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Growth and Yield Predictions for Thinned Stands of Even-aged Natural Longleaf Pine

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Experiment
Station

SUMMARY

This paper presents a system of equations and resulting tables that **can** predict stand volumes for thinned natural **longleaf** pine. The system can predict current and **future** total stand volume in cubic feet and merchantable stand volume in cubic feet, cords, and board feet. The system also provides for estimating dry-weight production of wood. The system uses input data on present and future age, site index, and present basal area. By using the tables, the timber grower **can** predict volume production for a variety of initial stand conditions, thinning regimes, and rotation lengths.

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INTRODUCTION

Interest in longleaf pine (*Pinus palustris* Mill.) is enjoying a revival. Encouraged by longleaf's high quality and marketability, many landowners are taking advantage of recent improvements in longleaf regeneration techniques (Mann 1969, 1970; Croker and Boyer 1975) and growing it today.

For successful longleaf management, timber growers must be able to predict growth and yield for various management alternatives. Some guidance exists in yield tables for unthinned stands (Schumacher and Coile 1960; U.S. Department of Agriculture, Forest Service, 1976), and several reports on thinning study results (for example, Chapman 1951, Gaines 1951; Farrar 1968, 1974).

This information, though useful, fails to give needed growth and yield predictions for a comprehensive array of stand ages, site qualities, and residual densities maintained by periodic thinning. To meet this need, the Southern Forest Experiment Station established a regional longleaf pine growth study starting in the mid-1960's.

Using data from the first 5-year growth period, this paper describes a system for predicting growth and yield in total stand volume in cubic feet, and merchantable stand volume in cubic feet, cords, and board feet (fbm). The system can also estimate dry-weight production of wood.

METHODS

Field Procedures

The study comprises 175 permanent 1/5-acre plots, established with the cooperation of public and private landowners (see Acknowledgments), in even-aged natural stands of longleaf pine, in northwest Florida, southwest Georgia, south and central Alabama, and south Mississippi.

Plots were chosen in a broad array of stand age, site index, and residual basal area classes (table 1). To be chosen, plots had to be at least 80 percent longleaf, by basal area, before cutting (100 percent after cut); uniform in age, site index, and density; and free of damage from insects, disease, wildfire, turpentining, etc. All hardwoods with d.b.h. ≥ 1 inch were killed initially.

Most plots have been prescription-burned every 3-5 years. This prescribed burning is intended to control woody vegetation regrowth and reduce wildfire hazard.

Initial field measurements included numbering and tallying all living longleaf stems with d.b.h. ≥ 0.6 inch and recording crown class (SAF 1958) for each tree. For height determination, a sample of trees was mechanically

¹Farrar (1978) details all field procedures and most analysis methods.

selected from each 1-inch d.b.h. class (see Farrar 1978). A subsample of dominant and codominant trees was chosen for stand age and site index determination.

All trees with d.b.h. < 0.6 inch were destroyed. Plots were thinned mostly from below. This thinning left specified residual basal areas.

Field procedures are the same at remeasurement, which is done every 5 years. The amount and causes of mortality are identified. Plots are rethinned to initial levels if their basal area has grown more than 1/4 of the way toward midpoint of the next higher basal-area class.

Data Summary

I calculated plot volumes per acre by using regression to predict total height for each living tree given its observed d.b.h., in inches, (D). Then, D and predicted total height, in feet, ($\hat{H}$) were used as arguments in the following equations:

- (1) $M\hat{V}I_0 = 0.00535 + 0.0021971(D^2\hat{H})$
- (2) $M\hat{V}O_0 = (M\hat{V}I_0)(1 + (10^{-0.30925})(M\hat{V}I_0)^{-0.21895})$
- (3) $M\hat{V}I_3 = (M\hat{V}I_0)/(1 + (10^{-0.5493})(M\hat{V}I_0)^{-1.3024})$
- (4) $M\hat{V}O_3 = (M\hat{V}I_3)(1 + (10^{-0.30925})(M\hat{V}I_3)^{-0.21895})$
- (5) $M\hat{V}I_7 = (M\hat{V}I_0)/(1 + (10^{1.161})(M\hat{V}I_0)^{-1.5844})$
- (6) $M\hat{V}O_7 = (M\hat{V}I_7)(1 + (10^{-0.30925})(M\hat{V}I_7)^{-0.21895})$
- (7) $F\hat{B}M = -10.385 + 0.70341(\hat{H}) - 0.011555(\hat{H}^2) - 0.000041104(\hat{H}^3) - 0.54873(D^2) + 0.010111(D^2\hat{H}) + 0.00023546(D^2\hat{H}^2) - 0.002509(D^4) + 0.000096682(D^4\hat{H}) - 0.0000013064(D^4\hat{H}^2) + 0.0000063791(D^6) - 0.00000018759(D^6\hat{H}) + 0.000000018927(D^6\hat{H}^2)$

where:

$M\hat{V}I_0$ = predicted tree total volume, i.b., in **cubic feet**; d.b.h. ≥ 0.6 inch; 0.2-ft stump

$M\hat{V}O_0$ = predicted tree total volume, o.b., in cubic feet; d.b.h. ≥ 0.6 inch; 0.2-ft stump

$M\hat{V}I_3$ = predicted tree merchantable volume, i.b., in cubic feet; d.b.h. ≥ 3.6 inches; top d.o.b. = 3 inches; 0.2-ft stump

$M\hat{V}O_3$ = predicted tree merchantable volume, o.b., in cubic feet; d.b.h. ≥ 3.6 inches; top d.o.b. = 3 inches; 0.2-ft stump

$M\hat{V}I_7$ = predicted tree merchantable volume, i.b., in cubic feet; d.b.h. ≥ 7.6 inches; top d.o.b. = 7 inches; 0.2-ft stump

$M\hat{V}O_7$ = predicted tree merchantable volume, o.b., in cubic feet; d.b.h. ≥ 7.6 inches; top d.o.b. = 7 inches; 0.2-ft stump

$F\hat{B}M$ = predicted tree volume, in board feet; Int. 1/4-inch rule; d.b.h. ≥ 6 inches; top d.i.b. = 5 inches; 1-ft stump.

Equation 1 is from Farrar (1978) and is based on observed volume data from 224 felled natural longleaf trees. Equations 2-6 are also derived from these data. Equations 1-6 account for about 97.4 to 99.0 percent of the variation around mean observed volumes and have root mean square deviations of 2.04 to 3.32 ft³. Equation 7 was developed from table 13 of Misc. Publ. 50 (U.S. Dep. Agric. For. Serv. 1976). Tabular data for 72 trees with d.b.h. ≥ 6 inches, and observations on 7 larger trees (up to 22 inches d.b.h.), were used to develop equation 7. Fit statistics for equation 7 are: $R^2 = 0.995$; $S_{y,x} = \pm 10.5$.

Living-tree volumes were summed and converted to an acre basis. This operation gives:

TVI_1 = initial stand total volume, i.b., in cubic feet; d.b.h. ≥ 0.6 inch; 0.2-ft stump

TVI_2 = final value for TVI at the end of the 5-year period

TVO_1 = initial stand total volume, o.b., in cubic feet; d.b.h. ≥ 0.6 inch; 0.2-ft stump

Table 1.-Distribution of plots at *beginning of 5-year growth period* according to site index, age, and residual basal area

Site index (feet)	Age (years)	Basal area per acre (square feet)					
		<16	16 to 45	46 to 75	76 to 105	106 to 135	≥ 136
-----No. of Plots-----							
46 to 55	11 to 30	1	2	.....			
	31 to 50	.....	1	2	3	2	.....
	51 to 70	.....	1	.....	1	1	1
	71 to 90		1	1	1	1	.....
56 to 65	11 to 30	2	7	2	.....		
	31 to 50	.....	2	2	2	3	1
	51 to 70	.....	2	3	1	1	2
	71 to 90	.....	1	.....	1	.....	
66 to 75	11 to 30	1	7	7	.....	1	.....
	31 to 50	.....	3	1	4	2	2
	51 to 70	.....	2	4	5	5	1
	71 to 90	.....	1	2	2	.....	1
76 to 85	11 to 30	.....	1	2	2	2	1
	31 to 50	.....	1	2	2	2	3
	51 to 70	.....	3	3	2	2	2
	71 to 90	.....	.....	.....	1	.....	
86 to 95	11 to 30	.....	.....	.....	.....	.....	.....
	31 to 50	.....	2	1	.....	.....	.....
	51 to 70	.....	1	1	.....	1	.....
	71 to 90	.....	.....	.....	.....	.....	.....

TVO_2 =final value for TVO at the end of the 5-year period

$V4I_1$ =initial stand merchantable volume, i.b., in cubic feet; d.b.h. ≥ 3.6 inches; top d.o.b.=3 inches; 0.2-ft stump

$V4I_2$ =final value for $V4I$ at the end of the 5-year period

$V4O_1$ =initial stand merchantable volume, o.b., in cubic feet; d.b.h. ≥ 3.6 inches; top d.o.b.=3 inches; 0.2-ft stump

$V4O_2$ =final value for $V4O$ at the end of the 5-year period

$V10I_1$ =initial stand merchantable volume, i.b., in cubic feet; d.b.h. ≥ 9.6 inches; top d.o.b.=7 inches; 0.2-ft stump

$V10I_2$ =final value for $V10I$ at the end of the 5-year period

$V10O_1$ =initial stand merchantable volume, o.b., in cubic feet; d.b.h. ≥ 9.6 inches; top d.o.b.=7 inches; 0.2-ft stump

$V10O_2$ =final value for $V10O$ at the end of the 5-year period

BF_1 =initial stand volume, in board feet; d.b.h. ≥ 9.6 inches; top d.i.b.=5 inches; 1-ft stump

BF_2 =final value for BF at the end of the 5-year period.

Quadratic-mean stand d.b.h. was calculated as:

$\bar{D}_1$ =initial quadratic-mean d.b.h. in inches, d.b.h. ≥ 0.6 inches

$\bar{D}_2$ =final value for $\bar{D}$ at the end of the 5-year period.

Stand basal areas were calculated for all living trees at the start (B_1) and end (B_2) of the period by:

$$(8) \quad B = 0.005454 \left(\sum_{j=1}^n (D_j^2) \right) (K)$$

where:

B =stand basal areas per acre on the plot, d.b.h. ≥ 0.6 inch

D_j =d.b.h. of the j th tree on the plot

K =appropriate per-acre conversion factor

n =number of trees on the plot.

I predicted stand site index by calculating plot average age (A) and average dominant height (H_D) for the sample dominant and codominant trees. Tree age, dated from seed, is the ring count at 4-ft height plus 7 years. Plot A and H_D were then used in the following equation:

$$(9) \quad S = (H_D)(10.)^{\{f(50)-f(A)\}}$$

where:

S =stand site index in feet; index age 50 years

$$f(50) = b_1/50 + b_2/(50)^2 + b_3/(50)^3 + b_4/(50)^4$$

$$f(A) = b_1/A + b_2/A^2 + b_3/A^3 + b_4/A^4$$

$$b_1 = -29.468$$

$$b_2 = 938.97$$

$$b_3 = -16102$$

$$b_4 = 88775$$

Farrar (1978) details the development of this site-index function. Site index is estimated by equation 9 in all stand growth and yield predictors below.

Data Analysis

In the analysis, 139 plots were used. Of the original 175 plots, five were lost to trespass-cutting before remeasurement; 31 plots were

omitted because of too much mortality in the dominant and codominant crown classes and suspected adverse effects of disease and site alteration caused by a raised water table. Otherwise, any mortality in the suppressed and intermediate crown classes was tolerated.

So, the plots used in this analysis represent the net volume growth and yield one might expect in the absence of catastrophic mortality or other adverse influences.

Table 1 shows the distribution of these 139 plots by initial age, site index, and residual basal area. Initially, individual plots ranged in age from 15-80 years, in site index from 46-90 ft and in residual basal area from 8-169 ft² per acre.

I fitted a modified form of Sullivan and Clutter's (1972) simultaneous growth and yield prediction models by least squares, using 139 observations on initial stand conditions and 139 observations on final stand conditions. The resulting equations 10-12 predict current and projected stand total cubic-foot volume, i.b., (TVI) and projected stand total basal area (B) in relation to stand age (A), site index (S), and basal area.

I predicted stand total volume, o.b., in cubic feet (TVO) by using a fitted function that estimates the ratio of TVO to TVI in terms of A, S and B using 278 observations on stand conditions. Predicting TVO by the models used to predict TVI resulted in equations that intersected; so, for certain otherwise reasonable combinations of A, S, and B, the TVI exceeded the TVO. To avoid this logical impossibility, I predicted the ratio TVO/TVI by a function of the form $1 + e^{[f(A, S, B)]}$ that, when multiplied times estimates of TVI, gives estimates of TVO that are always greater than TVI.

These equations projecting total basal area and current and future total volume also form the basis for the predictors of merchantable volume below.

I predicted merchantable volumes, i.b. and o.b., by using fitted functions that estimate the ratio of a larger to a smaller value for given stand conditions. For example, predicting the ratio of BF/V10I as a function of the form $9 - e^{[f(A, S, B)]}$ enables estimates of BF. (Nine is the approximate maximum possible board feet per cubic foot, allowing for kerf and shrinkage.)

BF/V10I can then be multiplied times estimates of V10I to give estimates of BF.

Necessary ratio estimators were formulated, fitted, and evaluated. These operations insured that predictors for stand i.b. and o.b. merchantable volumes, in cubic feet, are logically related. For any given stand conditions of A, S, and B, the logical restraints built into the system are:

TVO > TVI, TVO > V4O > V10O, and TVI > V4I > V10I. Two further logical restraints which should occur, V4O > V4I and V10O > V10I, were not insured but do result from system development.

RESULTS

The equations for estimating growth and yield of thinned natural longleaf are:

Basal Area

$$(10) \quad \hat{B}_2 = e^{[(A_1/A_2)\ell n(B_1) + 6.0594(1 - A_1/A_2)]}$$

$$n = 139$$

where:

$\hat{B}_2$ = projected basal area at the end of the period in square feet per acre;
d.b.h. $\geq$ 0.6 inch

e = natural logarithm base

A_1 = stand age at the start of the period in years

A_2 = stand age at the end of the period in years

ℓn = natural logarithm

B_1 = basal area at the start of the period in square feet per acre;
d.b.h. $\geq$ 0.6 inch

n = number of observations involved in fitting the equation.

Total Cubic-Foot Volumes

$$(11) \quad \hat{TVI}_2 = e^{[2.6776 + 0.015287(S) - 21.909/A_2 + (A_1/A_2)\ln(B_1) + 6.0594(1 - A_1/A_2)]}$$

n = 278

where:

$\hat{TVI}_2$ = projected stand total volume, i.b., in cubic feet per acre at the end of the period; d.b.h. $\geq$ 0.6 inch, 0.2-ft stump

S = stand site index in feet; index age = 50 years

When $A_1 = A_2$ and $B_1 = B_2$ or the growth period length is 0, then equation 11 reduces to:

$$(12) \quad \hat{TVI} = e^{[2.6776 + 0.015287(S) - 21.909/A + \ln(B)]}$$

where:

A, S, B are current stand conditions for age, site index and basal area, and $\hat{TVI}$ is the predicted current stand volume in cubic feet.

