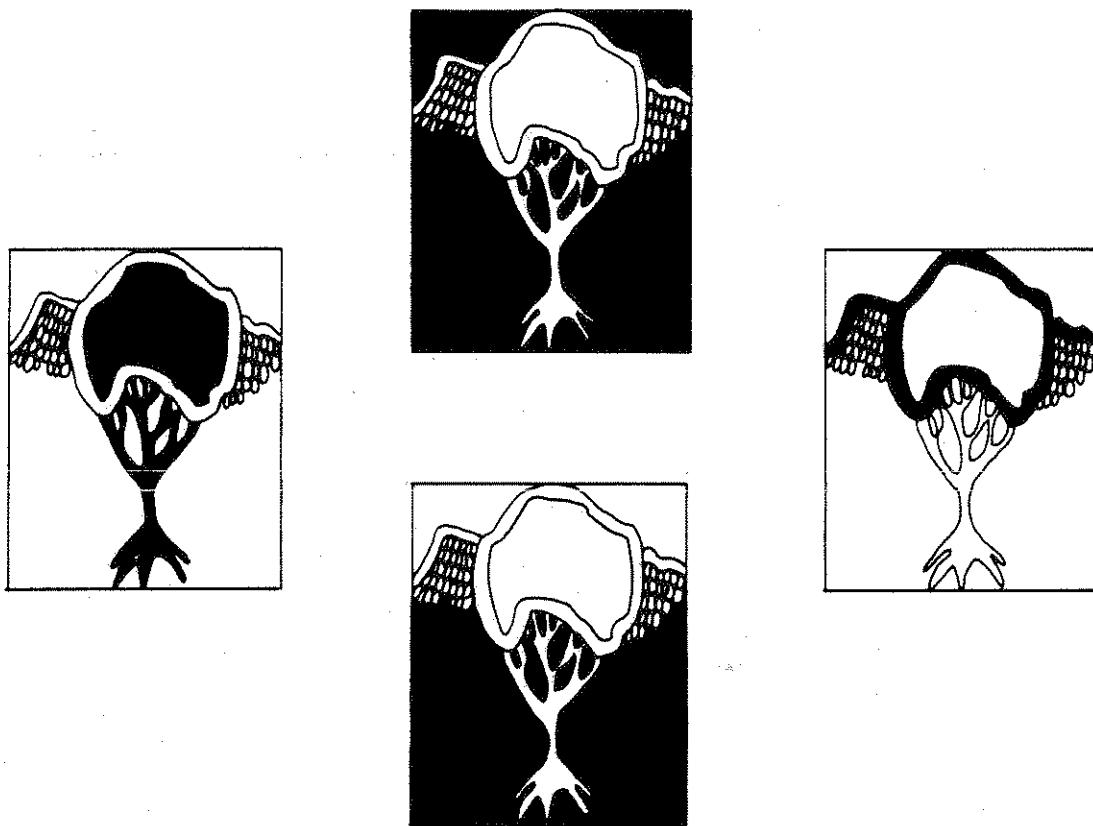


Yields of Old-Field Loblolly Pine Plantations



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YIELDS OF OLD-FIELD LOBLOLLY PINE PLANTATIONS

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INTRODUCTION

Loblolly pine (*Pinus taeda* L.) is one of the most important commercial species to the forest industries in the South, with a range extending through the Piedmont and the Atlantic and Gulf Coastal Plains from Maryland to eastern Texas. Although there is a great deal of published information on the growth and yield of loblolly pine, much of the data for these studies has been collected in the southeastern part of the natural loblolly pine range and published results have generally involved only volume units such as board feet, cubic feet, or cords. Consequently, a cooperative yield study between the Division of Forestry and Wildlife Resources at Virginia Polytechnic Institute and State University and several industrial forestry organizations was initiated to gather yield information which would be primarily applicable to the Virginia area. The scope of this study included per-tree and per-acre data for the various volume units as well as for green and dry weight. This paper presents per-acre yield information in volume and weight units for old-field loblolly pine plantations.

DATA COLLECTION AND SUMMARIZATION

Study area. Data for this study were collected by field crews from several industrial forestry organizations. Selected loblolly pine plantations were sampled in the Piedmont and Coastal Plain regions of Virginia, and in the Coastal Plain region of Delaware, Maryland and North Carolina. One hundred and twenty-nine of the 189 sample plots were located on Coastal Plain sites, while 60 were in the Piedmont region of Virginia. Figure 1 shows the geographic distribution of the 189 sample plots.

Plot selection. Temporary .1-acre, circular sample plots were randomly located in selected stands. To be sampled, plantations were required to be unthinned, contain no interplanting, be free of severe insect or disease damage, be unburned and unpruned, and be relatively free of wildlings.

Plot measurements. On each .1-acre plot, dbh was recorded to the nearest .1 inch for all trees in the 1-inch dbh class and above. Each tree in the 8-inch dbh class and above was classed as qualifying or not qualifying for sawtimber. A sawtimber tree was defined as being in the 8-inch dbh class or larger and having at least one 16-foot sawlog to a 6-inch top diameter, inside bark. Total height was recorded for at least one, but usually two trees per dbh class. Six to eight dominant and codominant trees were selected as site sample trees and the total age of the stand was determined from planting records, increment borings, or ring counts at the stump of the felled specimens.

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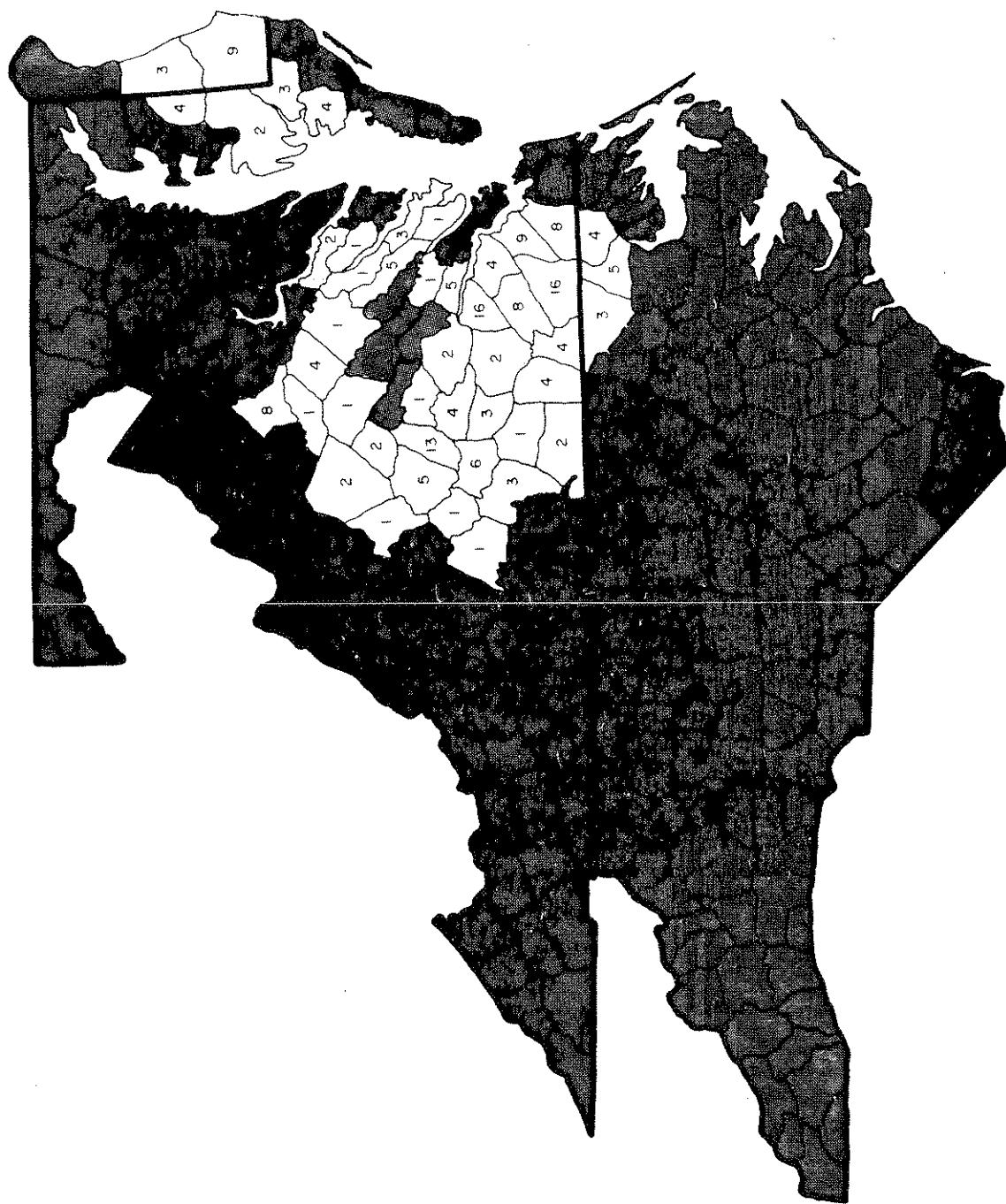


Figure 1. Distribution of loblolly pine plantation sample plots by county in Delaware, Maryland, Virginia, and North Carolina.

On each plot two trees (the 10th and 20th trees measured) were felled and cut into 4-foot sections for detailed measurements. The following data were recorded for each felled sample tree:

1. Dbh to the nearest .1 inch.
2. Total tree height to the nearest .1 foot.
3. Total age of the tree (age at the top of each 4-foot bolt was also recorded for dominants and codominants).
4. Diameters (inside and outside bark) at the stump and at 4-foot intervals up the stem to an approximate 2-inch top diameter (outside bark).
5. Green weight (with and without bark) of each disk approximately 1 to 1-1/2 inches in thickness cut from the top of each bolt. The disks were labeled and taken to the laboratory for specific gravity determination.

Data summarization. Using the felled-tree data, per-tree cubic-foot, cordwood, board foot, green weight and dry weight equations were computed. Topwood equations in cubic feet and cords were also computed for the saw-timber trees. The resulting equations were used when calculating all plot volumes and weights. A list of these equations is shown in Table 1.

For each plot, a regression of the form

$$\log_{10} H = b_0 + b_1(1/D)$$

where H = total tree height in feet

D = dbh in inches

was fitted to the measured height-dbh pairs on that plot. Substitution of the measured tree diameters into the appropriate height-diameter equation produced total height estimates for each tree on the sample plot. The dbh and height values were then substituted into the various per tree volume and weight equations (all based on dbh and total height with the exception of dry weight which also employs age) and the predicted tree contents were summed to obtain plot values. The number of trees per acre, basal area per acre, and average height of the dominant and codominant site-sample trees were also calculated.

