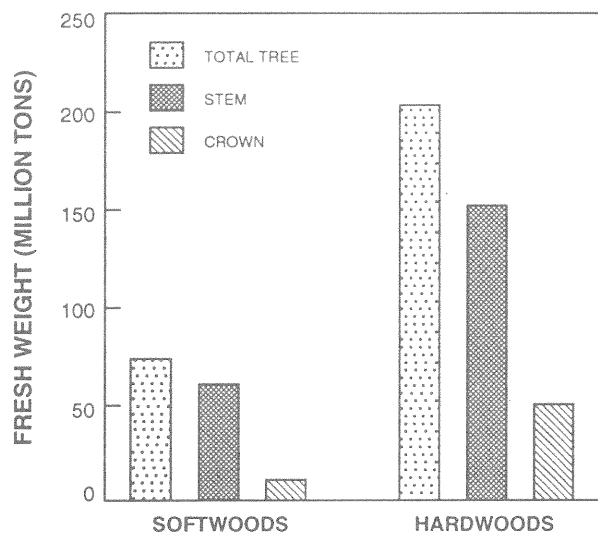


Figure 1.—Wood and bark, fresh, live-tree biomass for softwoods and hardwoods, by tree component, east Oklahoma, 1993.

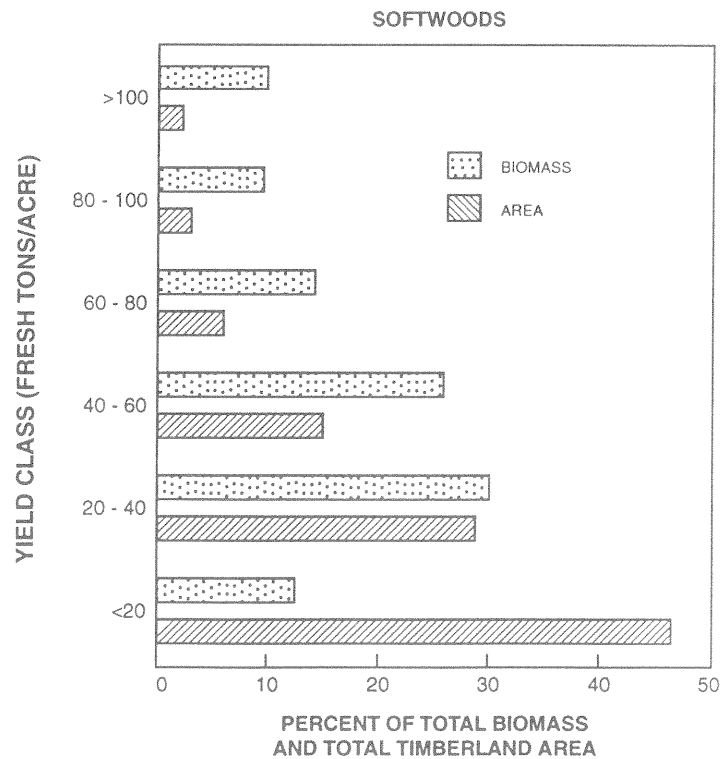


Figure 2.—Effective density of fresh, live-tree softwood biomass and relative yield area of softwood timberland by respective yield class, east Oklahoma, 1993.

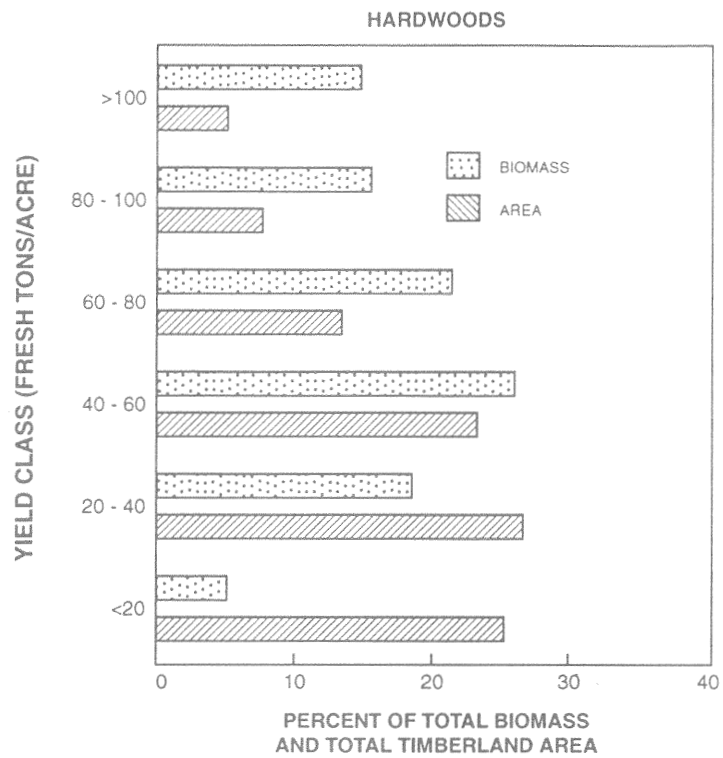


Figure 3.—Effective density of fresh, live-tree hardwood biomass and relative area of hardwood timberland by respective yield class, east Oklahoma, 1993.