The ratio estimator for predicting stand total volume, o.b., in cubic feet is:

$$(13) \quad (TVO/\hat{TVI}) = 1 + e^{[-0.17875 + 43.629/s + 1108.6/((S)(B)) - 0.42802\ln(A) - 360.87\ln(A)/((S)(B))]}$$

n = 278

Then, since $(TVI)(TVO/\hat{TVI}) = TVO$:

$$(14) \quad \hat{TVO} = (\hat{TVI})[1 + e^{[-0.17875 + 43.629/s + 1108.6/((S)(B)) - 0.42802(\ln(A)) - 360.87(\ln(A))/((S)(B))]}]$$

where:

$\hat{TVO}$ = predicted stand total volume, o.b., in cubic feet per acre; d.b.h. $\geq$ 0.6 inch; 0.2-ft stump.

Equation 14 can estimate TVO_1 or TVO_2 by proper use of either initial or final conditions for $\hat{TVI}$, A, S, and B as arguments. Table 2 records "goodness of fit" statistics for equations 10, 11, 12, and 14.

The other stand merchantable volume and average d.b.h. estimators are:

Merchantable Cubic-Foot Volumes

$$(15) \quad \hat{V4I} = \hat{TVI} / [1 + e^{\{2.623 + 316.77/S + 10201/((S)(B)) - 2.8248(\ln(A)) - 3326.7(\ln(A))/((S)(B))\}}]$$

where:

$\hat{V4I}$ = predicted stand merchantable volume in cubic feet per acre, i.b.; d.b.h. $\geq$ 3.6 inches; top d.o.b. = 3 inches; 0.2-ft stump.

Equation 15 is based on 278 observations and can estimate $\hat{V4I}_1$ or $\hat{V4I}_2$ with initial or final arguments for $\hat{TVI}$, A, S, and B.

Table 2.-"Goodness of fit" statistics for stand total basal area and volume predictors¹

Predictor	m	r	$\overline{OBS}$	$\overline{d}$	$\overline{\%d}$
B2	139	0.993	90 ft ²	2.0 ft ²	2.2
TV11	139	0.997	1,886 ft³	-0.6 ft ³	1.1
TVI2	139	0.993	2,373 ft ³	8.5 ft ³	-0.5
TV01	139	0.998	2,446 ft ³	-3.3 ft ³	0.8
*TVO2	139	0.993	3,055 ft ³	10.7 ft ³	-0.3

*Ratio predictors for volume at the end of the period use projected basal area ($\hat{B}_2$) as the argument for basal area (B)

¹m = number of observations used in evaluating the predictor

r = correlation coefficient for predicted (P) and observed (O) values

$\overline{OBS}$ = average observed value = $(\sum(O))/m$

$\overline{d}$ = average difference = $(\sum(P-O))/m$

$\overline{\%d}$ = average percent difference = $[(\sum((P-O)/O))/m](100)$

$$(16) \quad \hat{V4O} = \hat{TV4O} / [1 + e^{\{2.7285 + 323.23/S + 10429/((S)(B)) - 2.8742(\ln(A)) - 3415.6(\ln(A))/(S)(B)\}}]$$

where:

$\hat{V4O}$ = predicted stand merchantable volume in cubic feet per acre, o.b.; d.b.h. ≥ 3.6 inches; top d.o.b. = 3 inches; 0.2-ft stump.

Equation 16 is based on 278 observations and can be used to estimate $V4O_1$ or $V4O_2$ as above.

Sawtimber Volumes

$$(17) \quad \hat{V10I} = \hat{V4I} / [1 + e^{\{2.9939 - 2.7845(\ln(A)) + 1281.5/S - 217.67(\ln(A))/S + 0.016017(B)\}}]$$

where:

$\hat{V10I}$ = predicted stand merchantable volume in cubic feet per acre, i.b.; d.b.h. ≥ 9.6 inches; top d.o.b. = 7 inches; 0.2-ft stump.

Equation 17 is based on 196 observations from plots that had initial or final $V10I > 0$. This equation can estimate $V10I_1$ and $V10I_2$, as above.

$$(18) \quad \hat{V10O} = \hat{V4O} / [1 + e^{\{2.6804 - 2.7335(\ln(A)) + 1320.6/S - 226.17(\ln(A))/S + 0.016420(B)\}}]$$

where:

$\hat{V10O}$ = predicted stand merchantable volume in cubic feet per acre, o.b.; d.b.h. ≥ 9.6 inches; top d.o.b. = 7 inches; 0.2-ft stump.

Equation 18 is based on 196 observations from plots that had initial or final $V10O > 0$. This equation can be used to estimate $V10O_1$ or $V10O_2$, as above.

Cubic-foot volume in sawtimber is estimated as $V10I$ or $V10O$. The remaining cubic-foot

volume in pulpwood (volume in trees with d.b.h. between 3.6 and 9.5 inches, inclusive, to a 3-inch d.o.b. top plus volume in tops of sawtimber trees between 3- and 1-inch d.o.b. tops) can be estimated as $(V4I - 410I)$ or $(V4O - V10O)$.

$$(19) \quad \hat{BF} = (\hat{V10I}) [9 - e^{\{-0.029925 - 0.00057658(B) + 61.114/S + 13.072/A\}}]$$

where:

$\hat{BF}$ = predicted stand board-foot volume per acre, Int. 1/4-inch rule; d.b.h. ≥ 9.6 inches; top d.i.b. = 5 inches; 1-ft stump.

Equation 19 is based on 196 observations from plots that had initial or final $BF > 0$. This equation can be used to estimate BF and BF_2 , as above. Table 3 gives fit statistics for all these stand merchantable volume predictors.

Mean d.b.h.

$$(20) \quad \hat{\bar{D}} = -1.6525 + 0.0015219(A^2) + 0.0051269(A)(S) - 0.00095789(A)(B) - 0.000046415(A^2)(S) + 0.0000077625(A^2)(B)$$

where:

$\hat{\bar{D}}$ = predicted quadratic-mean stand d.b.h.; all trees with d.b.h. ≥ 0.6 inch. (This is the d.b.h. of the tree of average basal area.)

Equation 20 is based on 278 observations and can estimate initial ($\bar{D}_1$) or final quadratic-mean stand d.b.h. ($\bar{D}_2$). Equation 20 has an $R^2 = 0.942$ and $s_{y.x} = \pm 0.895$.

Cord Volumes

$$(21) \quad C5 = (\hat{TV1I})(0.0126 - 0.0056/\hat{\bar{D}} - 0.01989/(\hat{\bar{D}})^2)$$

where:

$C5$ = estimated rough cords per acre; d.b.h. ≥ 5 inches; top d.o.b. = 4 inches; 0.7-ft stump.

Table 3.--“Goodness of fit” statistics for stand merchantable volume predictors’

Predictor	m	r	OBS	$\bar{d}$	$\overline{\%d}$
V4I1	139	.994	1792 ft ³	2.0 ft ³	17.8
*V4I2	139	.990	2280 ft ³	22.1 ft ³	~ 0.3
V4O1	139	.994	2308 ft ³	21.6 ft ³	6.2
*V4O2	139	.990	2923 ft ³	33.1 ft ³	0.003
V10I1	93	.961	1323 ft ³	10.3 ft ³	20.6
*V10I2	103	.966	1563 ft ³	2.8 ft ³	14.5
V10O1	93	.961	1648 ft ³	19.3 ft ³	20.9
*V10O2	103	.965	1941 ft ³	9.4 ft ³	14.8
BF1	93	.967	8269 fbm	95.3 fbm	20.8
*BF2	103	.970	9860 fbm	46.8 fbm	13.3

*All predictors for volume at the end of the period use projected basal area ($\hat{B}_2$) as the argument for basal area (B).

m=number of observations used in evaluating the predictor

r=correlation coefficient for predicted (P) and observed (O) values

OBS=average observed value= $[\sum(O)]/m$

$\bar{d}$ =average difference= $[\sum(P-O)]/m$

$\overline{\%d}$ =average percent difference= $[(\sum((P-O)/O))/m](100)$

Schumacher and Coile (1960) used stand total volume, i.b., in cubic feet, and quadratic-mean stand d.b.h. as arguments to derive equation 21. The argument specifications used here differ slightly from those of Schumacher and Coile. But the difference is not great enough to prohibit useful estimates. Since cord volume was not actually observed, no fit statistics for equation 21 are possible in this study.

To get a rough estimate of the cord volume in pulpwood (trees with 5 inches $\leq$ d.b.h. < 10

inches and tops of trees with d.b.h $\geq$ 10 inches), let:

$(V4O - V10O) = VP$ = cubic-foot volume in pulpwood

CS=cords in sawtimber

$(C5 - CS) = CP$ = cords in pulpwood.

Assume that:

$$(V4O - V10O)/V4O \approx (C5 - CS)/C5$$

Then,

$$(22) \quad CP \approx [(C5)(VP)]/V4O$$

Dry Weight

To predict dry weight of wood per acre, use estimates of V4I or V10I and of wood specific gravity from Tables 29-36 in Wahlgren and Schumann (1975) as follows:

$$(23) \quad W4I = (V4I)(62.4)(SGA)$$

$$(24) \quad W10I = (V10I)(62.4)(SGS)$$

where:

$W4I$ =approximate wood dry weight, in pounds per acre, for the stand with d.b.h. $\geq$ 3.6 inches; top d.o.b.=3 inches; 0.2-ft stump

$W10I$ =approximate wood dry weight; in pounds per acre, for the stand with d.b.h. $\geq$ 9.6 inches; top d.o.b.=7 inches; 0.2-ft stump

SGA=average tree specific gravity, all d.b.h. classes, from Wahlgren and Schumann (1975)

SGS=average tree specific gravity, sawtimber classes (d.b.h. $\geq$ 9.0 inches), from Wahlgren and Schumann (1975)

The merchantability specifications used here differ somewhat from Wahlgren and Schumann's. But the weight estimates should be satisfactory for most purposes.

DISCUSSION

Equations 10 - 24 provide tools for evaluating a wide variety of thinning schedules and rotation lengths. Initial conditions should be: age = 20-80 years, site index = 46-95 ft, and basal area = 16-165 ft². The minimum initial age can be 15 years, but 20 is preferable since site index estimates are more precise at later ages. Also, ingrowth above merchantability thresholds has a sudden variable effect at young ages. It is possible to start predictions as early as age 9 or 10 by using information on stand density in terms of surviving trees per acre at these early ages to predict the basal area at age 15-20 (Farrar 1979). But stand volumes probably should not be estimated before age 20.

Since this system of equations is based on stands thinned from below and on a 5-year growth period, it is prudent to restrict projections to short periods-preferably 5-10 years but no more than 30 years. Single long-term projections should be avoided because they may not be as reliable as short-term projections. Forecasting production to age 80 for a thinning regime starting at age 20 and employing 5-to-10-year cutting cycles is preferable to forecasting production of an unthinned stand from age 20 to age 80.

The appendix contains tables showing current and projected basal areas and volumes for an extensive array of initial and final ages, site indices, and basal areas at the initial age. Boxed sections of the tables contain volume values for possible but improbable combinations of stand age, site index, and basal area.

Appendix tables 1-14 give TVI and TVO volume estimates; 15-28 give V4I and V4O volume estimates; 29-42 give V10I and V10O volume estimates; and 43-56 give estimates for C5 and BF. Use of the equation system is simple, because the tables are fairly comprehensive. The equations can be used to make predictions for many combinations of initial and final stand conditions not shown in the appendix.

Tables 4 and 5 give six examples illustrating use of the prediction system and associated

appendix tables. Each example assumes stand conditions are: Initial age = 30 years, site index = 70; initial basal area, before cut, = 100 ft² at age 30; and rotation length = 60 years with shelterwood regeneration via a preparatory cut at age 50, seed cut at age 55, and removal cut at age 60.

Examples 1, 4, 5, and 6 assume that the first cut occurs at age 30 when 70 basal area is left, that cuts are made on a 5-year cycle, and that 70 basal area is left after each subsequent cut between ages 30 and 50. In example 2 the leave basal area is increased at each cut. The third example assumes that no cutting occurs until age 50 when shelterwood cutting begins. All values for these examples are found in the appendix tables.

For example 1 the values are obtained as follows: Enter appendix table 9 at initial basal area = 100, initial age = 30 years, final age = 30 years, and site index = 70; read 2044 ft³, i.b., and 2775 ft³, o.b. These are before-cut standing volumes at age 30.

We want to thin from below and leave 70 basal area at age 30. Enter appendix table 6 at initial basal area = 70, initial age = 30 years, final age = 30 years, and site index = 70; read 1431 ft³, i.b., and 1939 ft³, o.b. These are after-cut standing volumes at age 30. Cut values in these examples are obtained by subtraction.

To project the 70 basal area after-cut stand from age 30 to age 35, enter appendix table 6 at initial basal area = 70, initial age = 30, final age = 35, site index = 70. Read ft³, i.b., = 2057; ft³, o.b., = 2738; and basal area = 91. These are the projected values, before cut, at age 35.

We again thin to leave 70 basal area at age 35. To get after-cut stand values enter appendix table 6 at initial basal area = 70, initial age = 35, final age = 35, site index = 70; read 1588 ft³, i.b., and 2110 ft³, o.b. These are after-cut stand volumes at age 35.

We now project the 70 basal area after-cut stand from age 35 to 40 by again entering appendix table 6 at initial basal area = 70, initial age = 35, final age = 40, site index = 70. Read ft³, i.b., = 2153; ft³, o.b., = 2821; and basal area = 88. These are the projected values, before cut, at age 40.