The 189 plots ranged in age from 9 to 35 years, in site index (base age 25) from 47 to 84 and in number of trees per acre from 300 to 2,900. Table 2 shows the distribution of sample plots by age, site index, and number of trees per acre combinations.

Table 1. Equations used to predict per-tree values when summarizing plot volumes and weights.^a

BOLEWOOD VOLUME AND WEIGHT EQUATIONS

Cubic Feet

Total Stem

$$CV_{0b} = 0.34864 + 0.00232(D^2H), \quad CV_{ib} = 0.11691 + 0.00185(D^2H)$$

Top diameter 3.0 inches outside bark

$$CV_{0b} = 0.14346 + 0.00231(D^2H), \quad CV_{ib} = -0.05729 + 0.00184(D^2H)$$

Top diameter 4.0 inches outside bark

$$CV_{0b} = -0.37097 + 0.00233(D^2H), \quad CV_{ib} = -0.46236 + 0.00185(D^2H)$$

Standard Cords

Standard cords (with bark) to 3- and 4-inch tops outside bark were obtained for individual trees by dividing the predicted cubic-foot volume outside bark to a 3- and 4-inch top outside bark by the following conversion factors:

D (inches)	Conversion Factor	D (inches)	Conversion Factor	D (inches)	Conversion Factor
5	84	8	90	11	93
6	85	9	91	12	94
7	87	10	92	13+	95

Green Weight--Pounds

Total Stem

$$GW_{0b} = -2.34268 + 0.13258(D^2H), \quad GW_{ib} = -7.63507 + 0.12145(D^2H)$$

Top diameter 3.0 inches outside bark

$$GW_{0b} = -18.58792 + 0.13336(D^2H), \quad GW_{ib} = -22.72519 + 0.12231(D^2H)$$

Top diameter 4.0 inches outside bark

$$GW_{0b} = -45.02094 + 0.13403(D^2H), \quad GW_{ib} = -45.78331 + 0.12273(D^2H)$$

Dry Weight--Pounds

Dry weight (pounds) of wood per tree was calculated as the predicted unextracted wood specific gravity (ovendry weight, green volume basis) times 62.4 times the green cubic-foot volume inside bark. Specific gravity prediction equations used:

Table 1. Continued

Total Stem

$$SG_{ib} = 0.50927 - 1.38420(1/A)$$

Top diameter 3.0 inches outside bark

$$SG_{ib} = 0.51074 - 1.33500(1/A)$$

Top diameter 4.0 inches outside bark

$$SG_{ib} = 0.51627 - 1.32246(1/A)$$

Board Feet--International 1/4-inch

Top diameter 6.0 inches inside bark

$$BF = -23.67532 + 0.01102(D^2H)$$

TOPWOOD VOLUME EQUATIONS

Topwood volume equations were calculated under the assumption that all volume for 3- and 4-inch merchantable tops outside bark above the sawlog portion to these top limits would be utilized.

Cubic Feet

Top diameter 3.0 inches outside bark

$$TCV_{0b} = 0.67191 + 3.55599(H/D^2), \quad TCV_{ib} = 0.47717 + 3.10885(H/D^2)$$

Top diameter 4.0 inches outside bark

$$TCV_{0b} = 0.66772 + 3.11017(H/D^2), \quad TCV_{ib} = 0.49314 + 2.70888(H/D^2)$$

Standard Cords

The outside bark cubic-foot topwood equations were converted to standard cords (with bark) by assuming a constant factor of 86 cubic feet of wood and bark per standard cord. The converted equations are:

Top diameter 3.0 inches outside bark

$$TCD_{0b} = 0.007813 + 0.041349(H/D^2)$$

Top diameter 4.0 inches outside bark

$$TCD_{0b} = 0.007764 + 0.036165(H/D^2)$$

^aThroughout this table D denotes diameter at breast height in inches, H denotes total tree height in feet, and A denotes total tree age in years.

Table 2. Sample plot distribution by age, site index (base age 25), and number of trees per acre.

Age Class (years)	Site Index Class	Number of Trees Per Acre					Total
		<501 -----	501-800 -----	801-1100 Number of sample plots	1101-1400	>1400 -----	
9-10	50						
	60		4	1			5
	70		1	1	1		3
	80			1		1	2
	Total		5	3	1	1	10
11-15	50	2	5	3	2	1	13
	60	3	15	14	4		36
	70		13	12			25
	80		1				1
	Total	5	34	29	6	1	75
16-20	50		2	3		1	6
	60	3	23	14			40
	70	1	25	4			30
	80			1			1
	Total	4	50	22		1	77
21-25	50			1			1
	60	3	7		1		11
	70	2	2				4
	80						
	Total	5	9	1	1		16
26-30	50		1				1
	60	2					2
	70		1				1
	80						
	Total	2	2				4
31-35	50	1					1
	60	3	1				4
	70	2					2
	80						
	Total	6	1				7
Grand Total		22	101	55	8	3	189

SITE INDEX CURVES

The following model

$$\log_{10} H = b_0 + b_1(1/A)$$

where H = total height in feet

A = total age in years

was fitted to the 1,273 age-height pairs measured for site sample trees. Site sample trees were restricted to those that had been dominants or codominants throughout the life of the stand and were free of damage. The resulting equation was rearranged in the following form to produce the base age 25 site index curves that appear in Figure 2:

$$\log_{10} H = \log_{10} SI - 5.86537(1/A - 1/25)$$

where H = average height of the dominants and codominants in feet

SI = site index (base age 25)

A = total stand age in years.

YIELD EQUATIONS

It was desired to predict yield from the independent variables age, number of trees per acre, and average height of the dominant stand (defined as the average height of the dominants and codominants). Although site index is commonly used as one of the independent variables in plantation yield equations, dominant stand height has the advantage that it is a measured rather than a predicted variable and thus more nearly satisfies the assumption of regression that the concomitant information is measured without error. With age and site index specified, the average height of the dominant stand is determined and yields can be computed based on the height-age relationships (site index curves) presented in this paper or the alternative curves that the user feels most appropriate to his situation.

Using the above-mentioned independent variables and various transformations of them, the following model was selected to predict cubic-foot volume:

$$\log_{10} Y = b_0 + b_1(1/A) + b_2(H/A) + b_3(N/100) + b_4(A)(\log_{10} N) \quad (1)$$

where Y = cubic-foot volume per acre

A = total stand age in years

H = average height of the dominants and codominants in feet

N = number of trees per acre (1-inch dbh class and above).

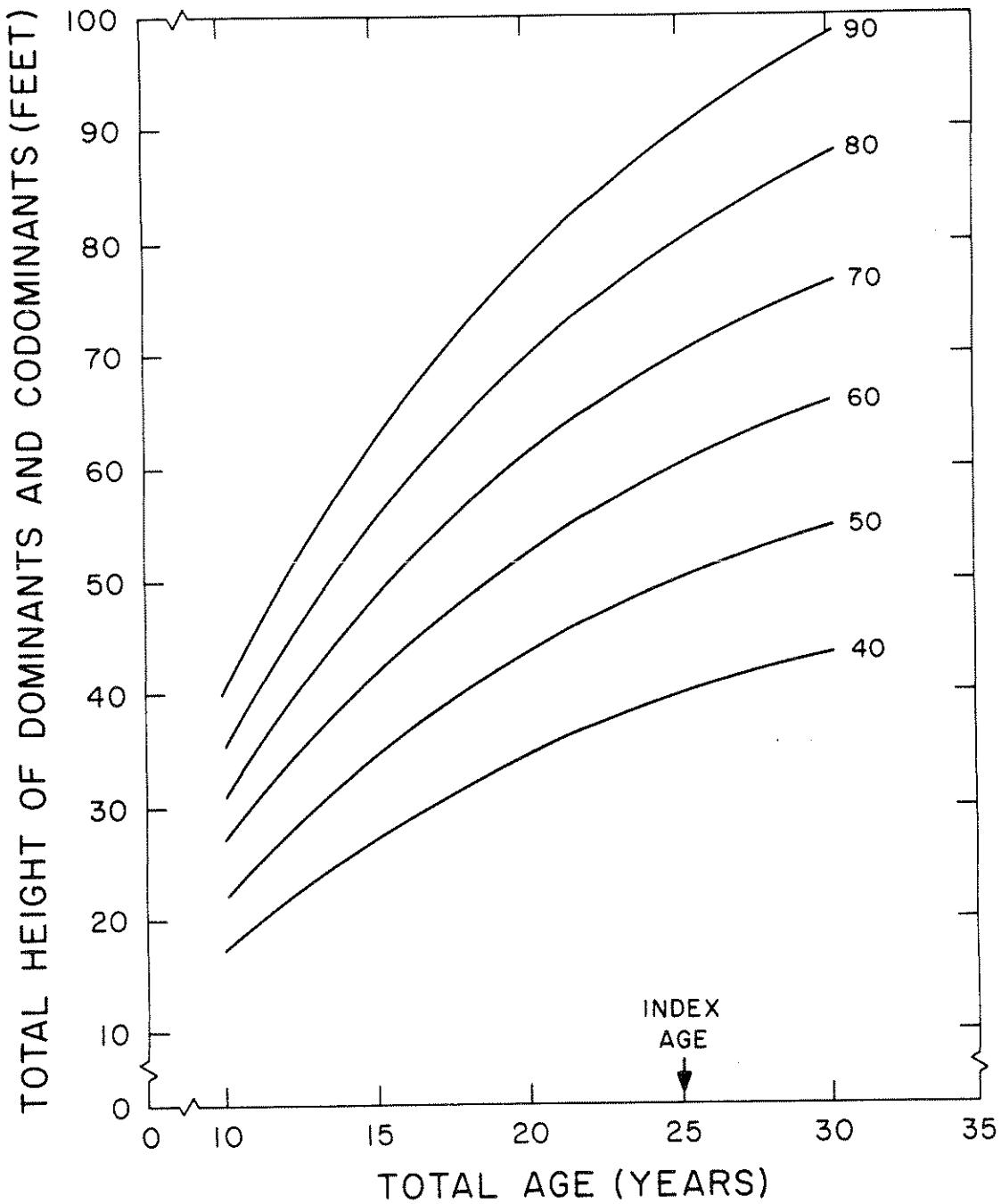


Figure 2. Site index curves (base age 25) for loblolly pine plantations.

The model was selected because of the good fit to the data [in terms of a high coefficient of determination (R^2) and a low standard error of estimate ($S_{y,x}$)] and because the resulting yield estimates were consistent with other published results of cubic-foot yield development in planted loblolly pine. When predicting total cubic-foot yield (outside and inside bark), information for all stems in the 1-inch dbh class and above on the 189 plots was used; however, for predicting merchantable cubic volume (outside and inside bark) to 3- and 4-inch top diameters, only the stems in the 5-inch dbh class and above on the 186 plots greater than or equal to 10 years of age were utilized.