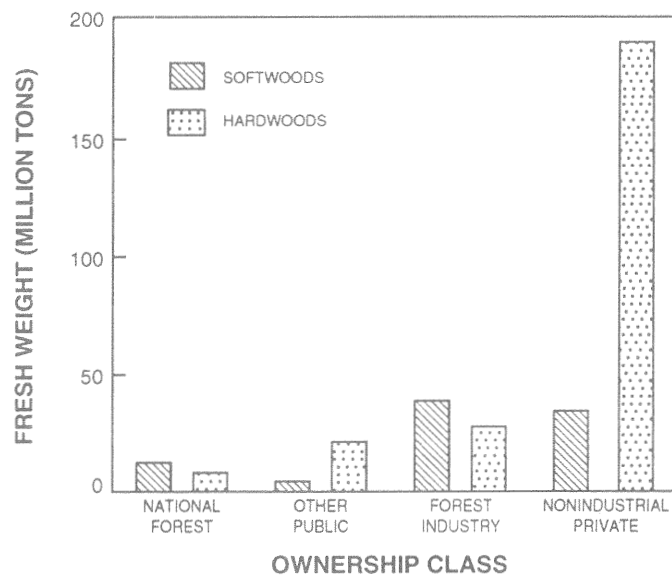


Figure 4.—Wood and bark, fresh, live-tree biomass for softwoods and hardwoods, by ownership class, east Oklahoma, 1993.

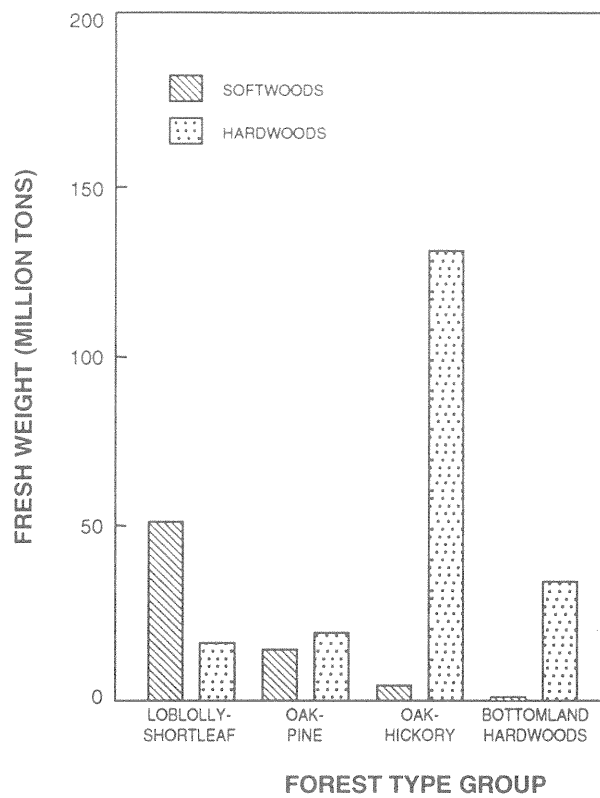


Figure 5.—Wood and bark, fresh, live-tree biomass for softwoods and hardwoods, by forest type group, east Oklahoma, 1993.

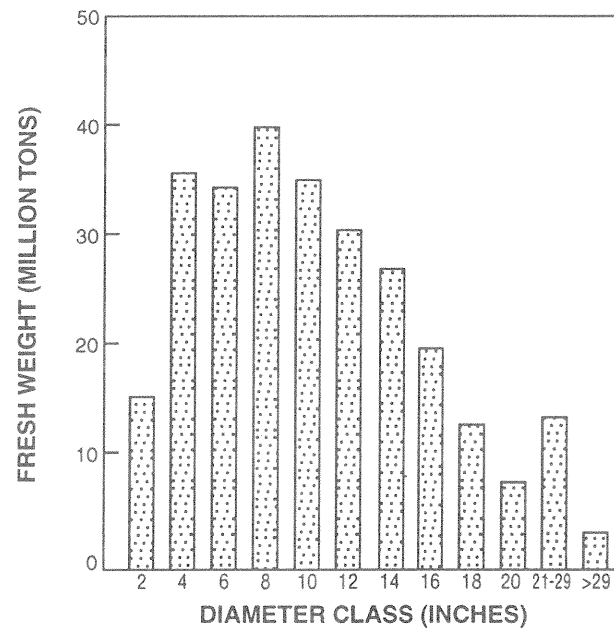


Figure 6.—Wood and bark, fresh, live-tree biomass for softwoods and hardwoods combined, by 2-inch diameter classes, east Oklahoma, 1993.