This procedure is repeated until at age 60 we have projected values, before cut, of ft³, i.b., = 1102; ft³, o.b., = 1361; and basal area = 37 (appendix table 2). At this time we harvest the stand. Estimate total net yield by summing

Table 4.—*Illustrations of the use of the stand volume prediction system for thinned natural longleaf, site index 70'*

Estimated Stand Values Per Acre									
Before cut				After cut			cut		
Age	B	TVI	TVO	B	TVI	TVO	B	TVI	TVO
(yrs)	(ft ²)	(ft ³)		(ft ²)	(ft ³)		(ft ²)	(ft ³)	
Example 1: 5-year cuts, constant basal area, shelterwood									
30	100	2044	2775	70	1431	1939	30	613	836
35	91	2057	2738	70	1588	2110	21	469	628
40	88	2153	2821	70	1717	2245	18	436	576
45	86	2232	2885	70	1825	2354	16	407	531
50	84	2296	2934	60	1642	2089	24	654	845
55	72	2043	2579	30	855	1059	42	1188	1520
60	37	1102	1361	0	0	0	37	1102	1361
								4869	6297
Example 2: 5-year cuts, increasing basal area, shelterwood									
30	100	2044	2775	70	1431	1939	30	613	836
35	91	2057	2738	80	1815	2414	11	242	324
40	99	2420	3174	90	2208	2893	9	212	281
45	107	2790	3614	100	2607	3375	7	183	239
50	116	3166	4057	60	1642	2089	56	1524	1968
55	72	2043	2579	30	855	1059	42	1188	1520
60	37	1102	1361	0	0	0	37	1102	1361
								5064	6529
Example 3: No cuts to age 50, shelterwood									
30	100	2044	2775	100	2044	2775	0	0	0
50	179	4897	6294	60	1642	2089	119	3255	4205
55	72	2043	2579	30	855	1059	42	1188	1520
60	37	1102	1361	0	0	0	37	1102	1361
								5545	7086

*For before cut and after cut estimates: B values are known or come from equation 10

TVI values come from equation 11 or equation 12

TVO values come from equation 14

Table 5.—*Example of estimated merchantable volume production for a simulated thinning regime in a natural longleaf stand, site index =70¹*

Estimated Stand Values Per Acre									
Before cut				After cut			cut		
Example 4: Estimates for V4I and V4O									
Age	B	V4I	V4O	B	V4I	V4O	B	V4I	V4O
(yrs)	(ft²)	(ft³)		(ft²)	(ft³)		(ft²)	(ft³)	
30	100	1905	2583	70	1339	1813	30	566	770
35	91	1972	2625	70	1527	2029	21	445	596
40	88	2097	2747	70	1676	2191	18	421	556
45	86	2192	2834	70	1795	2316	16	397	518
50	84	2268	2898	60	1626	2068	24	642	830
55	72	2027	2559	30	852	1055	42	1175	1504
60	37	1099	1357	0	0	0	37	1099	1357
								4745	6131
Example 5: Estimates for V10I and V10O									
Age	B	V10I	V10O	B	V10I	V10O	B	V10I	V10O
(yrs)	(ft²)	(ft³)		(ft²)	(ft³)		(ft²)	(ft³)	
30	100	104	134	70	114	150	30	.	.
35	91	280	363	70	286	373	21	.	.
40	88	579	747	70	564	730	18	15	17
45	86	968	1243	70	904	1163	16	64	80
50	84	1365	1742	60	1120	1428	24	245	314
55	72	1546	1956	30	735	913	42	811	1043
60	37	992	1229	0	0	0	37	992	1229
								2127	2683
Example 6: Estimates for C5 and BF									
Age	B	c 5	BF	B	c 5	BF	B	c 5	BF
(yrs)	(ft²)	(cds.)	(fbm)	(ft²)	(cds.)	(fbm)	(ft²)	(cds.)	(fbm)
30	100	22.2	580	70	15.9	630	30	6.3	
35	91	23.2	1620	70	18.1	1650	21	5.1	
40	88	24.8	3440	70	19.9	3330	18	4.9	
45	86	26.1	5850	70	21.4	5440	16	4.7	
50	84	27.1	8360	60	19.5	6820	24	7.6	
55	72	24.3	9540	30	10.2	4480	42	14.1	
60	37	13.3	6120	0	0	0	37	13.3	
								56.0	13240

¹For before cut and after cut estimates: B values are known or come from equation 10

V4I values come from equation 15

V4O values come from equation 16

V10I values come from equation 17

V10O values come from equation 18

C5 values come from equation 21

BF values come from equation 19

values in the cut columns to get 4869 ft³, i.b., and 6297 ft³, o.b. The other examples were derived in similar fashion.

These examples suggest that thinning reduces net total yield over a rotation. This effect seems reasonable for total cubic-foot volumes in the absence of catastrophic mortality.

A minor interpretation problem sometimes arises when sawtimber volume (V10I, V10O, and BF) growth and yield is simulated at relatively young ages under thinning regimes. The predicted volume for a relatively high projected basal area before cut can be less than the stand volume predicted for a lower basal area after cut; the difference depends on the stand age, site index, and residual basal area chosen (table 5). This anomaly apparently occurs because sawtimber volume predictions reflect the effect of sudden ingrowth in young stands. The ingrowth effect seems related to basal area, so sawtimber volume peaks at medium densities in young stands and peaks at increasingly higher densities as age and site index increase. In a thinning simulation exercise, the effect can be that at a given age less sawtimber volume is predicted for an initial basal area than is predicted for a lower residual basal area. But the difference is generally small and the problem disappears as stand age increases. The problem can be ignored by assuming that if the stand had a certain sawtimber volume predicted at a given age before cutting, it should have no more than this volume in the residual stand. This assumption was made in table 5.

The C5 estimate is cord volume in lieu of, not in addition to, BF volume. To estimate cord volume in pulpwood and sawtimber stand components, use equation 22. For example, from the before-cut volume values at age 60 for the stand in table 5: $C5 = 13.3$ cords, $VP = (1357 - 1229) = 128$ ft³, $V4O = 1357$ ft³, and $CP \approx [(13.3)(128)]/(1357) \approx 1.3$ cords. The approximate cord volume in the sawtimber component is $(13.3 - 1.3)$ or 12.0 cords.

We can estimate a stand's dry-weight production of wood for trees with d.b.h. ≥ 4 inches and for trees with d.b.h. ≥ 10 inches. For example, assume the example stand in table 5 is located in lower Southwest Alabama and we want dry weight estimates for the before-cut stand at age 60. We can use equations 23 and 24 with volume estimates from table 5 and tree specific gravity

estimates from table 29 in Wahlengren and Schumann (1975). From equation 23, $W4I = (1099)(62.4)(0.54) = 37,032$ pounds per acre and from equation 24, $W10I = (992)(62.4)(0.55) = 34,045$ pounds per acre.

The simulation possibilities with the system of equations are considerable and, particularly if one has access to a large computer, relatively easy. So, a wide variety of stand management options can be simulated. But, keep in mind that:

- (a) The system is based on the first 5 years of growth from the study and is a first approximation to the growth and yield of thinned natural longleaf. Total volume predictions are the most reliable, while sawtimber volume predictions are the least reliable. Responses predicted for sawtimber may not yet completely reflect prescribed basal area conditions because many stands have grown under their prescribed conditions for only a short period and not for all or most of their life. Inclusion of additional periods as data become available may improve the predictions.
- (b) Long-term projections for unthinned stands may be inaccurate. The system is based essentially on thinned stands, a 5-year growth period, and excludes long-term mortality. The net growth recorded during the relatively short growth period may not reflect the mortality that might occur during longer periods. The system probably will not reliably project estimates for unthinned stands for more than 20 to 30 years at best unless the user develops an adjustment for long-term mortality. The basal area and volume projections from present equations tend to become unrealistically large if performed for too long an unthinned period.
- (c) The equations probably depict about the best performance we can expect from thinned natural longleaf stands. The total basal area and volume predictions and projections are for uniform stand conditions and essentially incorporate only the effects of mortality attributed to suppression. Also, thinning was from below with a minor amount of improvement

cutting in upper crown classes, and adverse environmental effects were minimized.

Although it has limitations, the system of equations should be useful to those planning the management and harvest of natural **longleaf** stands. It permits estimates of current and future stand volumes and future basal areas for a considerable array of stand conditions and allows simulation of a wide variety of thinning regimes and rotation lengths of potential interest to **longleaf** timber-land owners.

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APPENDIX

Current and Projected Total Cubic Foot Volume and Basal Area Per Acre

Current and Projected Merchantable Cubic Foot Volume (V4I,V4O) and
Total Basal Area Per Acre

Current and Projected Merchantable Cubic Foot Volume (V1OI,V1OO) and
Total Basal Area Per Acre

Current and Projected Cord (C5) and Board Foot Int. 1/4 (BF) Volume and
Total Basal Area Per Acre

TABLE I.--CURRENT AND PROJECTED TOTAL CUBIC FOOT VOLUME AND BASAL AREA PER ACRE
FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA SQ. FT.
		50		60		70		80		90		
		I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	
20 SO. FT. INITIAL BASAL AREA												
20	20	209	326	243	363	284	409	331	465	365	533	20
	25	480	716	559	796	652	903	760	1031	885	1183	37
	30	836	1210	974	1353	1135	1535	1322	1756	1541	2017	56
	35	1242	1760	1447	1973	1687	2242	1965	2566	2290	2951	74
	40	1672	2330	1948	2616	2270	2975	2645	3409	3062	3922	93
	45	2107	2694	2455	3255	2860	3705	3332	4247	3683	4889	110
	50	2534	3440	2953	3873	3441	4412	4009	5061	4671	5829	126
25	25	260	385	303	430	353	487	412	556	480	639	20
	30	502	720	565	807	681	917	794	1049	925	1206	33
	35	802	1128	934	1267	1089	1441	1269	1650	1478	1899	48
	40	1140	1578	1328	1775	1548	2021	1803	2317	2101	2667	63
	45	1499	2048	1746	2306	2035	2628	2371	3014	2763	3471	78
	50	1866	2521	2174	2841	2533	3239	2951	3717	3439	4282	93
	55	2231	2966	2600	3368	3030	3642	3330	4411	4113	5083	106
30	30	301	426	351	479	409	545	476	625	555	719	20
	35	518	720	603	811	703	924	819	1059	954	1220	31
	40	777	1067	906	1202	1055	1371	1230	1573	1433	1812	43
	45	1066	1447	1243	1632	1448	1861	1687	2136	1966	2462	56
	50	1373	1845	1600	2082	1864	2376	2172	2728	2531	3144	68
	55	1689	2248	1968	2539	2293	2699	2672	3330	3113	3839	81
	60	2007	2650	2338	2995	2725	3421	3175	3930	3699	4532	93
35	35	334	457	389	517	454	590	529	673	616	782	20
	40	530	718	618	812	720	927	838	1065	977	1228	29
	45	759	1019	884	1152	1030	1316	1200	1512	1398	1744	40
	50	1011	1347	1178	1523	1372	1740	1599	2000	1863	2307	50
	55	1278	1691	1490	1913	1736	2186	2022	2512	2356	2898	61
	60	1555	2041	1812	2310	2111	2641	2459	3036	2866	3503	72
	65	1835	2393	2138	2709	2491	3098	2902	3562	3382	4111	82
40	40	361	481	421	546	491	625	572	720	666	831	20
	45	540	715	629	811	733	929	854	1059	995	1234	28
	50	744	981	867	1112	1010	1273	1177	1464	1372	1690	37
	55	968	1269	1127	1438	1314	1646	1531	1893	1784	2185	46
	60	1204	1570	1403	1780	1635	2037	1905	2344	2220	2705	56
	65	1449	1879	1689	2131	1968	2439	2293	2806	2672	3239	65
	70	1699	2191	1979	2465	2306	2644	2687	3273	3131	3779	74
45	45	384	500	446	569	521	653	608	753	708	871	20
	50	548	712	636	810	744	929	867	1070	1010	1237	27
	55	732	950	853	1080	994	1237	1159	1425	1350	1646	35
	60	933	1206	1087	1370	1267	1570	1476	1808	1720	2088	43
	65	1145	1474	1334	1674	1555	1918	1811	2209	2111	2551	51
	70	1365	1749	1590	1987	1853	2277	2159	2622	2516	3028	60
	75	1589	2026	1852	2304	2158	2640	2514	3040	2928	3512	68
50	50	403	515	470	588	547	676	638	781	743	903	20
	55	554	709	646	809	753	929	877	1071	1022	1238	26
	60	723	924	842	1052	981	1208	1143	1392	1332	1610	33
	65	905	1154	1054	1314	1228	1507	1431	1737	1668	2008	41
	70	1097	1395	1278	1587	1489	1821	1735	2098	2021	2425	48
	75	1296	1643	1510	1869	1759	2144	2050	2471	2388	2855	56
	80	1499	1895	1747	2156	2035	2473	2372	2649	2763	3292	63
55	55	420	527	489	604	565	695	664	803	773	930	20
	60	560	706	652	807	760	928	886	1071	1032	1239	26
	65	715	902	833	1029	970	1183	1131	1365	1317	1578	32
	70	881	1111	1027	1267	1196	1455	1394	1678	1624	1941	39
	75	1056	1329	1231	1515	1434	1740	1671	2006	1947	2320	45
	80	1238	1555	1442	1771	1681	2034	1958	2345	2262	2711	52
60	60	434	538	505	617	589	711	686	822	800	953	20
	65	565	703	658	805	767	927	893	1071	1041	1240	25
	70	708	883	825	1009	961	1161	1120	1341	1305	1552	31
	75	861	1074	1003	1227	1169	1411	1362	1628	1587	1884	37
	80	1022	1274	1191	1454	1388	1671	1617	1929	1884	2231	43
65	65	446	547	520	628	606	725	706	839	822	972	20
	70	569	706	663	803	772	925	900	1070	1048	1240	25
	75	702	866	818	992	953	1142	1111	1320	1294	1529	30
	80	844	1042	984	1192	1146	1372	1335	1585	1556	1835	36
70	70	457	554	532	637	620	736	723	853	842	989	20
	75	572	697	667	801	777	924	905	1069	1055	1239	25
	80	697	852	812	977	946	1126	1103	1302	1285	1508	29
75	75	467	561	544	646	634	746	738	865	860	1003	20
	80	576	695	671	799	781	923	910	1068	1061	1239	24
80	80	475	566	554	653	645	755	752	875	876	1016	20