Coefficients for model (1) were also solved for the following units:

1. Standard cords of wood and bark per acre to a 3- and to a 4-inch top diameter (outside bark).
2. Green weight with and without bark in 1,000 pounds per acre for the total stem and to 3- and 4-inch top diameters (outside bark).
3. Dry weight of wood only in 1,000 pounds per acre for the total stem and to 3- and 4-inch top diameters (outside bark).
4. Board foot volume per acre, International 1/4-inch log rule, for all stems in the 8-inch dbh class and above that quality (i.e., contain at least one 16-foot sawlog to a 6-inch top diameter, inside bark).

In the computations involving standard cords, green weight, and dry weight, the threshold diameters used and the plots included were the same as those utilized for analogous cubic-foot yield computations. For the board foot yield equation, all plots with observed zero volume were eliminated, leaving 110 plots for analysis. Coefficients for all of the resulting equations, with the associated R^2 and standard error of estimate values, are listed in Table 3. Yield tables generated using the equations in Table 3 and the site index curves presented in this paper are displayed as Appendix Tables 1 through 18. It should be noted that for a given unit of measure (e.g. cubic feet), the equations for different merchantable top limits may cross as the upper bounds in the range of observed site index and age values are approached.

The equations for cubic-foot and cordwood volume were solved assuming that the entire stand would be utilized for a single product. However, integrated operations for pulpwood and sawtimber are common throughout the range of loblolly pine. Thus it is advantageous to be able to predict the amount of pulpwood that can be harvested in addition to the board foot volume. This pulpwood volume is defined here to include trees less than the threshold diameter for sawtimber (8-inch dbh class) but greater than a minimum size for pulpwood (5-inch dbh class), plus the trees above the threshold diameter for sawtimber but not qualifying due to form or quality, plus the pulpwood volume in the tops of those trees utilized for sawtimber. A prediction equation for pulpwood volume in addition to board foot volume must satisfy the constraint that it always be less than or equal to the volume for all stems above the pulpwood threshold and that the two be equal when board foot volume is zero.

Table 3. Yield equations for old-field loblolly pine plantations.^a

Equation: ^b	b_0	b_1	b_2	b_3	b_4	Coefficient of Determination (R^2)	Standard Error of Estimate ($S_{y \cdot x}$)
<u>Cubic Feet per Acre</u>							
Total stem, outside bark	2.48451	-5.45086	0.29954	0.00946	0.00886	0.9331	0.0481
Total stem, inside bark	2.37288	-6.19378	0.31876	0.00706	0.00884	0.9357	0.0504
Outside bark to 3-in. top (ob)	2.68536	-9.61891	0.39235	-0.01307	0.00671	0.9132	0.0716
Inside bark to 3-in. top (ob)	2.56915	-10.26901	0.40684	-0.01395	0.00672	0.9182	0.0726
Outside bark to 4-in. top (ob)	2.65264	-11.38212	0.43070	-0.01533	0.00666	0.9245	0.0747
Inside bark to 4-in. top (ob)	2.54447	-12.38362	0.45136	-0.01645	0.00653	0.9284	0.0768
<u>Standard Cords per Acre</u>							
Outside bark to 3-in. top (ob)	0.76479	-9.48111	0.38508	-0.01165	0.00632	0.9083	0.0714
Outside bark to 4-in. top (ob)	0.73019	-11.22644	0.42333	-0.01394	0.00628	0.9207	0.0744
<u>Green Weight, 1000 Pounds per Acre</u>							
Total stem, outside bark	1.21951	-7.02499	0.34034	0.00419	0.00877	0.9370	0.0534
Total stem, inside bark	1.17817	-7.56027	0.35466	0.00213	0.00871	0.9367	0.0560
Outside bark to 3-in. top (ob)	1.41301	-11.19215	0.42667	-0.01510	0.00667	0.9236	0.0743
Inside bark to 3-in. top (ob)	1.37009	-11.65703	0.43640	-0.01564	0.00662	0.9257	0.0752
Outside bark to 4-in. top (ob)	1.40443	-13.57138	0.47500	-0.01765	0.00630	0.9316	0.0796
Inside bark to 4-in. top (ob)	1.36893	-14.17656	0.48683	-0.01823	0.00616	0.9327	0.0812
<u>Dry Weight, 1000 Pounds per Acre</u>							
Total stem, inside bark	0.90223	-7.79316	0.31881	0.00720	0.00864	0.9479	0.0503
Inside bark to 3-in. top (ob)	1.09538	-11.76794	0.40689	-0.01385	0.00655	0.9291	0.0727
Inside bark to 4-in. top (ob)	1.07452	-13.84583	0.45142	-0.01635	0.00637	0.9369	0.0768
<u>Board Feet per Acre, Int. 1/4-inch To 6-in. top (ib)</u>							
	3.61623	-54.68953	1.20010	-0.13601	0.00169	0.7930	0.2915

^aPredictions involving the total stem include all trees in the 1-inch dbh class and above; predictions for merchantable volume to 3- and 4-inch tops include all trees in the 5-inch dbh class and above; predicted board foot volume is for all stems in the 8-inch dbh class and above that qualify for sawtimber by containing at least one 16-foot sawlog to a 6-inch top diameter, inside bark.

^bEquation: $\log_{10}Y = b_0 + b_1(1/A) + b_2(H/A) + b_3(N/100) + b_4(A)(\log_{10}N)$ where A is total stand age in years, H is average height of the dominants and codominants in feet, and N is the number of stems per acre (1-inch dbh class and above).

Data plots indicated a good linear relationship between the logarithm of cubic-foot volume of all stems in the 5-inch dbh class and above minus cubic-foot volume in addition to board foot volume and the logarithm of board foot volume, thus suggesting the model

$$\log_{10}(CV_1 - CV_2) = b_0 + b_1(\log_{10}BF) \quad (2)$$

where CV_1 = cubic-foot volume per acre for all stems in the 5-inch dbh class and above

CV_2 = cubic-foot volume per acre in addition to board foot volume per acre

BF = International 1/4-inch board foot volume per acre.

The above equation may be rewritten with CV_2 on the left-hand side as:

$$CV_2 = CV_1 - 10^{b_0 BF b_1} \quad (3)$$

Note that this equation satisfies the logical conditions that CV_2 must always be less than or equal to CV_1 and that CV_2 equals CV_1 when the board foot volume (BF) is equal to zero. Coefficients for model (2) were solved using standard linear regression techniques for cubic-foot volume inside and outside bark to 3- and 4-inch tops (outside bark) and for standard rough cords to 3- and 4-inch tops (outside bark) using observed cubic-foot, standard cord and board foot values. Resulting equations for the various units of measure and merchantability limits for model (2) are tabulated in Table 4. Multiple-product yield tables (pulpwood and sawtimber) are tabulated as Appendix Tables 19 through 24. When predicting the cubic-foot or cordwood volume in addition to board foot volume, one must use the appropriate equation (i.e., in terms of unit of measure and merchantability limit) from model (1) to predict the volume if the entire stand were utilized for pulpwood. The board foot volume is also predicted and these two predicted values are substituted into the appropriate model (3) equation to obtain an estimate of pulpwood volume in addition to sawtimber volume. A note of caution: if these multiple-product equations are applied at the extremes of the observed data where board foot predictions are the largest, negative predicted values for the pulpwood volume in addition to sawtimber volume can result.

DISCUSSION

The equations presented here are based on temporary plot data and are intended to predict yield at a given point in time under various stand density and site quality conditions. However, some users may wish to predict yields at two different points in time and to obtain growth rates by differencing. If stand parameters at one point in time are known (or assumed) and growth projections are desired, it will be necessary to project stand density. When density is in terms of number of trees per acre, the present number of stems can be used without serious error when predicting future yields for short term projections. However for longer projections mortality must be accounted for. Since the necessary information for survival analysis was not available in the present data

Table 4. Equations to predict pulpwood volume in addition to sawtimber volume for old-field loblolly pine plantations.

Equation: ^a	b_0	b_1	Coefficient of Determination (r^2)	Standard Error of Estimate ($S_{y \cdot x}$)
<u>Cubic Feet per Acre</u>				
Outside bark to 3-in. top (ob)	0.03496	0.83645	0.9696	0.0936
Inside bark to 3-in. top (ob)	-0.13573	0.85035	0.9735	0.0887
Outside bark to 4-in. top (ob)	0.00095	0.84413	0.9722	0.0902
Inside bark to 4-in. top (ob)	-0.17400	0.85889	0.9762	0.0847
<u>Standard Cords per Acre</u>				
Outside bark to 3-in. top (ob)	-1.95492	0.84192	0.9717	0.0907
Outside bark to 4-in. top (ob)	-1.97211	0.84486	0.9720	0.0906

aEquation: $\log_{10} (Y_1 - Y_2) = b_0 + b_1 (\log_{10} BF)$ where Y_1 is the volume of all stems in the 5-inch dbh class and above, Y_2 is the volume in stems of the 5-, 6-, and 7-inch dbh classes plus all larger stems not qualifying for sawtimber plus the topwood of trees utilized for sawtimber, BF is the board foot volume per acre, International 1/4-inch rule, of all stems in the 8-inch dbh class and above that qualify by containing at least one 16-foot sawlog to a 6-inch top diameter, inside bark.

set, users may wish to employ mortality figures from the literature such as those presented by Lenhart and Clutter.²

When making projections, it is reasonable to assume that site quality does not change; thus the same height-age curve can be used for all points in time.

It should be noted that plots in this study were selected at random within stands meeting the sampling criteria, and thus, hopefully, the yield equations represent average conditions for the types of stands included.

In summary, the equations presented should perform adequately for predicting yields of old-field loblolly pine plantations within the geographic area that the data were collected and within the range of observed data. Care must be exercised to project stand density when the equations are used for growth projection over long periods of time.

²Lenhart, J. D. and J. L. Clutter. 1971. Cubic-foot yield tables for old-field loblolly pine plantations in the Georgia Piedmont. Ga. Forest Res. Coun. Report 22--Series 3, 12 p. Macon, Ga.