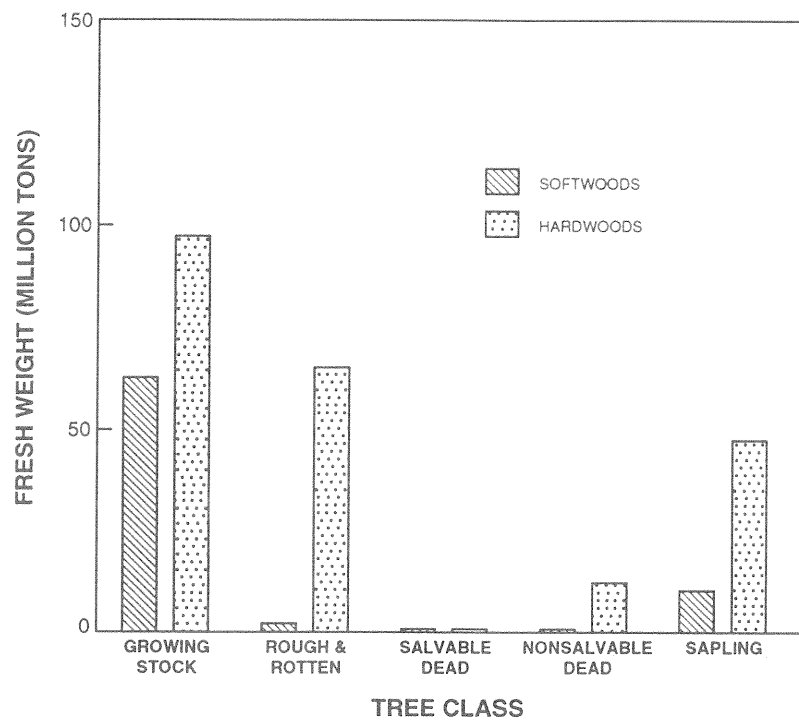


Figure 7.—Wood and bark, fresh, live-tree biomass for softwoods and hardwoods, by tree class, east Oklahoma, 1993.

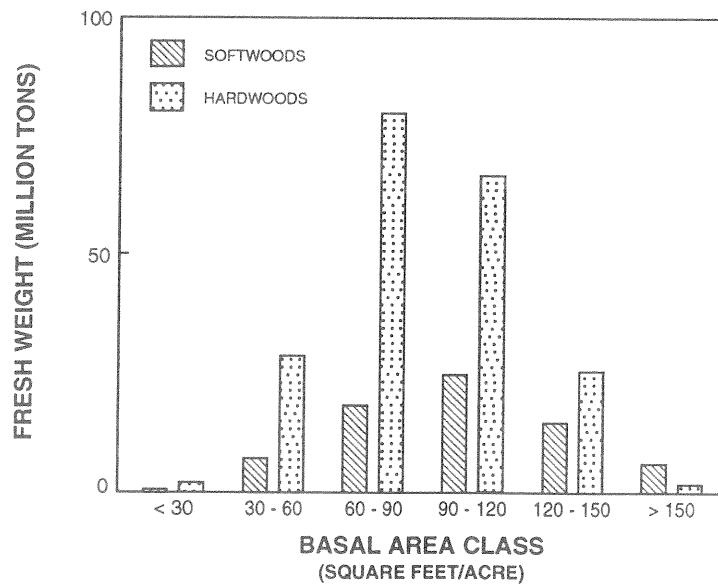


Figure 8.—Wood and bark, fresh, live-tree biomass for softwoods and hardwoods, by basal area class, east Oklahoma, 1993.

Rosson, James F., Jr. 1993. The woody biomass resource of east Oklahoma, 1993. Resour. Bull. SO-184. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 76 p.

Tables are presented for fresh and dry biomass estimates of major trees in east Oklahoma by forest type, ownership, species, stand basal area, tree class, diameter, and height. Information for total tree, stem, and crown components is included.

Keywords: Forest inventory, forest land, green weight, large-scale sample, regional inventory.

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