TABLE P.---CURRENT AND PROJECTED TOTAL CUBIC FOOT VOLUME AND BASAL AREA PER ACRE
FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA
		50		60		70		80		90		
		I.E.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	
YEARS		I										SQ. FT.
30 SQ. FT. INITIAL BASAL AREA												
20	20	313	491	365	543	426	612	496	697	578	798	30
	25	664	992	774	1106	902	1251	1051	1428	1224	1638	51
	30	1095	1590	1276	1778	1487	2016	1733	2304	2019	2647	73
	35	1566	2226	1625	2493	2126	2631	2478	3240	2887	3725	94
	40	2048	2860	2386	3210	2780	3650	3239	4180	3774	4809	113
	45	2523	3473	2939	3904	3425	4442	3999	5091	4650	5860	131
50	2981	4054	3473	4450	4	5195	4715	5958	5494	6860	148	
25	25	390	580	455	647	530	733	617	837	719	961	30
	30	703	1015	820	1137	955	1290	1113	1475	1296	1696	47
	35	1071	1515	1246	1699	1454	1931	1695	2211	1975	2543	64
	40	1469	2043	1711	2295	1994	2611	2324	2992	2707	3443	81
	45	1878	2575	2188	2897	2549	3299	2970	3782	3461	4355	96
	50	2285	3097	2662	3488	3102	3975	3614	4560	4211	5252	113
55	2683	3600	3126	4058	3643	4627	4244	5310	4945	6119	128	
30	30	452	646	526	725	613	824	714	943	832	1085	30
	35	733	1029	854	1156	995	1315	1159	1507	1351	1734	44
	40	1054	1456	1228	1639	1430	1866	1667	2139	1942	2463	58
	45	1397	1907	1628	2148	1897	2448	2210	2808	2576	3234	73
	50	1752	2364	2041	2665	2378	3039	2771	3488	3228	4019	87
	55	2107	2817	2455	3178	2861	3626	3333	4163	3884	4793	100
60	2458	3257	2864	3676	3331	4198	3888	4622	4530	5559	113	
35	35	501	696	584	764	681	894	793	1025	924	1181	30
	40	756	1036	881	1168	1026	1332	1195	1528	1393	1761	42
	45	1040	1410	1212	1591	1412	1815	1645	2083	1917	2400	54
	50	1343	1802	1564	2035	1823	2322	2124	2667	2475	3074	67
	55	1655	2202	1928	2487	2247	2640	2618	3262	3050	3761	79
	60	1970	2600	2295	2938	2674	3356	3116	3656	3630	4447	91
65	2282	2990	2659	3362	3099	3854	3610	4442	4207	5123	102	
40	40	542	735	632	831	736	949	858	1090	999	1257	30
	45	714	1040	902	1176	1051	1343	1224	1543	1427	1780	40
	50	1029	1372	1199	1552	1397	1773	1628	2037	1897	2349	51
	55	1300	1719	1514	1945	1764	2222	2056	2554	2395	2946	62
	60	1578	2073	1839	2346	2143	2682	2497	3083	2909	3556	73
	65	1860	2427	2168	2746	2526	3142	2943	3613	3429	4168	83
70	2142	2777	2496	3145	2908	3598	3388	4138	3948	4775	94	
45	45	576	766	671	868	782	993	911	1142	1062	1318	30
	50	769	1042	919	1181	1071	1352	1248	1554	1454	1794	39
	55	1021	1340	1189	1519	1386	1738	1614	1999	1881	2307	49
	60	1265	1651	1474	1871	1717	2141	2001	2463	2331	2642	58
	65	1516	1968	1767	2231	2059	2553	2399	2937	2795	3390	68
	70	1771	2287	2064	2593	2405	2968	2802	3415	3265	3942	78
75	2027	2603	2362	2953	2752	3380	3206	3890	3736	4491	87	
50	50	605	790	705	898	821	1029	957	1185	1115	1368	30
	55	801	1043	934	1185	1088	1357	1268	1563	1477	1804	38
	60	1013	1314	1181	1491	1376	1708	1603	1966	1868	2271	47
	65	1236	1595	1440	1810	1678	2073	1955	2387	2278	2756	55
	70	1465	1882	1707	2136	1989	2447	2318	2817	2700	3253	64
	75	1698	2171	1978	2465	2305	2824	2686	3251	3129	3754	73
80	1932	2459	2251	2792	2622	3199	3056	3684	3560	4255	81	
55	55	629	810	733	923	855	1059	996	1220	1160	1410	30
	60	812	1043	946	1187	1102	1361	1284	1569	1497	1812	37
	65	1007	1290	1174	1467	1368	1663	1593	1938	1857	2240	45
	70	1212	1547	1412	1759	1645	2016	1917	2323	2233	2684	53
	75	1422	1809	1657	2057	1931	2356	2250	2716	2621	3138	61
	80	1636	2073	1906	2357	2221	2702	2588	3113	3015	3597	69
60	60	651	827	758	943	883	1084	1029	1250	1199	1446	30
	65	821	1043	957	1189	1115	1364	1299	1573	1513	1819	37
	70	1002	1270	1168	1447	1361	1660	1585	1914	1847	2213	44
	75	1191	1506	1388	1715	1617	1968	1884	2268	2195	2621	51
80	1386	1747	1614	1988	1881	2282	2192	2630	2554	3039	58	
65	65	669	841	780	961	909	1105	1059	1275	1233	1476	30
	70	829	1042	966	1189	1125	1366	1311	1576	1528	1823	36
	75	998	1253	1162	1429	1355	1641	1578	1893	1839	2189	43
	80	1173	1471	1367	1676	1593	1925	1856	2220	2163	2568	49
70	70	686	853	799	976	931	1123	1084	1297	1264	1501	30
	75	836	1041	974	1189	1135	1373	1322	1579	1540	1827	36
	80	994	1237	1158	1412	1349	1624	1572	1874	1832	2168	42
75	75	700	864	816	989	950	1139	1107	1316	1290	1524	30
	80	842	1039	981	1189	1143	1368	1331	1581	1551	1830	35
80	80	713	872	831	1000	968	1153	1128	1332	1314	1543	30

TABLE 3.--CURRENT AND PROJECTED TOTAL CUBIC FOOT VOLUME AND BASAL AREA PER ACRE
FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED BASAL AREA	
INITIAL AGE	FINAL AGE	50		60		70		80		90		SQ. FT.	
YEARS		I.E.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.		
40 SQ. FT. INITIAL BASAL AREA													
20	20	418	653	487	723	567	815	661	928	770	1063	40	
	25	636	1251	974	1393	1135	1576	1322	1799	1541	2064	64	
	30	1327	1930	1546	2156	1802	2444	2099	2794	2446	3209	88	
	35	1846	2628	2151	2943	2506	3341	2920	3822	3403	4394	110	
	40	2365	3308	2755	3711	3210	4218	3741	4830	4358	5556	131	
	45	2867	3952	3340	4440	3892	5052	4535	5789	5284	6663	149	
50	3444	4543	3896	5122	4540	5833	5290	6688	6164	7701	166		
25	25	520	776	606	865	709	979	823	1118	959	1283	40	
	30	894	1295	1042	1448	1214	1643	1414	1878	1648	2158	59	
	35	1316	1866	1533	2091	1786	2376	2081	2719	2425	3127	79	
	40	1758	2451	2043	2752	2387	3130	2781	3585	3241	4125	97	
	45	2203	3028	2567	3405	2991	3676	3485	4442	4060	5114	115	
	50	2638	3583	3074	4033	3582	4595	4174	5270	4063	6069	131	
55	3058	4109	3563	4630	4152	5279	4837	6057	5636	6978	146		
30	30	602	867	702	971	818	1103	953	1261	1110	1450	40	
	35	938	1323	1093	1485	1273	1688	1483	1933	1728	2224	56	
	40	1307	1815	1523	2040	1775	2321	2068	2660	2410	3062	72	
	45	1693	2318	1972	2609	2298	2971	2678	3407	3120	3924	88	
	50	2082	2818	2425	3174	2826	3618	3293	4151	3837	4782	103	
	55	2465	3303	2872	3725	3341	4248	3899	4676	4544	5619	117	
60	2838	3769	3307	4254	3854	4854	4490	5574	5231	6425	131		
35	35	668	936	779	1052	907	1198	1057	1373	1232	1580	40	
	40	972	1341	1133	1510	1320	1720	1538	1972	1792	2271	54	
	45	1301	1773	1516	1997	1766	2277	2058	2612	2398	3009	68	
	50	1642	2214	1913	2497	2230	2848	2598	3268	3027	3766	81	
	55	1987	2654	2315	2995	2698	3417	3144	3924	3633	4523	95	
	60	2329	3084	2714	3483	3163	3977	3685	4568	4294	5266	107	
65	2665	3500	3105	3956	3618	4519	4215	5192	4911	5908	119		
40	40	723	990	842	1116	981	1273	1143	1461	1332	1683	40	
	45	1000	1354	1165	1528	1357	1743	1581	2001	1842	2306	52	
	50	1296	1736	1510	1962	1759	2240	2050	2572	2386	2965	64	
	55	1602	2130	1867	2406	2175	2740	2534	3157	2953	3640	76	
	60	1912	2522	2228	2851	2596	3257	3024	3742	3524	4316	88	
	65	2221	2908	2587	3289	3015	3759	3513	4320	4093	4983	100	
70	2524	3284	2941	3716	3427	4246	3993	4885	4653	5636	110		
45	45	768	1032	895	1167	1043	1333	1215	1531	1416	1766	40	
	50	1022	1362	1191	1541	1388	1760	1617	2023	1884	2333	51	
	55	1291	1708	1505	1932	1753	2208	2043	2538	2380	2927	62	
	60	1569	2061	1828	2332	2130	2666	2482	3065	2892	3536	72	
	65	1850	2414	2156	2733	2512	3125	2927	3593	3411	4146	83	
	70	2131	2763	2483	3130	2893	3580	3371	4117	3928	4751	93	
75	2409	3105	2807	3518	3270	4026	3811	4631	4440	5345	103		
50	50	806	1066	940	1208	1095	1382	1276	1590	1486	1834	40	
	55	1041	1368	1213	1550	1413	1773	1647	2039	1919	2354	50	
	60	1288	1682	1501	1906	1748	2181	2037	2509	2374	2695	59	
	65	1542	2003	1797	2270	2093	2597	2439	2988	2842	3449	69	
	70	1799	2324	2096	2635	2443	3015	2846	3469	3316	4005	79	
	75	2057	2642	2396	2997	2792	3430	3254	3947	3791	4557	88	
80	2312	2956	2694	3353	3139	3639	3651	4419	4262	5102	97		
55	55	839	1095	978	1242	1139	1423	1328	1638	1547	1891	40	
	60	1057	1372	1232	1557	1435	1783	1672	2053	1948	2370	49	
	65	1285	1660	1497	1884	1744	2157	2033	2483	2368	2867	58	
	70	1519	1953	1770	2217	2062	2539	2403	2922	2800	3375	66	
	75	1756	2246	2046	2551	2384	2922	2776	3364	3237	3885	75	
	80	1994	2540	2323	2964	2707	3304	3154	3804	3675	4393	84	
60	60	868	1118	1011	1271	1178	1457	1372	1678	1599	1939	40	
	65	1071	1375	1248	1563	1454	1791	1694	2063	1974	2383	48	
	70	1282	1640	1494	1864	1741	2137	2029	2461	2334	2843	56	
	75	1499	1910	1747	2171	2036	2488	2372	2866	2764	3311	64	
	80	1719	2182	2003	2480	2334	2842	2720	3274	3169	3782	72	
65	65	892	1137	1040	1295	1211	1486	1411	1713	1645	1980	40	
	70	1083	1377	1261	1567	1470	1797	1713	2071	1995	2394	47	
	75	1280	1623	1492	1846	1738	2118	2025	2441	2360	2821	55	
	80	1482	1873	1727	2131	2013	2444	2345	2817	2732	3255	62	
70	70	914	1154	1065	1316	1241	1511	1446	1742	1685	2015	40	
	75	1093	1378	1274	1570	1484	1802	1729	2078	2015	2402	47	
	80	1278	1607	1489	1831	1735	2101	2022	2423	2356	2801	54	
75	75	933	1168	1087	1333	1267	1532	1476	1768	1720	2045	40	
	80	1102	1378	1284	1572	1496	1806	1744	2083	2032	2409	46	
80	80	950	1181	1107	1349	1290	1551	1504	1790	1752	2072	40	

TABLE '---CURRENT AND PROJECTED TOTAL CUBIC FOOT VOLUME AND BASAL AREA PER ACRE
FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA SQ. FT.
		50		60		70		80		90		
		I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	
50 SO. FT. INITIAL BASAL AREA												
20	20	522	816	609	904	709	1019	826	1160	963	1328	50
	25	999	1497	1164	1667	1357	1885	1581	2151	1842	2468	77
	30	1540	2242	1794	2504	2091	2839	2436	3244	2838	3726	102
	35	2097	2988	2443	3346	2847	3798	3317	4344	3865	4994	126
	40	2644	3702	3080	4152	3589	4719	4182	5403	4873	6214	146
	45	3166	4368	3688	4907	4298	5582	5008	6396	5835	7361	165
50	3656	4983	4260	5604	4964	6381	5784	7316	6739	8423	181	
25	25	650	972	758	1083	883	1225	1029	1398	1199	1605	50
	30	1077	1563	1254	1747	1462	1981	1703	2264	1984	2601	72
	35	1543	2192	1798	2456	2095	2789	2441	3192	2844	3670	92
	40	2021	2823	2355	3168	2744	3602	3197	4125	3726	4746	112
	45	2494	3433	2906	3858	3385	4391	3945	5032	4596	5792	130
	50	2950	4011	3437	4514	4005	5141	4666	5846	5437	6789	146
55	3384	4553	3943	5129	4595	5846	5354	6708	6238	7727	161	
30	30	753	1088	877	1217	1022	1381	1191	1580	1387	1815	50
	35	1135	1607	1323	1802	1541	2048	1796	2344	2093	2696	68
	40	1545	2151	1801	2416	2098	2748	2445	3149	2849	3623	86
	45	1964	2696	2289	3032	2667	3453	3107	3958	3621	4557	102
	50	2380	3228	2773	3634	3231	4141	3764	4750	4386	5471	118
	55	2784	3737	3244	4212	3780	4803	4404	5512	5132	6351	133
60	3173	4220	3697	4761	4308	5432	5020	6236	5849	7180	146	
35	35	835	1176	973	1320	1134	1502	1322	1720	1540	1979	50
	40	1182	1637	1377	1841	1604	2096	1869	2402	2178	2765	65
	45	1547	2116	1803	2382	2101	2714	2448	3112	2852	3584	81
	50	1920	2596	2237	2925	2606	3335	3037	3826	3539	4408	95
	55	2290	3066	2669	3458	3110	3944	3623	4528	4222	5218	109
	60	2653	3520	3092	3973	3602	4535	4197	5208	4880	6004	122
65	3005	3955	3501	4467	4080	5101	4753	5861	5539	6758	135	
40	40	903	1245	1053	1401	1227	1597	1429	1831	1665	2109	50
	45	1219	1659	1420	1870	1655	2132	1928	2446	2247	2818	63
	50	1549	2086	1805	2353	2103	2684	2450	3081	2855	3550	77
	55	1884	2514	2195	2838	2558	3238	2981	3719	3473	4287	90
	60	2219	2935	2585	3315	3012	3785	3509	4349	4089	5014	102
	65	2547	3344	2968	3780	3458	4318	4030	4962	4695	5723	114
70	2868	3738	3341	4228	3893	4832	4536	5555	5286	6408	126	
45	45	960	1299	1119	1466	1304	1673	1519	1921	1770	2214	50
	50	1250	1675	1456	1891	1696	2159	1977	2479	2303	2858	62
	55	1550	2060	1806	2327	2104	2658	2452	3053	2857	3521	74
	60	1855	2445	2161	2765	2518	3159	2934	3630	3419	4186	86
	65	2160	2826	2516	3197	2932	3654	3416	4200	3980	4845	97
	70	2460	3198	2866	3620	3340	4139	3891	4759	4534	5490	108
75	2754	3559	3209	4030	3739	4609	4356	5331	5076	6117	118	
50	50	1008	1343	1175	1519	1369	1735	1595	1994	1858	2300	50
	55	1275	1686	1486	1908	1731	2180	2017	2506	2350	2890	61
	60	1551	2036	1807	2305	2106	2635	2454	3029	2859	3494	72
	65	1831	2308	2133	2703	2485	3091	2896	3555	3374	4102	82
	70	2110	2735	2459	3098	2865	3544	3338	4076	3889	4704	92
	75	2387	3076	2781	3486	3240	3988	3775	4588	4399	5295	102
80	2658	3407	3097	3863	3609	4421	4205	5087	4899	5872	112	
55	55	1049	1379	1222	1562	1424	1787	1659	2055	1934	2372	50
	60	1297	1695	1511	1920	1761	2197	2052	2527	2390	2916	60
	65	1552	2016	1808	2285	2107	2614	2455	3007	2861	3471	70
	70	1810	2338	2109	2651	2457	3034	2863	3490	3336	4029	79
	75	2068	2658	2410	3014	2808	3450	3272	3970	3812	4583	89
	80	2324	2972	2708	3371	3156	3860	3677	4442	4284	5129	98
60	60	1084	1409	1264	1599	1472	1831	1715	2107	1999	2432	50
	65	1316	1701	1533	1930	1786	2210	2081	2544	2425	2937	59
	70	1553	1998	1809	2267	2108	2596	2456	2988	2862	3450	68
	75	1792	2295	2088	2605	2433	2984	2835	3435	3304	3966	77
	80	2032	2591	2368	2941	2759	3369	3215	3878	3746	4479	86
65	65	1115	1434	1300	1629	1514	1867	1764	2150	2056	2484	50
	70	1332	1706	1552	1938	1808	2221	2107	2557	2455	2954	58
	75	1553	1981	1810	2251	2109	2579	2457	2971	2863	3431	67
	80	1777	2257	2071	2565	2413	2940	2811	3386	3275	3911	75
70	70	1143	1456	1331	1656	1551	1899	1807	2188	2106	2528	50
	75	1346	1709	1569	1944	1828	2229	2129	2569	2481	2968	58
	80	1554	1966	1811	2236	2110	2564	2458	2955	2864	3414	65
75	75	1167	1474	1359	1678	1584	1926	1845	2220	2150	2567	50
	80	1359	1712	1583	1949	1845	2237	2149	2578	2504	2980	57
80	80	1188	1490	1384	1698	1613	1950	1879	2249	2190	2600	50