APPENDIX

- Table 1. Cubic-foot yield of wood and bark for the total stem of unthinned, old-field loblolly pine plantations.
- Table 2. Cubic-foot yield of wood only for the total stem of unthinned, old-field loblolly pine plantations.
- Table 3. Cubic-foot yield of wood and bark to a 3-inch top diameter, outside bark, for unthinned, old-field loblolly pine plantations.
- Table 4. Cubic-foot yield of wood only to a 3-inch top diameter, outside bark, for unthinned, old-field loblolly pine plantations.
- Table 5. Cubic-foot yield of wood and bark to a 4-inch top diameter, outside bark, for unthinned, old-field loblolly pine plantations.
- Table 6. Cubic-foot yield of wood only to a 4-inch top diameter, outside bark, for unthinned, old-field loblolly pine plantations.
- Table 7. Standard cord yield of wood and bark to a 3-inch top diameter, outside bark, for unthinned, old-field loblolly pine plantations.
- Table 8. Standard cord yield of wood and bark to a 4-inch top diameter, outside bark, for unthinned, old-field loblolly pine plantations.
- Table 9. Green weight yield of wood and bark for the total stem of unthinned, old-field loblolly pine plantations.
- Table 10. Green weight yield of wood only for the total stem of unthinned, old-field loblolly pine plantations.
- Table 11. Green weight yield of wood and bark to a 3-inch top diameter, outside bark, for unthinned, old-field loblolly pine plantations.
- Table 12. Green weight yield of wood only to a 3-inch top diameter, outside bark, for unthinned, old-field loblolly pine plantations.
- Table 13. Green weight yield of wood and bark to a 4-inch top diameter, outside bark, for unthinned, old-field loblolly pine plantations.
- Table 14. Green weight yield of wood only to a 4-inch top diameter, outside bark, for unthinned, old-field loblolly pine plantations.
- Table 15. Dry weight yield of wood only for the total stem of unthinned, old-field loblolly pine plantations.
- Table 16. Dry weight yield of wood only to a 3-inch top diameter, outside bark, for unthinned, old-field loblolly pine plantations.
- Table 17. Dry weight yield of wood only to a 4-inch top diameter, outside bark, for unthinned, old-field loblolly pine plantations.
- Table 18. Board foot yield, International 1/4-inch, to a 6-inch top diameter, inside bark, for unthinned, old-field loblolly pine plantations.

Table 19. Multiple-product yields of pulpwood in cubic feet of wood and bark to a 3-inch top diameter, outside bark, and sawtimber in board feet, International 1/4-inch, for unthinned, old-field loblolly pine plantations.

Table 20. Multiple-product yields of pulpwood in cubic feet of wood only to a 3-inch top diameter, outside bark, and sawtimber in board feet, International 1/4-inch, for unthinned, old-field loblolly pine plantations.

Table 21. Multiple-product yields of pulpwood in cubic feet of wood and bark to a 4-inch top diameter, outside bark, and sawtimber in board feet, International 1/4-inch, for unthinned, old-field loblolly pine plantations.

Table 22. Multiple-product yields of pulpwood in cubic feet of wood only to a 4-inch top diameter, outside bark, and sawtimber in board feet, International 1/4-inch, for unthinned, old-field loblolly pine plantations.

Table 23. Multiple-product yields of pulpwood in standard cords of wood and bark to a 3-inch top diameter, outside bark, and sawtimber in board feet, International 1/4-inch, for unthinned, old-field loblolly pine plantations.

Table 24. Multiple-product yields of pulpwood in standard cords of wood and bark to a 4-inch top diameter, outside bark, and sawtimber in board feet, International 1/4-inch, for unthinned, old-field loblolly pine plantations.

APPENDIX TABLE 1. CUBIC-FOOT YIELD OF WOOD AND BARK FOR THE
TOTAL STEM OF UNTHINNED, OLD-FIELD LOBLOLLY PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
CUBIC FEET PER ACRE						
SITE INDEX 50						
10	780	810	839	868	896	924
15	1673	1752	1828	1902	1974	2046
20	2465	2602	2733	2860	2984	3108
25	3241	3449	3647	3839	4028	4214
30	4109	4408	4694	4971	5242	5509
SITE INDEX 60						
10	1060	1100	1140	1179	1218	1256
15	2306	2415	2519	2621	2721	2820
20	3331	3517	3693	3865	4034	4200
25	4271	4545	4806	5059	5307	5552
30	5285	5669	6036	6392	6741	7085
SITE INDEX 70						
10	1440	1496	1549	1602	1655	1707
15	3178	3328	3472	3612	3750	3886
20	4503	4753	4992	5224	5452	5677
25	5627	5988	6333	6667	6993	7316
30	6796	7291	7763	8221	8669	9112
SITE INDEX 80						
10	1957	2032	2106	2178	2249	2320
15	4380	4587	4785	4978	5168	5356
20	6086	6424	6747	7061	7369	7673

APPENDIX TABLE 2. CUBIC-FOOT YIELD OF WOOD ONLY FOR THE TOTAL STEM OF UNTHINNED, OLD-FIELD LOBLOLLY PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
CUBIC FEET PER ACRE						
SITE INDEX 50						
10	545	563	580	596	612	628
15	1243	1294	1342	1389	1434	1478
20	1870	1963	2050	2134	2214	2293
25	2480	2624	2760	2889	3014	3135
30	3154	3364	3562	3751	3933	4111
SITE INDEX 60						
10	755	780	803	826	849	871
15	1748	1820	1888	1954	2017	2079
20	2577	2705	2826	2940	3051	3160
25	3326	3520	3701	3875	4042	4205
30	4122	4397	4655	4902	5141	5373
SITE INDEX 70						
10	1046	1081	1114	1145	1176	1207
15	2459	2561	2657	2748	2837	2924
20	3551	3728	3894	4052	4205	4354
25	4461	4721	4964	5197	5421	5640
30	5387	5746	6084	6407	6719	7022
SITE INDEX 80						
10	1450	1498	1543	1587	1630	1672
15	3460	3603	3737	3866	3992	4114
20	4894	5137	5365	5583	5794	6000

APPENDIX TABLE 3. CUBIC-FOOT YIELD OF WOOD AND BARK TO A 3-INCH
TOP DIAMETER, OUTSIDE BARK, FOR UNTHINNED, OLD-FIELD LOBLOLLY
PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
CUBIC FEET PER ACRE						
SITE INDEX 50						
10	515	506	496	485	475	464
15	1454	1438	1417	1393	1368	1342
20	2282	2269	2247	2220	2189	2154
25	2970	2971	2959	2936	2906	2870
30	3616	3640	3643	3632	3608	3576
SITE INDEX 60						
10	769	756	741	725	710	693
15	2214	2188	2156	2121	2083	2042
20	3385	3366	3335	3295	3248	3196
25	4262	4264	4246	4214	4170	4119
30	5027	5060	5065	5049	5017	4972
SITE INDEX 70						
10	1150	1129	1107	1084	1060	1036
15	3370	3331	3282	3228	3170	3109
20	5024	4995	4949	4889	4819	4743
25	6118	6121	6095	6048	5986	5912
30	6989	7035	7042	7019	6975	6913
SITE INDEX 80						
10	1718	1688	1655	1620	1585	1549
15	5130	5070	4996	4914	4825	4732
20	7454	7412	7343	7254	7151	7038

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APPENDIX TABLE 4. CUBIC-FOOT YIELD OF WOOD ONLY TO A 3-INCH TOP DIAMETER, OUTSIDE BARK, FOR UNTHINNED, OLD-FIELD LOBLOLLY PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
CUBIC FEET PER ACRE						
SITE INDEX 50						
10	362	355	347	339	331	323
15	1079	1064	1046	1027	1006	985
20	1727	1714	1694	1671	1644	1614
25	2269	2265	2251	2229	2202	2171
30	2774	2787	2784	2770	2747	2717
SITE INDEX 60						
10	549	538	526	514	502	490
15	1667	1645	1618	1588	1556	1523
20	2600	2581	2551	2515	2475	2431
25	3300	3295	3274	3243	3203	3157
30	3904	3923	3918	3898	3866	3824
SITE INDEX 70						
10	832	816	798	780	762	743
15	2578	2543	2501	2455	2405	2354
20	3915	3885	3841	3787	3726	3660
25	4800	4793	4763	4717	4659	4592
30	5495	5520	5514	5486	5440	5381
SITE INDEX 80						
10	1263	1238	1211	1183	1155	1127
15	3985	3931	3866	3795	3719	3640
20	5895	5850	5784	5702	5610	5510

APPENDIX TABLE 5. CUBIC-FOOT YIELD OF WOOD AND BARK TO A 4-INCH
TOP DIAMETER, OUTSIDE BARK, FOR UNTHINNED, OLD-FIELD LOBLOLLY
PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
CUBIC FEET PER ACRE						
SITE INDEX 50						
10	376	367	358	349	340	330
15	1225	1205	1181	1155	1128	1101
20	2028	2006	1977	1942	1905	1864
25	2701	2687	2662	2627	2586	2541
30	3321	3325	3310	3282	3243	3197
SITE INDEX 60						
10	584	571	557	542	528	513
15	1944	1911	1873	1832	1790	1746
20	3128	3094	3048	2995	2937	2875
25	4016	3956	3958	3906	3845	3778
30	4769	4774	4753	4712	4657	4591
SITE INDEX 70						
10	908	888	866	843	820	797
15	3082	3030	2970	2906	2838	2769
20	4824	4771	4701	4620	4530	4434
25	5971	5942	5885	5808	5718	5617
30	6847	6855	6824	6765	6686	6592
SITE INDEX 80						
10	1412	1380	1346	1310	1275	1239
15	4889	4806	4711	4609	4502	4391
20	7439	7358	7250	7124	6986	6839

APPENDIX TABLE 6. CUBIC-FOOT YIELD OF WOOD ONLY TO A 4-INCH TOP DIAMETER, OUTSIDE BARK, FOR UNTHINNED, OLD-FIELD LOBLOLLY PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
CUBIC FEET PER ACRE						
SITE INDEX 50						
10	253	247	240	233	226	219
15	892	875	855	834	812	790
20	1518	1497	1471	1441	1409	1375
25	2043	2026	2001	1969	1932	1893
30	2519	2514	2495	2466	2429	2388
SITE INDEX 60						
10	402	392	381	370	359	348
15	1447	1418	1386	1352	1317	1281
20	2391	2357	2316	2269	2219	2166
25	3096	3071	3032	2983	2928	2868
30	3681	3673	3645	3602	3549	3489
SITE INDEX 70						
10	639	622	605	588	570	553
15	2346	2300	2248	2193	2136	2078
20	3765	3712	3647	3573	3493	3410
25	4691	4653	4595	4521	4438	4347
30	5377	5366	5325	5263	5185	5097
SITE INDEX 80						
10	1014	988	961	933	905	878
15	3804	3729	3645	3555	3463	3369
20	5928	5845	5742	5626	5501	5370