TABLE 5.--CURRENT AND PROJECTED TOTAL CUBIC FOOT VOLUME AND BASAL AREA PER ACRE
FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE		FINAL AGE		SITE INDEX										PROJECTED BASAL AREA	
				50		60		70		80		90			
YEARS		I	I.E.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I	SO. FT.	
60 SO. FT. INITIAL BASAL AREA															
20	20		627	970	730	1084	851	1222	992	1391	1156	593		60	
	25		1156	1733	1347	1929	1570	2182	1829	2490	2131	2856		89	
	30		1739	2534	2026	2830	2361	3207	2751	3665	3205	4209		116	
	35		2327	3319	2712	3715	3160	4217	3682	4823	4290	5544		139	
	40		2896	4058	3374	4551	3932	5171	4581	5921	5338	6810		160	
	45		3433	4740	4000	5324	4660	6056	5430	6938	6327	7984		179	
	50		3933	5363	4583	6031	5340	6866	6221	7871	7249	9062		195	
25	25		780	1167	909	1300	1060	1471	1235	1679	1439	1926		60	
	30		1253	1822	1460	2036	1701	2308	1982	2638	2310	3030		83	
	35		1758	2501	2048	2801	2386	3180	2780	3638	3240	4183		105	
	40		2265	3168	2639	3554	3075	4040	3583	4626	4175	5322		125	
	45		2759	3803	3215	4273	3746	4862	4365	5572	5086	6413		144	
	50		3231	4398	3765	4948	4387	5635	5112	6461	5956	7440		160	
	55		3677	4951	4284	5576	4932	6355	5816	7290	6717	8398		175	
30	30		903	1308	1052	1463	1226	1660	1429	1898	1665	2181		60	
	35		1327	1883	1547	2110	1802	2397	2100	2744	2447	3155		79	
	40		1772	2471	2065	2774	2406	3155	2803	3614	3266	4158		98	
	45		2218	3050	2585	3429	3011	3903	3509	4473	4088	5150		116	
	50		2665	3600	3050	3903	3404	4200	3803	4893	4303	5507		132	
	55		3075	4133	3583	4657	4175	5309	4865	6092	5668	7018		147	
	60		3476	4628	4050	5220	4719	5954	5499	6935	6407	7877		160	
35	35		1003	1416	1168	1589	1361	1806	1586	2068	1848	2378		60	
	40		1386	1926	1615	2164	1882	2462	2193	2822	2555	3247		77	
	45		1783	2444	2078	2750	2421	3131	2821	3591	3207	4134		93	
	50		2181	2955	2541	3328	2961	3793	3450	4351	4020	5012		108	
	55		2572	3449	2997	3888	3492	4434	4069	5089	4741	5864		123	
	60		2951	3921	3438	4424	4006	5049	4668	5797	5439	6662		136	
	65		3315	4368	3862	4933	4500	5632	5244	6463	6110	7459		149	
40	40		1084	1500	1263	1687	1472	1921	1715	2202	1998	2535		60	
	45		1433	1957	1670	2204	1946	2512	2267	2891	2642	3318		75	
	50		1792	2420	2088	2728	2433	3110	2835	3569	3303	4112		89	
	55		2151	2877	2507	3246	2921	3703	3403	4251	3965	4899		103	
	60		2505	3321	2919	3749	3401	4280	3963	4915	4618	5667		116	
	65		2850	3749	3321	4234	3869	4836	4508	5556	5253	6407		128	
	70		3183	4155	3708	4698	4321	5368	5035	6169	5866	7116		139	
45	45		1152	1566	1343	1766	1564	2013	1823	2311	2124	2662		60	
	50		1472	1981	1716	2235	1999	2550	2329	2927	2714	3373		73	
	55		1799	2398	2097	2708	2443	3091	2846	3550	3317	4092		86	
	60		2127	2811	2478	3176	2888	3627	3364	4167	3920	4805		98	
	65		2450	3214	2855	3634	3326	4151	3876	4771	4516	5503		110	
	70		2766	3603	3223	4076	3755	4659	4375	5356	5098	6178		121	
	75		3072	3977	3580	4502	4171	5147	4860	5919	5663	6829		132	
50	50		1210	1609	1409	1830	1642	2089	1914	2399	2230	2766		60	
	55		1505	1998	1754	2258	2043	2579	2381	2964	2774	3417		72	
	60		1806	2379	2104	2690	2451	3073	2856	3532	3320	4074		83	
	65		2106	2755	2454	3117	2860	3563	3332	4096	3882	4725		94	
	70		2404	3124	2801	3536	3263	4043	3802	4649	4430	5364		105	
	75		2695	3481	3140	3943	3659	4510	4263	5186	4968	5985		116	
	80		2979	3826	3471	4336	4044	4960	4712	5706	5491	6587		125	
55	55		1259	1664	1467	1883	1709	2152	1991	2473	2320	2853		60	
	60		1533	2012	1786	2277	2081	2603	2425	2993	2825	3453		71	
	65		1811	2361	2110	2674	2458	3057	2865	3516	3338	4057		81	
	70		2089	2707	2434	3067	2836	3509	3304	4034	3850	4656		91	
	75		2364	3046	2755	3452	3210	3950	3740	4544	4358	5245		101	
	80		2635	3377	3070	3828	3577	4381	4168	5042	4856	5820		111	
60	60		1301	1701	1516	1927	1767	2204	2059	2535	2399	2926		60	
	65		1557	2022	1814	2292	2114	2623	2463	3017	2869	3482		70	
	70		1815	2345	2115	2659	2465	3043	2872	3501	3346	4041		79	
	75		2074	2665	2416	3022	2816	3459	3281	3981	3823	4596		89	
	80		2330	2979	2715	3380	3164	3869	3686	4453	4295	5142		98	
	65	65		1338	1731	1559	1964	1817	2249	2117	2588	2467	2988		60
70			1578	2031	1838	2304	2142	2638	2496	3037	2908	3506		69	
75			1819	2330	2120	2645	2470	3029	2878	3487	3353	4026		78	
80			2061	2628	2401	2983	2798	3417	3260	3933	3798	4543		87	
70		70		1371	1758	1597	1996	1861	2287	2169	2634	2527	3042		60
		75		1596	2037	1859	2314	2167	2651	2524	3053	2941	3526		68
	80		1823	2317	2124	2632	2475	3016	2883	3474	3359	4012		77	
	75	75		1400	1780	1631	2024	1901	2320	2215	2673	2580	3088		60
		80		1612	2042	1878	2322	2189	2662	2550	3067	2971	3544		68
		80	80		1426	1799	1661	2048	1936	2343	2255	2707	2620	3129		60

TABLE 6.--CURRENT AND PROJECTED TOTAL CUBIC FOOT VOLUME AND BASAL AREA PER ACRE
FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED BASAL AREA	
INITIAL AGE	FINAL AGE	50		60		70		80		90		SO. FT.	
YEARS		I	I. B.	O. B.	I. B.	O. B.	I. B.	O. B.	I. B.	O. B.	I	O. B.	
70 SQ. FT. INITIAL BASAL AREA													
20	20	731	1141	852	1264	933	1425	1157	1622	1348	1858	70	
	25	1308	1961	1524	2183	1776	2463	2069	2817	2411	3232	101	
	30	1927	2810	2242	3138	2516	3407	3048	4062	3552	4665	128	
	35	2542	3627	2961	4059	3451	4588	4021	5397	4685	6056	152	
	40	3128	4386	3645	4918	4247	5588	4948	6432	5766	7357	173	
	45	3676	5079	4283	5704	4991	6487	5815	7432	6776	8552	191	
50	4183	5707	4874	6417	5679	7305	6617	8374	7710	9641	207		
25	25	911	1363	1061	1518	1236	1717	1440	1960	1678	2248	70	
	30	1425	2074	1660	2317	1935	2626	2254	3001	2627	3447	95	
	35	1962	2795	2286	3129	2664	3552	3104	4064	3617	4672	117	
	40	2494	3491	2906	3916	3386	4451	3346	5096	4598	5862	138	
	45	3006	4146	3503	4658	4081	5300	4755	6072	5541	6989	157	
	50	3490	4754	4067	5348	4738	6089	5521	6982	6433	8039	173	
55	3944	5314	4595	5984	5354	6819	6238	7822	7269	9010	188		
30	30	1054	1529	1228	1710	1431	1939	1667	2216	1942	2546	70	
	35	1515	2152	1765	2411	2057	2738	2397	3134	2792	3603	91	
	40	1989	2777	2318	3117	2700	3544	3147	4059	3666	4570	110	
	45	2458	3384	2864	3803	3337	4328	3889	4961	4531	5710	128	
	50	2912	3953	3393	4456	3954	5075	4607	5820	5367	6702	144	
	55	3345	4500	3898	5069	4541	5778	5291	6629	6165	7637	159	
60	3755	5003	4375	5641	5097	6434	5939	7386	6920	8511	173		
35	35	1170	1656	1363	1857	1588	2110	1850	2415	2156	2778	70	
	40	1586	2208	1848	2480	2153	2821	2509	3232	2924	3719	88	
	45	2010	2760	2342	3104	2723	3534	3180	4051	3705	4664	105	
	50	2430	3296	2831	3712	3299	4229	3844	4851	4470	5587	121	
	55	2837	3809	3306	4293	3852	4895	4488	5618	5230	6472	135	
	60	3229	4295	3762	4845	4383	5521	5107	6346	5951	7314	149	
65	3602	4751	4197	5364	4890	6123	5698	7033	6633	8108	161		
40	40	1265	1755	1474	1973	1717	2245	2001	2573	2331	2962	70	
	45	1644	2250	1915	2533	2232	2885	2600	3300	3030	3809	86	
	50	2027	2743	2362	3091	2752	3523	3207	4042	3737	4656	101	
	55	2407	3224	2804	3635	3267	4146	3807	4760	4436	5585	115	
	60	2776	3686	3235	4160	3769	4747	4392	5452	5117	6284	128	
	65	3133	4126	3651	4661	4254	5321	4957	6113	5775	7048	140	
70	3476	4543	4050	5135	4719	5866	5498	6741	6406	7775	152		
45	45	1344	1833	1566	2065	1825	2354	2126	2700	2478	3110	70	
	50	1691	2282	1971	2573	2236	2934	2676	3367	3118	3880	84	
	55	2041	2727	2378	3077	2771	3512	3229	4032	3762	4647	97	
	60	2388	3162	2782	3571	3241	4077	3777	4683	4401	5399	110	
	65	2726	3582	3176	4048	3701	4624	4312	5313	5024	6127	122	
	70	3054	3985	3558	4506	4146	5149	4831	5918	5629	6826	134	
75	3370	4393	3927	4943	4575	5651	5331	6497	6212	7495	144		
50	50	1411	1897	1644	2141	1915	2443	2232	2804	2601	3232	70	
	55	1731	2306	2017	2604	2351	2973	2739	3415	3191	3937	83	
	60	2053	2712	2332	3065	2787	3500	3248	4021	3784	4637	95	
	65	2372	3109	2763	3516	3220	4017	3751	4617	4371	5325	106	
	70	2683	3494	3127	3953	3643	4519	4245	5195	4946	5993	117	
	75	2987	3865	3480	4375	4055	5003	4725	5753	5505	6638	128	
80	3280	4220	3822	4779	4453	5467	5189	6288	6046	7257	138		
55	55	1469	1949	1711	2203	1994	2516	2323	2891	2707	3334	70	
	60	1766	2325	2057	2629	2397	3004	2793	3453	3254	3903	81	
	65	2063	2698	2404	3053	2801	3489	3264	4011	3803	4627	92	
	70	2358	3063	2747	3468	3201	3965	3730	4559	4346	5261	103	
	75	2647	3418	3084	3872	3594	4428	4187	5093	4879	5878	113	
	80	2929	3761	3413	4262	3971	4877	4634	5610	5333	6476	123	
60	60	1518	1992	1769	2255	2061	2578	2402	2964	2798	3420	70	
	65	1795	2340	2091	2650	2437	3030	2839	3484	3308	4021	80	
	70	2072	2684	2414	3041	2813	3473	3277	4001	3819	4617	91	
	75	2346	3023	2734	3425	3185	3919	3711	4589	4324	5205	101	
	80	2616	3352	3048	3800	3551	4350	4138	5005	4821	5778	110	
	65	65	1561	2029	1819	2299	2120	2631	2470	3026	2878	3493	70
70		1820	2352	2121	2666	2471	3051	2880	3510	3355	4052	80	
75		2079	2672	2423	3030	2823	3468	3289	3991	3832	4608	89	
80		2336	2987	2722	3388	3171	3873	3695	4464	4305	5155	98	
70	70	1600	2060	1864	2337	2172	2676	2530	3079	2948	3556	70	
	75	1843	2361	2147	2680	2502	3069	2915	3532	3397	4079	73	
	80	2086	2660	2430	3020	2832	3459	3300	3982	3845	4598	88	
75	75	1633	2086	1903	2369	2217	2714	2584	3126	3010	3610	70	
	80	1863	2369	2170	2691	2529	3083	2947	3551	3433	4101	78	
80	80	1663	2109	1938	2397	2258	2748	2631	3166	3066	3658	70	

TABLE 7.--CURRENT AND PROJECTED TOTAL CUBIC FOOT VOLUME AND BASAL AREA PER ACRE
FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED	
INITIAL AGE	FINAL AGE	50		60		70		80		90		BASAL AREA	
YEARS	I	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	SQ. FT.	
80 SD. FT. INITIAL BASAL AREA													
20	20	836	1303	974	1444	1135	1628	1322	1854	1541	2123	80	
	25	1455	2183	1696	2430	1976	2748	2302	3135	2683	3596	112	
	30	2107	3073	2454	3431	2860	3888	3332	4442	3883	5101	140	
	35	2743	3917	3196	4383	3724	4973	4339	5688	5056	6538	164	
	40	3344	4691	3896	5259	4540	5975	5290	6840	6164	7867	185	
	45	3901	5392	4545	6054	5296	6886	6171	7888	7190	9077	203	
50	4413	6023	5141	6771	5991	7708	6980	8835	8133	10171	219		
25	25	1041	1559	1213	1736	1413	1963	1646	2240	1918	2570	80	
	30	1593	2320	1856	2591	2162	2936	2520	3356	2936	3854	106	
	35	2159	3077	2515	3444	2931	3910	3415	4472	3973	5141	129	
	40	2712	3798	3159	4259	3681	4840	4289	5542	4998	6374	150	
	45	3238	4469	3712	5019	4396	5710	5122	6542	5969	7529	169	
	50	3731	5086	4347	5719	5066	6512	5902	7466	6877	8596	185	
55	4190	5649	4883	6361	5689	7248	6629	8314	7724	9576	200		
30	30	1700	1750	1403	1956	1635	2217	1905	2534	2220	2911	80	
	35	2216	2416	1939	2706	2306	3073	2687	3516	3131	3942	102	
	40	2712	3077	2515	3444	2931	3910	3415	4472	3973	5141	122	
	45	3238	4469	3712	5019	4396	5710	5122	6542	5969	7529	140	
	50	3731	5086	4347	5719	5066	6512	5902	7466	6877	8596	156	
	55	4190	5649	4883	6361	5689	7248	6629	8314	7724	9576	171	
60	4651	6223	5341	6971	6291	8008	7380	9235	8645	10711	185		
35	35	1337	1896	1558	2125	1815	2414	2115	2763	2464	3177	80	
	40	1783	2486	2077	2791	2420	3174	2820	3636	3286	4183	99	
	45	2230	3066	2599	3447	3028	3924	3528	4498	4111	5178	116	
	50	2668	3624	3108	4079	3622	4647	4220	5329	4917	6137	132	
	55	3089	4151	3599	4678	4194	5333	4886	6119	5693	7050	147	
	60	3490	4647	4067	5241	4738	5978	5521	6863	6433	7909	161	
65	3870	5110	4510	5768	5254	6583	6122	7560	7134	8715	174		
40	40	1446	2010	1684	2258	1963	2569	2287	2944	2664	3388	80	
	45	1851	2538	2157	2856	2513	3252	2928	3728	3412	4293	96	
	50	2256	3057	2628	3443	3063	3924	3568	4501	4158	5185	112	
	55	2652	3557	3090	4010	3601	4573	4195	5249	4888	6048	126	
	60	3035	4034	3536	4551	4120	5193	4801	5963	5594	6873	140	
	65	3402	4484	3964	5064	4618	5781	5381	6640	6270	7656	153	
70	3751	4908	4371	5547	5093	6335	5934	7279	6914	8395	164		
45	45	1536	2100	1790	2365	2086	2694	2430	3090	2832	3558	80	
	50	1907	2579	2223	2906	2590	3313	3017	3801	3516	4379	95	
	55	2277	3047	2653	3437	3091	3921	3602	4501	4197	5187	109	
	60	2639	3501	3075	3952	3583	4510	4175	5180	4864	5971	122	
	65	2990	3935	3484	4445	4059	5076	4730	5831	5511	6724	134	
	70	3328	4347	3877	4915	4518	5615	5264	6453	6134	7442	146	
75	3651	4738	4254	5360	4957	6126	5776	7042	6730	8124	156		
50	50	1613	2174	1879	2452	2190	2796	255	3209	2973	3698	80	
	55	1955	2610	2278	2946	2654	3361	3092	3860	3603	4449	93	
	60	2295	3037	2674	3431	3115	3917	3630	4439	4230	5187	106	
	65	2628	3452	3062	3901	3560	4456	4157	5120	4844	5905	118	
	70	2952	3650	3440	4354	4008	4976	4670	5719	5441	6597	129	
	75	3265	4230	3804	4787	4433	5473	5165	6293	6018	7260	140	
80	3566	4593	4155	5200	4841	5947	5641	6840	6572	7893	150		
55	55	1678	2234	1956	2523	2279	2881	2655	3309	3094	3815	80	
	60	1995	2634	2325	2977	2709	3401	3156	3907	3678	4506	92	
	65	2310	3027	2691	3423	3136	3912	3654	4496	4258	5186	104	
	70	2619	3408	3051	3857	3555	4409	4142	5068	4827	5847	115	
	75	2919	3776	3402	4275	3964	4889	4618	5622	5381	6487	125	
	80	3211	4129	3741	4677	4359	5350	5079	6154	5918	7103	135	
60	60	1735	2284	2022	2583	2356	2952	2745	3393	3198	3913	80	
	65	2030	2654	2366	3003	2755	3433	3212	3947	3742	4553	91	
	70	2323	3017	2707	3416	3154	3906	3675	4491	4282	5182	102	
	75	2611	3370	3042	3817	3544	4367	4130	5022	4812	5796	112	
	80	2891	3712	3369	4206	3925	4813	4574	5537	5329	6391	122	
	65	65	1785	2326	2079	2634	2423	3012	2823	3464	3289	3997	80
70		2061	2670	2401	3024	2798	3460	3260	3973	3798	4593	90	
75		2334	3007	2720	3408	3169	3900	3693	4486	4303	5178	100	
80		2604	3336	3034	3782	3535	4329	4118	4981	4799	5751	110	
70	70	1828	2362	2130	2677	2482	3064	2892	3525	3369	4069	80	
	75	2087	2683	2432	3042	2834	3482	3302	4007	3847	4626	89	
	80	2344	2998	2732	3401	3183	3893	3709	4481	4321	5174	99	
75	75	1867	2393	2175	2715	2534	3109	2953	3578	3440	4132	80	
	80	2111	2693	2460	3057	2866	3501	3339	4030	3691	4654	89	
80	80	1901	2419	2215	2747	2581	3148	3007	3625	3504	4187	80	

TABLE 8.--CURRENT AND PROJECTED TOTAL CUBIC FOOT VOLUME AND BASAL AREA PER ACRE
FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE		FINAL AGE		SITE INDEX								PROJECTED BASAL AREA			
				50		60		70		80		90			
YEARS		I.E.	O.B.	I.B.	O.B.	I.E.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	SQ. FT.	
90 SQ. FT. INITIAL BASAL AREA															
20	20	940	1466	1096	1624	1277	1832	1488	2085	1733	2389			90	
	25	2399	3338	2853	3678	3020	3945	3250	4200	3518	4440			123	
	30													151	
	35	2934	4191	3419	4689	3984	5321	4642	6086	5408	6994			176	
	40	3547	4978	4133	5580	4815	6339	5611	7251	6537	8345			196	
	45	4111	5684	4790	6381	5581	7257	6503	8314	7517	9566			214	
25	50	4625	6315	5389	7099	6280	8081	7317	9263	8525	10664			229	
	25	1171	1755	1364	1954	1589	2209	1852	2521	2158	2892			90	
	30	1757	2561	2047	2860	2385	3241	2773	3703	3239	4253			117	
	35	2348	3349	2736	3149	3188	4254	3714	4867	4328	5594			141	
	40	2919	4090	3401	4587	3962		4617	5967	5380	6863			162	
	45	3457	4774	4028	5361	4633	6098	5468	6986	6371	8040			180	
30	50	3958	5397	4611	6069	5373	6909	6260	7921	7294	9119			196	
	55	4421	5963	5151	6713	6002	7648	6993	8773	8148	10104			211	
	30	1355	1971	1579	2202	1839	2496	2143	2853	2497	3277			90	
	35	1879	2675	2190	2936	2551	3401	2973	3891	3464	4473			112	
	40	2402	3360	2798	3769	3261	4284	3799	4906	4427	5643			133	
	45	2907	4008	3387	4503	3946	5123	4598	5870	5357	6756			151	
35	50	3386	4611	3945	5187	4597	5907	5356	6772	6241	7798			168	
	55	3837	5168	4470	5820	5209	6632	6069	7608	7071	8764			183	
	60	4257	5680	4961	6403	5780	7301	6735	8380	7847	9656			196	
	35	1504	2136	1752	2333	2042	2718	2379	3110	2772	3576			90	
	40	1976	2759	2303	3097	2683	3521	3126	4033	3643	4640			109	
	45	2444	3364	2848	3781	3318	4303	3866	4932	4505	5677			127	
40	50	2897	3939	3376	4433	3833	5049	4503	5790	5340	6667			144	
	55	3329	4478	3879	5045	4520	5751	5267	6598	6137	7601			159	
	60	3738	4981	4356	5617	5075	6406	5914	7354	6891	8475			172	
	65	4124	5448	4805	6149	5598	7017	6523	8058	7601	9289			185	
	40	1626	2265	1895	2544	2208	2893	2513	3315	2997	3814			90	
	45	2055	2823	2335	3174	2790	3614	3251	4143	3788	4770			107	
45	50	2479	3364	2888	3787	3365	4315	3921	4949	4559	5700			123	
	55	2889	3880	3366	4373	3923	4985	4570	5721	5325	6592			138	
	60	3283	4368	3825	4927	4457	5621	5193	6453	6051	7437			151	
	65	3659	4826	4262	5448	4966	6219	5786	7142	6741	8234			164	
	70	4013	5254	4675	5936	5447	6780	6347	7789	7336	8982			176	
	50	45	1728	2368	2014	2664	2346	3034	2734	3479	3186	4006			90
50		2121	2872	2471	3235	2879	3687	3355	4230	3909	4872			105	
55		2507	3361	2921	3789	3404	4322	3966	4960	4621	5716			120	
60		2883	3829	3359	4321	3914	4931	4560	5662	5313	6526			133	
65		3244	4274	3780	4827	4404	5511	5132	6330	5979	7299			145	
70		3590	4694	4182	5305	4873	6060	5678	6963	6616	8031			157	
55	75	3919	5090	4566	5756	5320	6578	6199	7561	7222	8723			168	
	50	1815	2451	2114	2762	2463	3150	2870	3615	3344	4164			90	
	55	2176	2910	2535	3283	2854	3745	3442	4300	4011	4956			104	
	60	2531	3356	2950	3789	3437	4325	4004	4967	4666	5726			117	
	65	2977	3784	3353	4276	3906	4883	4552	5610	5303	6469			129	
	70	3211	4193	3741	4741	4359	5416	5080	6225	5919	7180			141	
60	75	3532	4581	4115	5183	4795	5924	5587	6810	6509	7867			151	
	80	3838	4949	4472	5602	5211	6405	6071	7366	7074	8500			162	
	55	1888	2519	2200	2844	2564	3245	2987	3727	3480	4296			90	
	60	2223	2941	2590	3322	3018	3793	3516	4357	4097	5024			102	
	65	2552	3350	2974	3787	3465	4326	4037	4971	4704	5733			114	
	70	2873	3745	3347	4236	3900	4841	4544	5564	5255	6418			126	
65	75	3183	4122	3709	4666	4321	5334	5035	6133	5866	7077			136	
	80	3482	4483	4057	5076	4727	5806	5508	6677	6417	7706			147	
	60	1952	2576	2274	2912	2650	3326	3088	3822	3598	4407			90	
	65	2263	2965	2637	3354	3073	3832	3581	4405	4172	5081			101	
	70	2570	3344	2934	3784	3489	4325	4065	4973	4736	5737			112	
	75	2869	3709	3342	4200	3894	4803	4538	5523	5287	6373			123	
70	80	3158	4061	3680	4600	4288	5262	4936	6053	5821	6986			133	
	65	2008	2624	2339	2963	2726	3394	3176	3902	3700	4502			90	
	70	2233	2985	2679	3380	3121	3865	3637	4444	4237	5128			101	
	75	2585	3337	3012	3780	3510	4324	4090	4973	4765	5740			111	
	80	2865	3678	3338	4168	3890	4763	4532	5486	5281	6333			121	
	75	70	2057	2664	2336	3018	2792	3453	3253	3971	3791	4583			90
75		2330	3001	2715	3402	3163	3892	3686	4478	4235	5169			100	
80		2599	3330	3028	3775	3528	4321	4111	4972	4790	5740			109	
75		2100	2639	2447	3061	2851	3503	3322	4031	3870	4654			90	
80		2358	3015	2747	3420	3201	3915	3729	4506	4345	5203			99	
80		80	2139	2723	2492	3097	2903	3547	3383	4084	3942	4716			90

TABLE O. --CURRENT AND PROJECTED TOTAL CUBIC FOOT VOLUME AND BASAL AREA PER ACRE
FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE		FINAL AGE		SITE INDEX										PROJECTED BASAL AREA SQ. FT.	
				50		60		70		80		90			
				I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.		
100 SQ. FT. INITIAL BASAL AREA															
20	20	1045	1628	1217	1805	1419	2035	1653	2317	1926	2654	100			
	25	1740	2611	2027	2906	2362	3286	2752	3749	3207	4300	134			
	30	2444	3569	2848	3984	3319	4513	3867	5156	4505	5921	162			
	35	3116	4453	3631	4982	4231	5652	4930	6464	5744	7429	186			
	40	3739	5249	4356	5893	5076	6683	5914	7650	6891	8798	207			
	45	4308	5959	5019	6689	5848	7607	6814	8714	7940	10026	224			
50	4825	6599	5621	7407	6550	8430	7632	9663	8892	11124	239				
25	25	1301	1950	1516	2171	1766	2455	2058	2801	2398	3214	100			
	30	1918	2797	2235	3123	2604	3539	3034	4044	3536	4644	127			
	35	2532	3613	2950	4043	3437	4588	4005	5248	4686	6032	152			
	40	3117	4371	3632	4901	4232	5568	4931	6375	5746	7332	173			
	45	3665	5064	4270	5686	4976	6467	5798	7409	6755	8526	191			
	50	4172	5691	4861	6399	5663	7285	6599	8351	7689	9614	207			
55	4638	6258	5404	7044	6296	8025	7336	9205	8548	10602	221				
30	30	1505	2192	1754	2448	2044	2775	2381	3171	2775	3642	100			
	35	2057	2930	2397	3281	2792	3724	3254	4260	3791	4897	123			
	40	2599	3639	3028	4082	3529	4639	4112	5311	4791	6109	144			
	45	3118	4302	3633	4833	4233	5498	4933	6300	5747	7250	162			
	50	3607	4915	4203	5528	4897	6294	5706	7216	6648	8309	179			
	55	4063	5477	4735	6167	5517	7027	6428	8061	7490	9284	194			
60	4488	5930	5223	6751	6093	7698	7099	8835	8271	10180	207				
35	35	1671	2376	1947	2661	2269	3022	2643	3458	3080	3975	100			
	40	2167	3029	2525	3399	2942	3864	3428	4425	3994	5090	120			
	45	2653	3655	3091	4107	3602	4673	4197	5356	4890	6164	138			
	50	3119	4244	3634	4775	4234	5438	4934	6235	5748	7180	155			
	55	3560	4792	4148	5398	4833	6152	5632	7059	6562	8130	170			
	60	3975	5300	4632	5976	5397	6815	6269	7822	7327	9014	183			
65	4364	5769	5085	6510	5925	7429	6904	8531	8044	9833	196				
40	40	1807	2520	2105	2829	2453	3217	2858	3685	3330	4240	100			
	45	2257	3104	2630	3489	3064	3972	3570	4552	4160	5240	118			
	50	2 6 9	7	3142	6 5 3	3661	4697	4266	5307	4970	6204	134			
	55	3119	4193	3635	4724	4235	5385	4934	6180	5743	7119	149			
	60	3522	4689	4103	5289	4781	6033	5571	6925	6491	7981	162			
	65	3903	5153	4547	5816	5298	6638	6173	7623	7193	8788	175			
70	4261	5584	4965	6308	5786	7203	6741	8275	7855	9542	186				
45	45	1920	2635	2238	2964	2607	3375	3038	3869	3539	4455	100			
	50	2332	3162	2717	3560	3166	4057	3688	4654	4298	5360	116			
	55	2733	3668	3184	4134	3710	4714	4323	5410	5037	6233	130			
	60	3120	4148	3635	4680	4236	5340	4935	6131	5750	7066	144			
	65	3490	4601	4066	5196	4737	5931	5520	6812	6432	7854	156			
	70	3841	5027	4475	5680	5215	6488	6076	7455	7080	8597	168			
75	4174	5426	4864	6135	5667	7011	6603	8058	7694	9279	179				
50	50	2016	2720	2349	3073	2737	3503	3189	4020	3716	4631	100			
	55	2395	3207	2790	3617	3251	4126	3788	4736	4414	5457	114			
	60	2764	3669	3220	4141	3752	4726	4372	5426	5094	6255	127			
	65	3120	4108	3648	4686	4236	5299	4936	6087	5751	7019	140			
	70	3462	4525	4034	5115	4700	5843	5477	6715	6381	7744	152			
	75	3789	4919	4414	5564	5143	6358	5993	7309	6983	8432	162			
80	4099	5290	4777	5987	5565	6845	6485	7870	7556	9081	173				
55	55	2098	2804	2445	3164	2848	3610	3319	4145	3877	4777	100			
	60	2448	3244	2853	3663	3324	4182	3873	4803	4513	5537	113			
	65	2790	3668	3251	4144	3788	4733	4413	5438	5142	6272	125			
	70	3121	4073	3636	4605	4237	5262	4936	6040	5752	6976	137			
	75	3439	4459	4006	5045	4668	5767	5439	6630	6338	7649	147			
	80	3743	4825	4362	5462	5082	6246	5921	7183	6899	8288	158			
60	60	2169	2868	2527	3240	2945	3700	3431	4250	3998	4901	100			
	65	2495	3274	2907	3701	3387	4228	3946	4859	4598	5604	112			
	70	2813	3665	3277	4146	3819	4739	4449	5447	5184	6284	123			
	75	3121	4041	3636	4574	4237	5229	4937	6013	5752	6938	134			
80	3418	4400	3983	4983	4640	5693	5407	6554	6300	7564	144				
65	65	2231	2921	2599	3304	3028	3776	3523	4340	4111	5006	100			
	70	2535	3298	2954	3732	3442	4261	4010	4905	4673	5660	111			
	75	2832	3662	3300	4146	3845	4742	4481	5453	5221	6233	121			
	80	3121	4012	3637	4545	4237	5199	4937	5981	5753	6903	131			
70	70	2285	2967	2662	3359	3102	3841	3615	4417	4212	5097	100			
	75	2571	3318	2995	3758	3490	4299	4067	4945	4738	5707	110			
	80	2850	3658	3321	4145	3869	4743	4508	5457	5253	6299	120			
75	75	2333	3006	2719	3406	3168	3898	3691	4484	4300	5176	100			
	80	2602	3334	3032	3780	3533	4327	4116	4979	4796	5748	110			
80	80	2376	3039	2769	3447	3226	3947	3759	4542	4380	5245	100			