APPENDIX TABLE 7. STANDARD CORD YIELD OF WOOD AND BARK TO A
3-INCH TOP DIAMETER, OUTSIDE BARK, FOR UNTHINNED, OLD-FIELD
LOBLOLLY PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
CORDS PER ACRE						
SITE INDEX 50						
10	6.1	6.0	5.9	5.8	5.7	5.6
15	16.8	16.7	16.5	16.2	16.0	15.7
20	26.0	25.9	25.7	25.4	25.1	24.8
25	33.4	33.5	33.4	33.2	32.9	32.6
30	40.2	40.5	40.6	40.6	40.4	40.1
SITE INDEX 60						
10	9.0	8.9	8.8	8.6	8.4	8.3
15	25.4	25.2	24.9	24.5	24.1	23.7
20	38.3	38.1	37.9	37.5	37.0	36.5
25	47.6	47.7	47.6	47.3	47.0	46.5
30	55.6	56.0	56.2	56.1	55.8	55.4
SITE INDEX 70						
10	13.4	13.2	13.0	12.8	12.5	12.3
15	38.4	38.0	37.5	37.0	36.4	35.8
20	56.4	56.2	55.8	55.2	54.6	53.8
25	67.9	68.0	67.9	67.5	66.9	66.3
30	76.8	77.4	77.6	77.5	77.1	76.6
SITE INDEX 80						
10	19.9	19.6	19.3	18.9	18.6	18.2
15	57.9	57.4	56.7	55.9	55.0	54.1
20	83.1	82.7	82.1	81.3	80.4	79.3

APPENDIX TABLE 8. STANDARD CORD YIELD OF WOOD AND BARK TO A
4-INCH TOP DIAMETER, OUTSIDE BARK, FOR UNTHINNED, OLD-FIELD
LOBLOLLY PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
CORDS PER ACRE						
SITE INDEX 50						
10	4.5	4.4	4.3	4.2	4.1	4.0
15	14.1	13.9	13.7	13.4	13.2	12.9
20	23.1	22.8	22.6	22.2	21.8	21.4
25	30.3	30.2	30.0	29.7	29.3	28.8
30	36.9	37.0	36.8	36.6	36.2	35.8
SITE INDEX 60						
10	6.9	6.7	6.6	6.4	6.3	6.1
15	22.3	21.9	21.5	21.1	20.7	20.2
20	35.3	35.0	34.5	34.0	33.4	32.8
25	44.8	44.6	44.3	43.8	43.2	42.5
30	52.6	52.7	52.6	52.2	51.7	51.1
SITE INDEX 70						
10	10.6	10.4	10.1	9.9	9.7	9.4
15	35.0	34.5	33.9	33.3	32.6	31.8
20	54.0	53.5	52.9	52.1	51.2	50.2
25	66.1	65.9	65.4	64.7	63.8	62.8
30	75.1	75.3	75.0	74.5	73.8	72.9
SITE INDEX 80						
10	16.3	16.0	15.7	15.3	14.9	14.5
15	55.1	54.3	53.4	52.3	51.2	50.1
20	82.7	82.0	80.9	79.7	78.3	76.9

APPENDIX TABLE 9. GREEN WEIGHT YIELD OF WOOD AND BARK FOR THE
TOTAL STEM OF UNTHINNED, OLD-FIELD LOBLOLLY PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
THOUSAND POUNDS PER ACRE						
SITE INDEX 50						
10	34.00	34.88	35.70	36.47	37.20	37.91
15	82.90	85.73	88.34	90.78	93.09	95.30
20	127.64	133.06	138.03	142.67	147.06	151.26
25	170.56	179.24	187.20	194.63	201.66	208.37
30	217.30	230.19	242.04	253.13	263.63	273.66
SITE INDEX 60						
10	48.17	49.42	50.58	51.67	52.71	53.72
15	119.35	123.43	127.18	130.69	134.02	137.21
20	179.74	187.38	194.38	200.92	207.10	213.01
25	233.36	245.23	256.12	266.29	275.90	285.09
30	289.20	306.36	322.13	336.88	350.85	364.21
SITE INDEX 70						
10	68.25	70.03	71.67	73.22	74.69	76.12
15	171.83	177.71	183.11	188.16	192.95	197.54
20	253.11	263.87	273.73	282.94	291.64	299.96
25	319.27	335.52	350.41	364.32	377.48	390.04
30	384.89	407.72	428.71	448.34	466.94	484.72
SITE INDEX 80						
10	96.71	99.22	101.55	103.74	105.84	107.85
15	247.39	255.85	263.62	270.89	277.79	284.40
20	356.44	371.59	385.48	398.44	410.70	422.41

APPENDIX TABLE 10. GREEN WEIGHT YIELD OF WOOD ONLY FOR THE TOTAL STEM OF UNTHINNED, OLD-FIELD LOBLOLLY PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
THOUSAND POUNDS PER ACRE						
SITE INDEX 50						
10	28.61	29.21	29.75	30.24	30.71	31.14
15	72.79	74.92	76.81	78.55	80.16	81.67
20	113.66	117.90	121.71	125.18	128.41	131.43
25	152.56	159.52	165.77	171.50	176.82	181.81
30	194.47	204.96	214.43	223.14	231.24	238.86
SITE INDEX 60						
10	41.13	42.00	42.77	43.49	44.15	44.78
15	106.42	109.52	112.30	114.84	117.19	119.40
20	162.38	168.44	173.88	178.85	183.45	187.77
25	211.49	221.14	229.81	237.76	245.13	252.05
30	261.94	276.07	288.83	300.56	311.47	321.74
SITE INDEX 70						
10	59.15	60.39	61.50	62.53	63.49	64.39
15	155.58	160.12	164.18	167.89	171.33	174.56
20	231.98	240.65	248.41	255.51	262.09	268.26
25	293.20	306.57	318.59	329.61	339.83	349.43
30	352.82	371.86	389.05	404.84	419.55	433.38
SITE INDEX 80						
10	85.04	86.83	88.44	89.91	91.28	92.58
15	227.46	234.08	240.02	245.45	250.48	255.20
20	331.43	343.80	354.90	365.04	374.43	383.25

APPENDIX TABLE 11. GREEN WEIGHT YIELD OF WOOD AND BARK TO A
3-INCH TOP DIAMETER, OUTSIDE BARK, FOR UNTHINNED, OLD-FIELD
LOBLOLLY PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
THOUSAND POUNDS PER ACRE						
SITE INDEX 50						
10	22.24	21.74	21.21	20.67	20.12	19.57
15	71.37	70.20	68.85	67.40	65.86	64.29
20	117.45	116.23	114.59	112.67	110.54	108.27
25	156.03	155.35	153.95	152.04	149.76	147.20
30	191.70	192.03	191.27	189.74	187.63	185.08
SITE INDEX 60						
10	34.42	33.65	32.83	32.00	31.15	30.29
15	112.70	110.86	108.73	106.43	104.01	101.52
20	180.40	178.53	176.01	173.05	169.79	166.31
25	231.15	230.14	228.06	225.23	221.85	218.06
30	274.31	274.78	273.70	271.51	268.48	264.83
SITE INDEX 70						
10	53.28	52.08	50.82	49.53	48.21	46.89
15	177.97	175.06	171.70	168.07	164.25	160.32
20	277.10	274.22	270.35	265.80	260.79	255.44
25	342.42	340.92	337.85	333.65	328.64	323.04
30	392.52	393.19	391.65	388.51	384.19	378.96
SITE INDEX 80						
10	82.47	80.62	78.67	76.66	74.63	72.59
15	281.05	276.44	271.14	265.40	259.37	253.16
20	425.61	421.19	415.25	408.27	400.56	392.35

APPENDIX TABLE 12. GREEN WEIGHT YIELD OF WOOD ONLY TO A 3-INCH
TOP DIAMETER, OUTSIDE BARK, FOR UNTHINNED, OLD-FIELD LOBLOLLY
PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
THOUSAND POUNDS PER ACRE						
SITE INDEX 50						
10	18.85	18.40	17.93	17.45	16.97	16.48
15	62.73	61.62	60.36	59.00	57.58	56.13
20	104.61	103.37	101.77	99.92	97.90	95.77
25	139.67	138.85	137.40	135.50	133.28	130.83
30	171.87	171.90	170.98	169.36	167.24	164.73
SITE INDEX 60						
10	29.46	28.77	28.03	27.28	26.52	25.76
15	100.10	98.33	96.31	94.14	91.88	89.57
20	162.25	160.34	157.85	154.99	151.85	148.54
25	208.76	207.55	205.38	202.54	199.22	195.55
30	247.95	248.00	246.67	244.34	241.27	237.66
SITE INDEX 70						
10	46.06	44.97	43.83	42.65	41.47	40.28
15	159.73	156.90	153.68	150.23	146.62	142.92
20	251.66	248.69	244.84	240.40	235.54	230.40
25	312.04	310.22	306.98	302.74	297.78	292.30
30	357.72	357.79	355.86	352.50	348.08	342.87
SITE INDEX 80						
10	72.02	70.31	68.52	66.68	64.83	62.97
15	254.88	250.36	245.23	239.71	233.95	228.05
20	390.35	385.74	379.77	372.87	365.34	357.37

APPENDIX TABLE 13. GREEN WEIGHT YIELD OF WOOD AND BARK TO A
4-INCH TOP DIAMETER, OUTSIDE BARK, FOR UNTHINNED, OLD-FIELD
LOBLOLLY PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
THOUSAND POUNDS PER ACRE						
SITE INDEX 50						
10	15.32	14.88	14.43	13.97	13.51	13.06
15	59.02	57.65	56.17	54.61	53.03	51.42
20	103.55	101.74	99.60	97.26	94.78	92.22
25	140.74	139.07	136.81	134.16	131.23	128.11
30	173.84	172.77	170.80	168.19	165.12	161.73
SITE INDEX 60						
10	24.92	24.20	23.46	22.72	21.98	21.24
15	98.14	95.87	93.41	90.82	88.18	85.52
20	166.98	164.05	160.61	156.83	152.83	148.71
25	217.98	215.39	211.90	207.78	203.24	198.42
30	259.07	257.47	254.52	250.63	246.07	241.02
SITE INDEX 70						
10	40.53	39.36	38.16	36.95	35.75	34.55
15	163.22	159.44	155.34	151.04	146.65	142.22
20	269.25	264.53	258.98	252.88	246.44	239.79
25	337.61	333.61	328.19	321.82	314.79	307.31
30	386.06	383.69	379.30	373.50	366.70	359.17
SITE INDEX 80						
10	65.91	64.02	62.07	60.10	58.14	56.19
15	271.43	265.15	258.33	251.19	243.88	236.51
20	434.16	426.56	417.60	407.77	397.39	386.66