TABLE 10.--CURRENT AND PROJECTED TOTAL CUBIC FOOT VOLUME AND BASAL AREA PER ACRE
FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE		FINAL AGE		SITE INDEX										PROJECTED BASAL AREA	
				50		60		70		80		90			
YEARS		I	O.B.	I.B.	O.B.	I.B.	O.O.	I.B.	O.B.	I.B.	O.B.	I	SQ. FT.		
110 SQ. FT. INITIAL BASAL AREA															
20	20	1149	1791	1339	1985	1550	2238	1818	2548	2118	2919	110			
	25	1878	2818	2188	3137	2543	3547	2970	4046	3461	4641	144			
	30	2605	3804	3035	4245	3536	4810	4120	5495	4801	6310	173			
	35	3291	4703	3834	5262	4468	5970	5205	6827	6065	7946	197			
	40	3921	5507	4559	6172	5324	7011	6203	8025	7227	9228	217			
	45	4494	6218	5236	6980	6101	7937	7109	9092	8283	10461	234			
50	5012	6847	5840	7696	6805	8759	7928	10040	9238	11558	249				
25	25	1431	2146	1667	2389	1943	2701	2264	3082	2637	3536	110			
	30	2077	3030	2420	3383	2820	3833	3285	4379	3828	5039	138			
	35	2710	3869	3158	4329	3679	4913	4287	5619	4938	6381	162			
	40	3309	4641	3855	5203	4492	5912	5234	6768	6035	7781	183			
	45	3864	5341	4503	5397	5246	6821	6113	7814	7122	8991	201			
	50	4375	5971	5098	6713	5940	7642	6921	8760	8064	10085	217			
55	4943	6537	5643	7359	6575	8382	7661	9614	8927	11073	231				
30	30	1656	2412	1929	2694	2248	3053	2620	3489	3052	4007	110			
	35	2232	3182	2601	3562	3030	4043	3531	4625	4114	5316	134			
	40	2792	3911	3253	4386	3790	4984	4416	5707	5146	6564	155			
	45	3323	4587	3872	5152	4511	5861	5256	6715	6124	7727	173			
	50	3819	5207	4450	5855	5185	6667	6042	7643	7040	8800	189			
	55	4280	5771	4987	6498	5811	7404	6771	8493	7889	9782	204			
60	4707	6285	5404	7033	6390	8076	7445	9268	8675	10678	217				
35	35	1838	2616	2142	2930	2495	3326	2908	3805	3388	4375	110			
	40	2356	3295	2745	3697	3198	4202	3726	4812	4342	5535	130			
	45	2857	3939	3329	4425	3879	5035	4519	5770	5266	6641	149			
	50	3334	4540	3885	5107	4526	5815	5274	6668	6145	7678	165			
	55	3783	5095	4408	5738	5136	6539	5984	7502	6972	8641	180			
	60	4203	5606	4897	6320	5706	7207	6648	8272	7746	9532	194			
65	4594	6076	5353	6856	6237	7823	7268	8982	8468	10353	206				
40	40	1988	2775	2316	3115	2698	3542	3144	4056	3664	4667	110			
	45	2457	3391	2862	3801	3335	4325	3886	4957	4528	5706	128			
	50	2910	3957	3391	4453	3951	5072	4604	5817	5364	6698	144			
	55	3343	4497	3895	5066	4539	5775	5239	6625	6162	7633	159			
	60	3753	5000	4373	5639	5095	6339	5936	7382	6917	8507	173			
	65	4138	5467	4822	6170	5618	6431	6546	8036	7627	9322	186			
70	4500	5900	5243	6664	6109	7602	7118	8741	8294	10079	197				
45	45	2112	2902	2461	3263	2868	3715	3341	4259	3893	4903	110			
	50	2541	3449	2960	3883	3449	4423	4019	5073	4633	5343	126			
	55	2955	3969	3443	4473	4011	5099	4674	5852	5446	6742	141			
	60	3351	4459	3904	5030	4549	5738	5301	6588	6176	7592	155			
	65	3728	4919	4343	5553	5061	6339	5896	7280	6870	8392	167			
	70	4084	5349	4758	6043	5544	6901	6460	7928	7527	9143	179			
75	4420	5749	5150	6500	6001	7426	6992	8535	8147	9844	189				
50	50	2218	3005	2584	3385	3011	3857	3508	4425	4089	5097	110			
	55	2611	3502	3043	3948	3545	4502	4131	5167	4815	5954	124			
	60	2992	3976	3486	4487	4062	5119	4733	5878	5515	6775	138			
	65	3358	4425	3912	4997	4558	5705	5311	6553	6188	7555	151			
	70	3706	4848	4316	5479	5031	6258	5862	7191	6831	8293	162			
	75	4037	5246	4704	5932	5481	6779	6386	7792	7441	8988	173			
80	4351	5618	5070	6358	5907	7268	6883	8356	8020	9642	193				
55	55	2308	3089	2689	3485	3133	3975	3651	4563	4254	5253	110			
	60	2672	3545	3113	4002	3627	4567	4227	5245	4925	6046	123			
	65	3024	3980	3524	4497	4106	5135	4784	5899	5574	6802	136			
	70	3363	4394	3919	4967	4566	5675	5320	6522	6199	7522	147			
	75	3687	4786	4297	5414	5006	6187	5833	7113	6797	8206	158			
	80	3997	5156	4657	5835	5426	6672	6322	7672	7367	8853	168			
60	60	2386	3160	2790	3568	3239	4074	3774	4679	4397	5395	110			
	65	2724	3580	3174	4046	3698	4621	4309	5309	5021	6123	122			
	70	3052	3982	3556	4503	4144	5146	4828	5914	5625	6822	134			
	75	3368	4366	3924	4940	4573	5647	5329	6493	6203	7491	144			
	80	3671	4731	4273	5356	4984	6125	5808	7044	6767	8128	155			
	65	65	2454	3213	2859	3639	3331	4158	3882	4773	4523	5511	110		
70		2770	3608	3227	4082	3760	4666	4381	5363	5105	6137	121			
75		3076	3982	3534	4508	4177	5154	4866	5937	5678	6838	132			
80		3372	4340	3929	4915	4578	5622	5335	6487	6208	7462	142			
70		2514	3269	2929	3700	3412	4230	3976	4936	4633	5611	110			
75		2810	3632	3274	4113	3815	4704	4445	5409	5179	6242	120			
80	3098	3981	3609	4511	4206	5160	4900	5936	5710	6851	130				
75	75	2567	3312	2990	3752	3484	4292	4060	4937	4731	5698	110			
	80	2846	3652	3316	4139	3863	4736	4501	5449	5245	6239	120			
	80	2614	3350	3046	3797	3549	4346	4135	5001	4818	5714	110			

TABLE 11.--CURRENT AND PROJECTED TOTAL CUBIC FOOT VOLUME AND BASAL AREA PER ACRE
FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE		FINAL AGE		SITE INDEX										PROJECTED BASAL AREA					
				50		60		70		80		90							
				I.	O.B.	I.	O.B.	I.	O.B.	I.	O.B.	I.	O.B.						
YEARS				120 SO. FT. INITIAL BASAL AREA															
20	20	1254	1953	1461	2165	1702	2441	1983	2780	2311	3184	120							
	25	2013	3022	2346	3363	2733	3803	3195	4339	3711	4976	155							
	30	2760	4032	3216	4500	3748	5098	4367	5824	5088	6698	183							
	35	3458	4944	4030	5531	4695	6275	5471	7176	6374	8247	207							
	40	4096	5753	4772	6447	5560	7324	6479	8383	7549	9640	227							
	45	4671	6465	5443	7256	6342	8251	7389	9451	8610	10875	243							
	50	5190	7091	6047	7970	7046	9071	8209	10397	9565	11968	257							
25	25	1561	2342	1819	2607	2119	2947	2469	3363	2877	3858	120							
	30	2233	3259	2802	3638	3032	4122	3532	4709	4116	5408	148							
	35	2884	4119	3360	4608	3915	5229	4562	5981	5315	6874	173							
	40	3494	4902	4071	5496	4743	6244	5526	7147	6439	8219	193							
	45	4056	5608	4726	6236	5506	7160	6416	8202	7475	9438	211							
	50	4570	6233	5325	7013	6204	7983	7229	9151	8423	10535	227							
	55	5039	6803	5871	7656	6840	8722	7970	10003	9287	11521	240							
30	30	1806	2633	2105	2940	2453	3332	2858	3907	3330	4373	120							
	35	2405	3430	2802	3839	3265	4357	3804	4984	4432	5729	144							
	40	2980	4177	3472	4684	4046	5322	4714	6093	5493	7088	165							
	45	3521	4863	4103	5462	4780	6212	5570	7117	6490	8190	183							
	50	4024	5488	4689	6171	5463	7026	6365	8054	7417	9273	200							
	55	4488	6054	5230	6816	6093	7765	7100	8907	8273	10259	214							
	60	4916	6567	5728	7400	6674	8437	7776	9682	9061	11156	227							
35	35	2005	2855	2336	3198	2722	3630	3172	4153	3696	4774	120							
	40	2542	3558	2962	3991	3451	4536	4021	5194	4685	5974	141							
	45											159							
	50	350	367	427	427	478	5430	4150	4811	5390	6183	176							
	55	3998	5388	4659	6067	5428	6913	6325	7931	7369	9135	191							
	60	4422	5901	5152	6651	6003	7584	6994	8705	8150	10030	204							
	65	4815	6370	5610	7187	6536	8200	7616	9415	8874	10852	216							
40	40	2168	3031	2526	3401	2944	3866	3430	4427	3997	5093	120							
	45	2654	3656	3093	4109	3603	4676	4199	5358	4892	6167	138							
	50	3120	4246	3636	4777	4236	5440	4936	6238	5751	7183	155							
	55	3562	4734	4150	5400	4835	6154	5634	7061	6565	8134	170							
	60	3977	5302	4634	5978	5399	6818	6291	7825	7330	9017	183							
	65	4366	5771	5087	6512	5927	7432	6906	8534	8047	9837	196							
	70	4729	6204	5511	7006	6421	7939	7481	9189	8717	10595	207							
45	45	2304	3170	2685	3563	3129	4056	3645	4648	4247	5351	120							
	50	2748	3733	3201	4202	3730	4786	4346	5489	5064	6322	136							
	55	3173	4265	3697	4806	4307	5478	5019	6286	5848	7242	151							
	60	3577	4764	4168	5372	4856	6128	5658	7034	6593	8107	165							
	65	3959	5226	4613	5901	5375	6735	6263	7734	7297	8916	177							
	70	4319	5660	5022	6393	5863	7300	6832	8387	7960	9671	189							
	75	4657	6061	5426	6851	6322	7827	7366	8995	8583	10374	200							
50	50	2419	3282	2819	3696	3285	4211	3827	4830	4459	5563	120							
	55	2826	3794	3293	4277	3837	4876	4471	5596	5209	6447	135							
	60	3217	4279	3749	4827	4368	5508	5089	6323	5930	7288	148							
	65	3590	4735	4183	5347	4874	6103	5679	7010	6617	8081	161							
	70	3944	5163	4595	5834	5354	6662	6238	7655	7269	8827	173							
	75	4278	5563	4985	6290	5808	7186	6768	8260	7885	9527	183							
	80	4594	5936	5353	6716	6237	7677	7267	8826	8468	10183	193							
55	55	2518	3375	2934	3805	3418	4340	3983	4981	4640	5739	120							
	60	2894	3844	3372	4337	3929	4950	4577	5683	5334	6551	133							
	65	3255	4289	3793	4844	4420	5530	5150	6352	6000	7324	146							
	70	3601	4709	4196	5323	4889	6080	5637	6986	6637	8057	158							
	75	3930	5105	4580	5774	5336	6598	6217	7584	7244	8749	168							
	80	4243	5478	4944	6199	5761	7087	6712	8148	7821	9401	179							
	60	60	2603	3452	3033	3897	3533	4448	4117	5108	4797	5888	120						
65		2952	3884	3440	4388	4008	5011	4670	5757	5441	6638	132							
70		3288	4295	3832	4856	4464	5548	5202	6376	6061	7354	144							
75		3611	4685	4207	5300	4902	6058	5712	6964	6655	8034	155							
80		3919	5054	4566	5721	5320	6541	6199	7522	7223	8679	165							
65	65	2677	3517	3119	3974	3634	4540	4234	5216	4934	6016	120							
	70	3003	3917	3499	4430	4077	5062	4750	5818	5535	6711	131							
	75	3317	4299	3865	4865	4504	5562	5248	6394	6114	7377	142							
	80	3619	4663	4217	5273	4914	6038	5725	6943	6671	8013	152							
70	70	2742	3572	3195	4041	3723	4618	4338	5309	5054	6125	120							
	75	3048	3945	3551	4465	4138	5106	4821	5871	5617	6774	131							
	80	3343	4302	3895	4872	4538	5572	5288	6409	6161	7397	141							
75	75	2800	3619	3262	4098	3801	4687	4429	5390	5161	6220	120							
	80	3087	3968	3597	4495	4191	5143	4884	5916	5691	6828	130							
80	80	2851	3660	3322	4148	3871	4746	4511	5460	5256	6303	120							