APPENDIX TABLE 14. GREEN WEIGHT YIELD OF WOOD ONLY TO A 4-INCH
TOP DIAMETER, OUTSIDE BARK, FOR UNTHINNED, OLD-FIELD LOBLOLLY
PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
THOUSAND POUNDS PER ACRE						
SITE INDEX 50						
10	12.85	12.46	12.06	11.66	11.26	10.87
15	51.77	50.48	49.10	47.67	46.21	44.74
20	92.21	90.43	88.37	86.15	83.81	81.42
25	125.90	124.16	121.92	119.33	116.52	113.56
30	155.53	154.25	152.18	149.57	146.58	143.32
SITE INDEX 60						
10	21.15	20.51	19.86	19.20	18.54	17.90
15	87.19	85.02	82.70	80.28	77.83	75.36
20	150.47	147.56	144.21	140.57	136.77	132.86
25	197.13	194.41	190.90	186.85	182.45	177.81
30	234.09	232.16	229.05	225.12	220.62	215.71
SITE INDEX 70						
10	34.82	33.77	32.69	31.60	30.53	29.46
15	146.85	143.20	139.28	135.22	131.08	126.92
20	245.53	240.79	235.32	229.39	223.17	216.79
25	308.66	304.40	298.90	292.57	285.68	278.41
30	352.34	349.43	344.75	338.83	332.06	324.67
SITE INDEX 80						
10	57.33	55.59	53.82	52.03	50.25	48.50
15	247.32	241.18	234.59	227.74	220.76	213.76
20	400.66	392.92	383.99	374.31	364.17	353.76

APPENDIX TABLE 15. DRY WEIGHT YIELD OF WOOD ONLY FOR THE TOTAL STEM OF UNTHINNED, OLD-FIELD LOBLOLLY PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
THOUSAND POUNDS PER ACRE						
SITE INDEX 50						
10	12.62	13.03	13.43	13.81	14.19	14.55
15	32.34	33.67	34.92	36.13	37.30	38.44
20	51.44	53.97	56.36	58.64	60.84	63.00
25	70.32	74.37	78.17	81.81	85.32	88.74
30	91.08	97.09	102.73	108.13	113.35	118.43
SITE INDEX 60						
10	17.49	18.06	18.61	19.14	19.66	20.17
15	45.50	47.37	49.13	50.83	52.47	54.08
20	70.89	74.38	77.66	80.80	83.84	86.81
25	94.32	99.75	104.85	109.73	114.44	119.03
30	119.05	126.90	134.28	141.33	148.15	154.79
SITE INDEX 70						
10	24.24	25.04	25.80	26.53	27.25	27.96
15	64.02	66.65	69.13	71.51	73.82	76.09
20	97.68	102.50	107.02	111.35	115.54	119.63
25	126.52	133.80	140.64	147.18	153.49	159.65
30	155.60	165.86	175.50	184.72	193.63	202.32
SITE INDEX 80						
10	33.60	34.70	35.76	36.78	37.77	38.76
15	90.07	93.76	97.25	100.61	103.86	107.05
20	134.61	141.24	147.48	153.45	159.22	164.86

APPENDIX TABLE 16. DRY WEIGHT YIELD OF WOOD ONLY TO A 3-INCH TOP DIAMETER, OUTSIDE BARK, FOR UNTHINNED, OLD-FIELD Loblolly Pine Plantations.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
THOUSAND POUNDS PER ACRE						
SITE INDEX 50						
10	8.53	8.36	8.18	7.99	7.80	7.61
15	28.37	27.98	27.51	27.00	26.46	25.90
20	47.86	47.48	46.93	46.26	45.50	44.69
25	64.74	64.60	64.18	63.54	62.74	61.83
30	80.59	80.90	80.77	80.32	79.62	78.73
SITE INDEX 60						
10	12.94	12.68	12.41	12.12	11.83	11.54
15	43.86	43.26	42.54	41.75	40.91	40.04
20	72.07	71.50	70.66	69.65	68.52	67.29
25	94.17	93.98	93.35	92.42	91.27	89.94
30	113.41	113.86	113.68	113.04	112.05	110.81
SITE INDEX 70						
10	19.62	19.24	18.82	18.39	17.95	17.51
15	67.82	66.88	65.77	64.54	63.24	61.90
20	108.52	107.65	106.40	104.88	103.17	101.32
25	136.98	136.70	135.80	134.44	132.76	130.83
30	159.61	160.24	159.99	159.09	157.70	155.95
SITE INDEX 80						
10	29.77	29.18	28.55	27.89	27.23	26.56
15	104.85	103.39	101.68	99.79	97.78	95.70
20	163.40	162.09	160.21	157.92	155.34	152.56

APPENDIX TABLE 17. DRY WEIGHT YIELD OF WOOD ONLY TO A 4-INCH TOP DIAMETER, OUTSIDE BARK, FOR UNTHINNED, OLD-FIELD LOBLOLLY PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
THOUSAND POUNDS PER ACRE						
SITE INDEX 50						
10	6.08	5.92	5.76	5.60	5.43	5.26
15	23.84	23.36	22.83	22.27	21.69	21.10
20	42.69	42.08	41.33	40.48	39.58	38.63
25	59.10	58.59	57.83	56.89	55.83	54.67
30	74.18	73.97	73.37	72.48	71.39	70.15
SITE INDEX 60						
10	9.65	9.40	9.15	8.88	8.62	8.36
15	38.65	37.88	37.02	36.11	35.17	34.21
20	67.22	66.26	65.08	63.75	62.32	60.83
25	89.57	88.80	87.64	86.22	84.61	82.86
30	108.37	108.07	107.19	105.89	104.30	102.49
SITE INDEX 70						
10	15.32	14.93	14.52	14.10	13.68	13.27
15	62.68	61.42	60.03	58.56	57.03	55.48
20	105.85	104.34	102.47	100.38	98.13	95.78
25	135.74	134.58	132.83	130.67	128.23	125.58
30	158.33	157.89	156.60	154.71	152.39	149.74
SITE INDEX 80						
10	24.33	23.70	23.05	22.39	21.73	21.06
15	101.64	99.60	97.35	94.95	92.48	89.97
20	166.68	164.30	161.36	158.07	154.53	150.83

APPENDIX TABLE 18. BOARD FOOT YIELD, INTERNATIONAL 1/4 INCH, TO
A 6-INCH TOP DIAMETER, INSIDE BARK, FOR UNTHINNED, OLD-FIELD
LOBLOLLY PINE PLANTATIONS.

AGE	TREES PER ACRE					
	500	600	700	800	900	1000
BOARD FEET PER ACRE						
SITE INDEX 50						
10	2	1	1	1	0	0
15	141	104	76	56	41	30
20	821	604	444	326	239	175
25	1832	1349	993	730	537	394
30	2746	2026	1493	1099	808	594
SITE INDEX 60						
10	5	4	3	2	1	1
15	510	374	275	202	148	108
20	2744	2019	1484	1090	800	587
25	5532	4076	2999	2205	1620	1190
30	7523	5551	4090	3011	2214	1628
SITE INDEX 70						
10	18	13	10	7	5	4
15	1842	1353	993	729	534	392
20	9176	6750	4961	3643	2674	1962
25	16707	12310	9059	6660	4894	3594
30	20611	15209	11207	8249	6067	4460

APPENDIX TABLE 19. MULTIPLE-PRODUCT YIELDS OF PULPWOOD IN CUBIC FEET OF WOOD AND BARK TO A 3-INCH TOP DIAMETER, OUTSIDE BARK, AND SAWTIMBER IN BOARD FEET, INTERNATIONAL 1/4 INCH, FOR UNTHINNED, OLD-FIELD LOBLOLLY PINE PLANTATIONS.

SITE INDEX 50

AGE	TREES PER ACRE	MULTIPLE PRODUCTS		
		ALL TREES AS PULPWOOD	SAWTIMBER	PULPWOOD
YEARS	NUMBER	CU. FT.	BD. FT.	CU. FT.
10	500	515	2	513
10	600	506	1	504
10	700	496	1	495
10	800	485	1	485
10	900	475	0	474
10	1000	464	0	464
15	500	1454	141	1386
15	600	1438	104	1385
15	700	1417	76	1376
15	800	1393	56	1362
15	900	1368	41	1344
15	1000	1342	30	1323
20	500	2282	821	1985
20	600	2269	604	2039
20	700	2247	444	2070
20	800	2220	326	2083
20	900	2189	239	2083
20	1000	2154	175	2072
25	500	2970	1832	2389
25	600	2971	1349	2521
25	700	2959	993	2610
25	800	2936	730	2667
25	900	2906	537	2698
25	1000	2870	394	2709
30	500	3616	2746	2801
30	600	3640	2026	3008
30	700	3643	1493	3154
30	800	3632	1099	3253
30	900	3608	808	3315
30	1000	3576	594	3350

APPENDIX TABLE 19. (CONTINUED).

SITE INDEX 60				
AGE	TREES PER ACRE	ALL TREES AS PULPWOOD	MULTIPLE	PRODUCTS
			SAWTIMBER	PULPWOOD
YEARS	NUMBER	CU. FT.	BD. FT.	CU. FT.
10	500	769	5	765
10	600	756	4	752
10	700	741	3	738
10	800	725	2	723
10	900	710	1	708
10	1000	693	1	692
15	500	2214	510	2015
15	600	2188	374	2034
15	700	2156	275	2038
15	800	2121	202	2029
15	900	2083	148	2012
15	1000	2042	108	1988
20	500	3385	2744	2571
20	600	3366	2019	2736
20	700	3335	1484	2848
20	800	3295	1090	2918
20	900	3248	800	2957
20	1000	3196	587	2972
25	500	4262	5532	2798
25	600	4264	4076	3130
25	700	4246	2999	3369
25	800	4214	2205	3535
25	900	4170	1620	3646
25	1000	4119	1190	3714
30	500	5027	7523	3133
30	600	5060	5551	3592
30	700	5065	4090	3927
30	800	5049	3011	4168
30	900	5017	2214	4336
30	1000	4972	1628	4446

APPENDIX TABLE 19. (CONTINUED).

AGE	TREES PER ACRE	SITE INDEX 70		
		ALL TREES AS PULPWOOD		MULTIPLE PRODUCTS
		SAWTIMBER	PULPWOOD	
YEARS	NUMBER	CU. FT.	BD. FT.	CU. FT.
10	500	1150	18	1138
10	600	1129	13	1120
10	700	1107	10	1100
10	800	1084	7	1079
10	900	1060	5	1056
10	1000	1036	4	1033
15	500	3370	1842	2786
15	600	3331	1353	2880
15	700	3282	993	2934
15	800	3228	729	2960
15	900	3170	534	2963
15	1000	3109	392	2949
20	500	5024	9176	2787
20	600	4995	6750	3266
20	700	4949	4961	3612
20	800	4889	3643	3856
20	900	4819	2674	4022
20	1000	4743	1962	4128
25	500	6118	16707	2426
25	600	6121	12310	3261
25	700	6095	9059	3882
25	800	6048	6660	4338
25	900	5986	4894	4664
25	1000	5912	3594	4891
30	500	6989	20611	2589
30	600	7035	15209	3623
30	700	7042	11207	4399
30	800	7019	8249	4974
30	900	6975	6067	5393
30	1000	6913	4460	5690

APPENDIX TABLE 20. MULTIPLE-PRODUCT YIELDS OF PULPWOOD IN CUBIC FEET OF WOOD ONLY TO A 3-INCH TOP DIAMETER, OUTSIDE BARK, AND SAWTIMBER IN BOARD FEET, INTERNATIONAL 1/4 INCH, FCR UNTHINNED, OLD-FIELD Loblolly Pine Plantations.

SITE INDEX 50				
AGE	TREES PER ACRE	MULTIPLE PRODUCTS		
		ALL TREES AS PULPWOOD	SAWTIMBER	PULPWOOD
YEARS	NUMBER	CU. FT.	BD. FT.	CU. FT.
10	500	362	2	361
10	600	355	1	354
10	700	347	1	346
10	800	339	1	339
10	900	331	0	331
10	1000	323	0	323
15	500	1079	141	1029
15	600	1064	104	1026
15	700	1046	76	1017
15	800	1027	56	1005
15	900	1006	41	989
15	1000	985	30	972
20	500	1727	821	1507
20	600	1714	604	1545
20	700	1694	444	1564
20	800	1671	326	1570
20	900	1644	239	1567
20	1000	1614	175	1555
25	500	2269	1832	1833
25	600	2265	1349	1929
25	700	2251	993	1992
25	800	2229	730	2030
25	900	2202	537	2049
25	1000	2171	394	2053
30	500	2774	2746	2160
30	600	2787	2026	2313
30	700	2784	1493	2418
30	800	2770	1099	2488
30	900	2747	808	2530
30	1000	2717	594	2550

APPENDIX TABLE 20. (CONTINUED).

AGE	TREES PER ACRE	SITE INDEX 60			MULTIPLE PRODUCTS	
		ALL TREES AS PULPWOOD		SAWTIMBER		
		CU. FT.	BD. FT.			
YEARS	NUMBER				CU. FT.	
10	500	549	5		546	
10	600	538	4		536	
10	700	526	3		525	
10	800	514	2		513	
10	900	502	1		501	
10	1000	490	1		489	
15	500	1667	510		1521	
15	600	1645	374		1532	
15	700	1618	275		1531	
15	800	1588	202		1521	
15	900	1556	148		1505	
15	1000	1523	108		1484	
20	500	2600	2744		1986	
20	600	2581	2019		2108	
20	700	2551	1484		2187	
20	800	2515	1090		2235	
20	900	2475	800		2260	
20	1000	2431	587		2265	
25	500	3300	5532		2185	
25	600	3295	4076		2435	
25	700	3274	2999		2612	
25	800	3243	2205		2733	
25	900	3203	1620		2811	
25	1000	3157	1190		2856	
30	500	3904	7523		2457	
30	600	3923	5551		2805	
30	700	3918	4090		3056	
30	800	3898	3011		3234	
30	900	3866	2214		3354	
30	1000	3824	1628		3430	

APPENDIX TABLE 20. (CONTINUED).

AGE	TREES PER ACRE	SITE INDEX 70		
		ALL TREES AS PULPWOOD		MULTIPLE PRODUCTS
		SAWTIMBER	PULPWOOD	
YEARS	NUMBER	CU. FT.	BD. FT.	CU. FT.
10	500	832	18	824
10	600	816	13	810
10	700	798	10	794
10	800	780	7	776
10	900	762	5	759
10	1000	743	4	740
15	500	2578	1842	2140
15	600	2543	1353	2206
15	700	2501	993	2242
15	800	2455	729	2256
15	900	2405	534	2253
15	1000	2354	392	2237
20	500	3915	9176	2202
20	600	3885	6750	2566
20	700	3841	4961	2826
20	800	3787	3643	3006
20	900	3726	2674	3125
20	1000	3660	1962	3198
25	500	4800	16707	1947
25	600	4793	12310	2593
25	700	4763	9059	3068
25	800	4717	6660	3412
25	900	4659	4894	3655
25	1000	4592	3594	3820
30	500	5495	20611	2085
30	600	5520	15209	2887
30	700	5514	11207	3483
30	800	5486	8249	3921
30	900	5440	6067	4235
30	1000	5381	4460	4453

APPENDIX TABLE 21. MULTIPLE-PRODUCT YIELDS OF PULPWOOD IN CUBIC FEET OF WOOD AND BARK TO A 4-INCH TOP DIAMETER, OUTSIDE BARK, AND SAWTIMBER IN BOARD FEET, INTERNATIONAL 1/4 INCH, FOR UNTHINNED, OLD-FIELD LOBLOLLY PINE PLANTATIONS.

AGE	TREES PER ACRE	SITE INDEX 50		
		MULTIPLE PRODUCTS		
		ALL TREES AS PULPWOOD	SAWTIMBER	PULPWOOD
YEARS	NUMBER	CU. FT.	BD. FT.	CU. FT.
10	500	376	2	375
10	600	367	1	366
10	700	358	1	357
10	800	349	1	348
10	900	340	0	339
10	1000	330	0	330
15	500	1225	141	1160
15	600	1205	104	1154
15	700	1181	76	1142
15	800	1155	56	1125
15	900	1128	41	1105
15	1000	1101	30	1083
20	500	2028	821	1739
20	600	2006	604	1783
20	700	1977	444	1805
20	800	1942	326	1810
20	900	1905	239	1802
20	1000	1864	175	1786
25	500	2701	1832	2132
25	600	2687	1349	2248
25	700	2662	993	2322
25	800	2627	730	2365
25	900	2586	537	2384
25	1000	2541	394	2385
30	500	3321	2746	2520
30	600	3325	2026	2705
30	700	3310	1493	2831
30	800	3282	1099	2912
30	900	3243	808	2958
30	1000	3197	594	2977

APPENDIX TABLE 21. (CONTINUED).

SITE INDEX 60					
AGE	TREES PER ACRE	ALL TREES AS PULPWOOD	MULTIPLE PRODUCTS		
			SAWTIMBER	PULPWOOD	
YEARS	NUMBER	CU. FT.	BD. FT.	CU. FT.	
10	500	584	5	580	
10	600	571	4	568	
10	700	557	3	555	
10	800	542	2	541	
10	900	528	1	526	
10	1000	513	1	512	
15	500	1944	510	1750	
15	600	1911	374	1762	
15	700	1873	275	1758	
15	800	1832	202	1744	
15	900	1790	148	1722	
15	1000	1746	108	1694	
20	500	3128	2744	2327	
20	600	3094	2019	2476	
20	700	3048	1484	2572	
20	800	2995	1090	2628	
20	900	2937	800	2654	
20	1000	2875	587	2658	
25	500	4016	5532	2569	
25	600	3996	4076	2878	
25	700	3958	2999	3095	
25	800	3906	2205	3241	
25	900	3845	1620	3332	
25	1000	3778	1190	3382	
30	500	4769	7523	2893	
30	600	4774	5551	3323	
30	700	4753	4090	3631	
30	800	4712	3011	3846	
30	900	4657	2214	3989	
30	1000	4591	1628	4076	

APPENDIX TABLE 21. (CONTINUED).

SITE INDEX 70				
AGE	TREES PER ACRE	ALL TREES AS PULPWOOD	MULTIPLE	PRODUCTS
			SAWTIMBER	PULPWOOD
YEARS	NUMBER	CU. FT.	BD. FT.	CU. FT.
10	500	908	18	897
10	600	888	13	879
10	700	866	10	859
10	800	843	7	838
10	900	820	5	816
10	1000	797	4	794
15	500	3082	1842	2510
15	600	3030	1353	2589
15	700	2970	993	2631
15	800	2906	729	2645
15	900	2838	534	2637
15	1000	2769	392	2614
20	500	4824	9176	2606
20	600	4771	6750	3060
20	700	4701	4961	3381
20	800	4620	3643	3602
20	900	4530	2674	3746
20	1000	4434	1962	3831
25	500	5971	16707	2293
25	600	5942	12310	3099
25	700	5885	9059	3691
25	800	5808	6660	4116
25	900	5718	4894	4413
25	1000	5617	3594	4612
30	500	6847	20611	2455
30	600	6855	15209	3457
30	700	6824	11207	4198
30	800	6765	8249	4738
30	900	6686	6067	5122
30	1000	6592	4460	5385

APPENDIX TABLE 22. MULTIPLE-PRODUCT YIELDS OF PULPWOOD IN CUBIC FEET OF WOOD ONLY TO A 4-INCH TOP DIAMETER, OUTSIDE BARK, AND SAWTIMBER IN BOARD FEET, INTERNATIONAL 1/4 INCH, FOR UNTHINNED, OLD-FIELD LOBLOLLY PINE PLANTATIONS.

SITE INDEX 50						
AGE	TREES PER ACRE	ALL TREES AS PULPWOOD		MULTIPLE PRODUCTS		
		YEARS	NUMBER	CU. FT.	BD. FT.	
CU. FT.	BD. FT.	CU. FT.				
10	500			253	2	252
10	600			247	1	246
10	700			240	1	240
10	800			233	1	233
10	900			226	0	226
10	1000			219	0	219
15	500			892	141	845
15	600			875	104	839
15	700			855	76	827
15	800			834	56	813
15	900			812	41	796
15	1000			790	30	778
20	500			1518	821	1305
20	600			1497	604	1333
20	700			1471	444	1345
20	800			1441	326	1345
20	900			1409	239	1335
20	1000			1375	175	1319
25	500			2043	1832	1618
25	600			2026	1349	1699
25	700			2001	993	1749
25	800			1969	730	1776
25	900			1932	537	1784
25	1000			1893	394	1779
30	500			2519	2746	1918
30	600			2514	2026	2050
30	700			2495	1493	2138
30	800			2466	1099	2192
30	900			2429	808	2219
30	1000			2388	594	2226

APPENDIX TABLE 22. (CONTINUED).

SITE INDEX 60					
AGE	TREES PER ACRE	ALL TREES AS PULPWOOD	MULTIPLE PRODUCTS		
			SAWTIMBER	PULPWOOD	
YEARS	NUMBER	CU. FT.	BD. FT.	CU. FT.	
10	500	402	5	399	
10	600	392	4	390	
10	700	381	3	380	
10	800	370	2	369	
10	900	359	1	358	
10	1000	348	1	347	
15	500	1447	510	1305	
15	600	1418	374	1310	
15	700	1386	275	1303	
15	800	1352	202	1288	
15	900	1317	148	1268	
15	1000	1281	108	1244	
20	500	2391	2744	1789	
20	600	2357	2019	1895	
20	700	2316	1484	1961	
20	800	2269	1090	1997	
20	900	2219	800	2010	
20	1000	2166	587	2006	
25	500	3096	5532	1997	
25	600	3071	4076	2226	
25	700	3032	2999	2383	
25	800	2983	2205	2485	
25	900	2928	1620	2546	
25	1000	2868	1190	2575	
30	500	3681	7523	2251	
30	600	3673	5551	2571	
30	700	3645	4090	2797	
30	800	3602	3011	2951	
30	900	3549	2214	3049	
30	1000	3489	1628	3105	

APPENDIX TABLE 22. (CONTINUED).

SITE INDEX 70				
AGE	TREES PER ACRE	ALL TREES AS PULPWOOD		MULTIPLE PRODUCTS
		CU. FT.	BD. FT.	PULPWOOD
YEARS	NUMBER			
10	500	639	18	631
10	600	622	13	616
10	700	605	10	600
10	800	588	7	584
10	900	570	5	567
10	1000	553	4	551
15	500	2346	1842	1919
15	600	2300	1353	1972
15	700	2248	993	1997
15	800	2193	729	2000
15	900	2136	534	1988
15	1000	2078	392	1965
20	500	3765	9176	2068
20	600	3712	6750	2409
20	700	3647	4961	2646
20	800	3573	3643	2806
20	900	3493	2674	2905
20	1000	3410	1962	2959
25	500	4691	16707	1853
25	600	4653	12310	2470
25	700	4595	9059	2917
25	800	4521	6660	3233
25	900	4438	4894	3449
25	1000	4347	3594	3589
30	500	5377	20611	1978
30	600	5366	15209	2748
30	700	5325	11207	3311
30	800	5263	8249	3715
30	900	5185	6067	3996
30	1000	5097	4460	4184

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APPENDIX TABLE 23. MULTIPLE-PRODUCT YIELDS OF PULPWOOD IN
 STANDARD CORDS OF WOOD AND BARK TO A 3-INCH TOP DIAMETER,
 OUTSIDE BARK, AND SAWTIMBER IN BOARD FEET, INTERNATIONAL 1/4
 INCH, FOR UNTHINNED, OLD-FIELD LOBLOLLY PINE PLANTATIONS.

SITE INDEX 50				
AGE	TREES PER ACRE	MULTIPLE PRODUCTS		
		ALL TREES AS PULPWOOD	SAWTIMBER	PULPWOOD
YEARS	NUMBER	CORDS	BD. FT.	CORDS
10	500	6.1	2	6.1
10	600	6.0	1	6.0
10	700	5.9	1	5.9
10	800	5.8	1	5.8
10	900	5.7	0	5.7
10	1000	5.6	0	5.6
15	500	16.8	141	16.1
15	600	16.7	104	16.1
15	700	16.5	76	16.0
15	800	16.2	56	15.9
15	900	16.0	41	15.7
15	1000	15.7	30	15.5
20	500	26.0	821	22.8
20	600	25.9	604	23.5
20	700	25.7	444	23.8
20	800	25.4	326	24.0
20	900	25.1	239	24.0
20	1000	24.8	175	23.9
25	500	33.4	1832	27.2
25	600	33.5	1349	28.7
25	700	33.4	993	29.7
25	800	33.2	730	30.3
25	900	32.9	537	30.7
25	1000	32.6	394	30.9
30	500	40.2	2746	31.5
30	600	40.5	2026	33.8
30	700	40.6	1493	35.4
30	800	40.6	1099	36.5
30	900	40.4	808	37.3
30	1000	40.1	594	37.7

APPENDIX TABLE 23. (CONTINUED).

SITE INDEX 60				
AGE	TREES PER ACRE	ALL TREES AS PULPWOOD	MULTIPLE PRODUCTS	
			SAWTIMBER	PULPWOOD
YEARS	NUMBER	CORDS	BD. FT.	CORDS
10	500	9.0	5	9.0
10	600	8.9	4	8.9
10	700	8.8	3	8.7
10	800	8.6	2	8.6
10	900	8.4	1	8.4
10	1000	8.3	1	8.3
15	500	25.4	510	23.3
15	600	25.2	374	23.5
15	700	24.9	275	23.6
15	800	24.5	202	23.5
15	900	24.1	148	23.4
15	1000	23.7	108	23.1
20	500	38.3	2744	29.6
20	600	38.1	2019	31.4
20	700	37.9	1484	32.7
20	800	37.5	1090	33.5
20	900	37.0	800	33.9
20	1000	36.5	587	34.2
25	500	47.6	5532	31.9
25	600	47.7	4076	35.6
25	700	47.6	2999	38.2
25	800	47.3	2205	40.1
25	900	47.0	1620	41.4
25	1000	46.5	1190	42.2
30	500	55.6	7523	35.2
30	600	56.0	5551	40.3
30	700	56.2	4090	44.0
30	800	56.1	3011	46.7
30	900	55.8	2214	48.5
30	1000	55.4	1628	49.8

APPENDIX TABLE 23. (CONTINUED).

SITE INDEX 70				
AGE	TREES PER ACRE	ALL TREES AS PULPWOOD	MULTIPLE PRODUCTS	
			SAWTIMBER	PULPWOOD
YEARS	NUMBER	CORDS	BD. FT.	CORDS
10	500	13.4	18	13.3
10	600	13.2	13	13.1
10	700	13.0	10	12.9
10	800	12.8	7	12.7
10	900	12.5	5	12.5
10	1000	12.3	4	12.2
15	500	38.4	1842	32.1
15	600	38.0	1353	33.2
15	700	37.5	993	33.8
15	800	37.0	729	34.2
15	900	36.4	534	34.2
15	1000	35.8	392	34.1
20	500	56.4	9176	32.3
20	600	56.2	6750	37.6
20	700	55.8	4961	41.4
20	800	55.2	3643	44.2
20	900	54.6	2674	46.0
20	1000	53.8	1962	47.3
25	500	67.9	16707	28.1
25	600	68.0	12310	37.2
25	700	67.9	9059	44.1
25	800	67.5	6660	49.1
25	900	66.9	4894	52.8
25	1000	66.3	3594	55.3
30	500	76.8	20611	29.3
30	600	77.4	15209	40.6
30	700	77.6	11207	49.1
30	800	77.5	8249	55.5
30	900	77.1	6067	60.1
30	1000	76.6	4460	63.5

APPENDIX TABLE 24. MULTIPLE-PRODUCT YIELDS OF PULPWOOD IN
STANDARD CORDS OF WOOD AND BARK TO A 4-INCH TOP DIAMETER,
OUTSIDE BARK, AND SAWTIMBER IN BOARD FEET, INTERNATIONAL 1/4
INCH, FOR UNTHINNED, OLD-FIELD LOBLOLLY PINE PLANTATIONS.

SITE INDEX 50				
AGE	TREES PER ACRE	MULTIPLE PRODUCTS		
		ALL TREES AS PULPWOOD	SAWTIMBER	PULPWOOD
YEARS	NUMBER	CORDS	BD. FT.	CORDS
10	500	4.5	2	4.4
10	600	4.4	1	4.4
10	700	4.3	1	4.3
10	800	4.2	1	4.2
10	900	4.1	0	4.1
10	1000	4.0	0	4.0
15	500	14.1	141	13.4
15	600	13.9	104	13.4
15	700	13.7	76	13.3
15	800	13.4	56	13.1
15	900	13.2	41	12.9
15	1000	12.9	30	12.7
20	500	23.1	821	20.0
20	600	22.8	604	20.5
20	700	22.6	444	20.7
20	800	22.2	326	20.8
20	900	21.8	239	20.7
20	1000	21.4	175	20.6
25	500	30.3	1832	24.2
25	600	30.2	1349	25.5
25	700	30.0	993	26.4
25	800	29.7	730	26.9
25	900	29.3	537	27.1
25	1000	28.8	394	27.1
30	500	36.9	2746	28.3
30	600	37.0	2026	30.3
30	700	36.8	1493	31.7
30	800	36.6	1099	32.6
30	900	36.2	808	33.2
30	1000	35.8	594	33.4

APPENDIX TABLE 24. (CONTINUED).

SITE INDEX 60

AGE	TREES PER ACRE	ALL TREES AS PULPWOOD	MULTIPLE PRODUCTS	
			SAWTIMBER	PULPWOOD
YEARS	NUMBER	CORDS	BD. FT.	CORDS
10	500	6.9	5	6.8
10	600	6.7	4	6.7
10	700	6.6	3	6.6
10	800	6.4	2	6.4
10	900	6.3	1	6.3
10	1000	6.1	1	6.1
15	500	22.3	510	20.2
15	600	21.9	374	20.3
15	700	21.5	275	20.3
15	800	21.1	202	20.2
15	900	20.7	148	20.0
15	1000	20.2	108	19.7
20	500	35.3	2744	26.7
20	600	35.0	2019	28.4
20	700	34.5	1484	29.4
20	800	34.0	1090	30.1
20	900	33.4	800	30.4
20	1000	32.8	587	30.5
25	500	44.8	5532	29.3
25	600	44.6	4076	32.7
25	700	44.3	2999	35.0
25	800	43.8	2205	36.7
25	900	43.2	1620	37.7
25	1000	42.5	1190	38.3
30	500	52.6	7523	32.5
30	600	52.7	5551	37.2
30	700	52.6	4090	40.6
30	800	52.2	3011	43.0
30	900	51.7	2214	44.6
30	1000	51.1	1628	45.6

APPENDIX TABLE 24. (CONTINUED).

SITE INDEX 70				
AGE	TREES PER ACRE	ALL TREES AS PULPWOOD	MULTIPLE	PRODUCTS
			SAWTIMBER	PULPWOOD
YEARS	NUMBER	CORDS	BD. FT.	CORDS
10	500	10.6	18	10.5
10	600	10.4	13	10.3
10	700	10.1	10	10.1
10	800	9.9	7	9.9
10	900	9.7	5	9.6
10	1000	9.4	4	9.4
15	500	35.0	1842	28.9
15	600	34.5	1353	29.8
15	700	33.9	993	30.3
15	800	33.3	729	30.5
15	900	32.6	534	30.4
15	1000	31.8	392	30.2
20	500	54.0	9176	30.3
20	600	53.5	6750	35.2
20	700	52.9	4961	38.7
20	800	52.1	3643	41.2
20	900	51.2	2674	42.8
20	1000	50.2	1962	43.8
25	500	66.1	16707	26.7
25	600	65.9	12310	35.5
25	700	65.4	9059	41.9
25	800	64.7	6660	46.6
25	900	63.8	4894	49.8
25	1000	62.8	3594	52.1
30	500	75.1	20611	28.0
30	600	75.3	15209	38.9
30	700	75.0	11207	46.9
30	800	74.5	8249	52.8
30	900	73.8	6067	57.0
30	1000	72.9	4460	60.0