TABLE 12.--CURRENT AND PROJECTED TOTAL CUBIC FOOT VOLUME AND BASAL AREA PER ACRE
FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL		FINAL		SITE INDEX										PROJECTED	
AGE	AGE			50		60		70		80		90		BASAL AREA	
YEARS		I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	SQ. FT.	
130 SQ. FT. INITIAL BASAL AREA															
20	20	1358	2116	1583	2345	1844	2645	2149	3011	2504	3449			130	
	25	2146	3222	2501	3586	2914	4055	3395	4625	3956	5306			165	
	30	2912	4254	3333	4748	3953	5378	4606	6144	5367	7055			193	
	35	3620	5177	4218	5791	4915	6570	5727	7513	6673	8634			217	
	40	4263	5989	4367	6712	5787	7624	6743	8726	7857	10034			236	
	45	4840	6700	5640	7520	6572	8551	7657	9795	8922	11270			252	
	50	5358	7323	6243	8230	7275	9367	8476	10736	9876	12358			265	
25	25	1691	2536	1970	2824	2296	3194	2675	3643	3117	4179			130	
	30	2387	3485	2781	3890	3241	4407	3776	5035	4400	5782			159	
	35	3054	4363	3558	4881	4146	5538	4830	6334	5628	7279			183	
	40	3673	5156	4273	5779	4986	6565	5810	7515	6770	8642			203	
	45	4240	5664	4940	6583	5756	7407	6707	8576	7815	9868			221	
	50	4756	6435	5542	7301	6457	8311	7524	9526	8767	10966			236	
	55	5225	7056	6088	7942	7094	9047	8266	10375	9631	11949			249	
30	30	1957	2854	2280	3187	2657	3611	3096	4126	3607	4738			130	
	35	2575	3676	3001	4113	3437	4668	4074	5339	4747	6137			154	
	40	3164	4438	3687	4375	4236	5653	5006	6471	5833	7443			175	
	45	3714	5132	4328	5763	5042	6555	5675	7509	6846	8641			193	
	50	4222	5760	4919	6477	5732	7373	6679	8452	7782	9731			209	
	55	4689	6327	5463	7122	6365	8114	7417	9306	8642	10718			223	
	60	5117	6837	5962	7704	6947	8783	8094	10079	9431	11613			236	
35	35	2172	3096	2531	3466	2949	3334	3436	4501	4004	5173			130	
	40	2726	3819	3177	4283	3701	4867	4313	5573	5025	6409			151	
	45	3253	4491	3791	5044	4417	5738	5147	6574	5997	7566			169	
	50	3748	5108	4367	5745	5088	6541	5928	7499	6907	8634			186	
	55	4207	5672	4902	6366	5712	7277	6655	8347	7754	9614			201	
	60	4633	6186	5398	6972	6290	7343	7329	9123	8539	10511			214	
	65	5027	6653	5857	7505	6824	8563	7952	9831	9265	11332			225	
40	40	2349	3286	2737	3686	3189	4190	3716	4798	4330	5519			130	
	45	2850	3929	3321	4414	3809	5002	4508	5755	5253	6624			148	
	50	3327	4529	3876	5095	4516	5802	5262	6653	6131	7660			165	
	55	3775	5084	4399	5726	5125	6526	5972	7466	6958	8623			180	
	60	4195	5596	4888	6308	5695	7194	6636	8256	7732	9514			193	
	65	4586	6065	5344	6844	6227	7809	7255	8967	8453	10335			206	
	70	4951	6497	5769	7336	6721	8376	7831	9621	9125	11093			217	
45	45	2496	3437	2909	3863	3389	4396	3949	5038	4601	5799			130	
	50	2953	4015	3440	4518	4009	5146	4671	5902	5442	6796			146	
	55	3387	4557	3947	5134	4599	5852	5359	6714	6244	7734			161	
	60	3798	5062	4426	5707	5157	6510	6008	7472	7001	8611			175	
	65	4185	5529	4876	6240	5681	7121	6619	8127	7713	9426			188	
	70	4547	5962	5298	6733	6173	7688	7192	8832	8380	10184			199	
	75	4886	6362	5693	7191	6633	8214	7729	9439	9005	10887			209	
50	50	2621	3559	3054	4007	3558	4564	4146	5235	4831	6029			130	
	55	3040	4084	3542	4602	4127	5247	4808	6021	5603	6936			145	
	60	3439	4578	4007	5164	4669	5890	5440	6762	6339	7793			159	
	65	3818	5040	4449	5689	5183	6493	6040	7457	7037	8697			171	
	70	4176	5470	4865	6180	5669	7057	6605	8108	7696	9249			183	
	75	4513	5871	5258	6637	6127	7583	7139	8715	8318	10052			193	
	80	4830	6244	5628	7063	6557	8073	7640	9281	8902	10708			203	
55	55	2727	3660	3178	4126	3703	4704	4315	5399	5027	6221			130	
	60	3114	4140	3628	4671	4228	5329	4926	6119	5740	7053			144	
	65	3493	4593	4059	5186	4729	5921	5510	6800	6421	7840			156	
	70	3835	5019	4468	5671	5206	6477	6066	7442	7068	8583			168	
	75	4168	5418	4856	6126	5659	7000	6593	8046	7682	9281			179	
	80	4483	5791	5224	6552	6065	7490	7092	8612	8263	9936			189	
60	60	2820	3744	3285	4225	3828	4822	4460	5537	5197	6382			130	
	65	3178	4186	3703	4728	4315	5398	5028	6201	5858	7150			142	
	70	3522	4604	4104	5204	4781	5945	5571	6832	6491	7879			154	
	75	3850	4999	4466	5654	5226	6462	6090	7428	7096	8568			165	
	80	4161	5371	4849	6078	5650	6949	6583	7990	7670	9219			175	
65	65	2900	3814	3379	4310	3937	4922	4587	5654	5345	6520			130	
	70	3235	4224	3769	4818	4391	5456	5117	6271	5962	7232			142	
	75	3556	4613	4143	5258	4827	5965	5625	6857	6554	7911			152	
	80	3863	4980	4501	5638	5244	6447	6110	7413	7119	8554			163	
70	70	2971	3074	3461	4382	4033	5007	4693	5755	5475	6639			130	
	75	3284	4255	3826	4816	4458	5505	5195	6330	6053	7303			141	
	80	3585	4618	4178	5229	4868	5980	5672	6878	6608	7937			151	
75	75	3033	3326	3534	4444	4118	5081	4738	5643	5591	6742			130	
	80	3328	4282	3878	4850	4518	5547	5264	6380	6134	7364			140	
80	80	3089	3970	3533	4498	4194	5146	4867	5919	5694	6832			130	

TABLE 13.--CURRENT AND PROJECTED TOTAL CUBIC FOOT VOLUME AND BASAL AREA PER ACRE
FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED BASAL AREA	
INITIAL AGE	FINAL AGE	50		60		70		80		90			
YEARS	I	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	SQ. FT.	
140 SO. FT. INITIAL BASAL AREA													
20	20	1463	2276	1704	2525	1986	2848	2314	3243	2696	3714	140	
	25	2277	3420	2654	3606	3092	4303	3603	4908	4198	5630	175	
	30	3059	4470	3564	4999	4153	5651	4839	6456	5639	7413	203	
	35	3777	5402	4401	6042	5128	6655	5975	7839	6961	9008	226	
	40	4424	6216	5154	6966	6006	7912	6999	9056	8154	10414	245	
	45	5003	6926	5629	7773	6792	8839	7913	10124	9220	11648	261	
50	5520	7545	6431	8479	7494	9650	8731	11060	10174	12731	274		
25	25	1921	2733	2122	3042	2472	3440	2881	3924	3357	4501	140	
	30	2539	3708	2959	4139	3447	4689	4017	5356	4680	6151	169	
	35	3219	4601	3751	5147	4371	5840	5093	6679	5934	7676	193	
	40	3847	5402	4482	6054	5223	6977	6085	7072	7090	9053	213	
	45	4418	6112	5148	6861	5996	7803	6989	8938	8144	10284	230	
	50	4936	6742	5751	7578	6701	8626	7808	9887	9099	11381	245	
55	5404	7300	6297	8215	7337	9358	8549	10732	9961	12359	258		
30	30	2108	3075	2398	3433	2861	3890	3334	4444	3885	5103	140	
	35	2744	3918	3188	4385	3726	4975	4241	5691	5058	6540	164	
	40	3345	4693	3898	5261	4542	5377	5292	6843	6166	7870	185	
	45	3902	5394	4547	6056	5298	6888	6173	7891	7192	9060	203	
	50	4414	6024	5143	6773	5392	7710	6962	8838	8136	10174	219	
	55	4892	6590	5688	7417	6628	8450	7723	9692	8999	11162	233	
60	5310	7097	6187	7997	7209	9116	8400	10461	9787	12053	245		
35	35	2339	3336	2726	3734	3176	4238	3701	4848	4312	5573	140	
	40	2909	4077	3390	4571	3949	5195	4602	5947	5362	6840	161	
	45	3447	4760	4015	5345	4673	6080	5452	6966	6352	8016	179	
	50	3947	5382	4599	6053	5359	6891	6244	7900	7275	9095	196	
	55	4410	5948	5139	6697	5988	7630	6377	8752	8129	10080	210	
	60	4838	6461	5637	7282	6568	8302	7652	9527	8916	10977	223	
65	5231	6927	6095	7813	7102	8913	8275	10233	9642	11795	235		
40	40	2530	3541	2948	3972	3434	4514	4002	5169	4663	5945	140	
	45	3044	4199	3547	4717	4132	5159	5584	7061	6149	7611	159	
	50	3530	4809	4113	5409	4792	6899	6302	7903	7159	8584	175	
	55	3984	5363	4642	6045	5409	6899	6392	8003	7343	9103	190	
	60	4407	5882	5135	6630	5964	7560	6972	8676	8123	9998	203	
	65	4900	6351	5593	7165	6517	8175	7533	9387	8848	10819	215	
70	5165	6781	6018	7656	7012	8740	8170	10039	9520	11574	226		
45	45	2688	3704	3133	4162	3650	4736	4253	5428	4955	6247	140	
	50	3156	4295	3678	4833	4285	5504	4993	6311	5818	7267	157	
	55	3599	4845	4194	5457	4886	6220	5694	7136	6634	8220	172	
	60	4015	5354	4679	6036	5451	6894	6352	7901	7401	9105	185	
	65	4405	5823	5132	6571	5980	7498	6966	8510	8119	9925	197	
	70	4769	6256	5556	7065	6474	8066	7543	9265	8769	10663	209	
75	5108	6654	5952	7520	6935	8590	8080	9871	9415	11384	219		
50	50	2823	3836	3289	4318	3832	4918	4465	5640	5202	6495	140	
	55	3251	4372	3789	4926	4414	5615	5143	6443	5993	7422	155	
	60	3658	4873	4262	5495	4967	6268	5787	7195	6743	8292	169	
	65	4042	5339	4710	6026	5487	6877	6394	7897	7450	9104	181	
	70	4403	5771	5130	6518	5977	7443	6964	8551	8115	9860	193	
	75	4741	6172	5524	6976	6437	7970	7500	9159	8739	10563	203	
80	5059	6543	5894	7401	6868	8459	8002	9724	9324	11218	213		
55	55	2937	3945	3422	4446	3988	5069	4646	5817	5414	6702	140	
	60	3333	4435	3883	5003	4525	5707	5272	6552	6143	7551	154	
	65	3709	4894	4322	5525	5035	6307	5867	7243	6836	8350	166	
	70	4065	5323	4736	6014	5519	6869	6430	7931	7492	9100	178	
	75	4401	5724	5128	6471	5375	7394	6962	8688	8111	9802	189	
	80	4717	6097	5497	6898	6405	7884	7462	9209	8695	10458	199	
60	60	3036	4036	3538	4554	4122	5196	4803	5966	5597	6876	140	
	65	3403	4486	3965	5066	4620	5784	5384	6643	6273	7659	153	
	70	3753	4910	4373	5549	5095	6338	5937	7282	6917	8398	164	
	75	4085	5308	4759	6003	5546	6859	6462	7884	7526	9094	175	
80	4399	5681	5126	6429	5972	7349	6959	8449	8108	9749	185		
65	65	3123	4112	3639	4645	4240	5303	4940	6092	5756	7025	140	
	70	3465	4529	4037	5119	4704	5848	5481	6720	6386	7751	152	
	75	3791	4923	4418	5568	5147	6363	5998	7315	6988	8438	162	
	80	4102	5294	4780	5991	5569	6850	6489	7876	7561	9088	173	
70	70	3199	4177	3727	4723	4343	5396	5060	6201	5896	7153	140	
	75	3519	4565	4100	5164	4778	5903	5567	6786	6486	7829	151	
	80	3826	4932	4457	5583	5194	6384	6051	7341	7051	8471	161	
75	75	3266	4232	3806	4790	4435	5476	5167	6296	6021	7264	140	
	80	3567	4595	4157	5203	4843	5950	5643	6843	6575	7897	150	
80	80	3327	4280	3876	4848	4516	5545	5262	6378	6132	7361	140	

TABLE 14.--CURRENT AND PROJECTED TOTAL CUBIC FOOT VOLUME AND BASAL AREA PER ACRE
FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED	
INITIAL AGE	FINAL AGE	50		60		70		80		90		BASAL AREA	
YEARS		I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	SO. FT.	
150 SQ. FT. INITIAL BASAL AREA													
20	20	1567	2441	1826	2706	2128	3051	2479	3474	2889	3979	150	
	25	2407	3614	2804	4022	3267	4547	3807	5187	4436	5950	185	
	30	3203	4682	3732	5224	4349	5918	5067	6760	5904	7762	213	
	35	3929	5620	4576	6286	5334	7131	6215	8155	7241	9371	235	
	40	4579	6436	5335	7211	6217	8191	7243	9375	8440	10780	253	
	45	5158	7143	6010	8016	7003	9115	8160	10440	9508	12011	269	
50	5674	7757	6611	8717	7703	9921	8976	11370	10458	13088	281		
25	25	1951	2929	2274	3260	2649	3686	3087	4205	3596	4823	150	
	30	2689	3928	3134	4364	3651	4967	4254	5674	4957	6515	179	
	35	3362	4835	3941	5408	4592	6136	5350	7017	6234	8064	202	
	40	4016	5641	4680	6322	5453	7182	6353	8220	7403	9453	222	
	45									8462	10687	239	
	50	5399	6380	5388	7056	6238	8188	8082	9288	9417	11782	253	
55	5576	7534	6497	8478	7571	9657	8821	11075	10278	12754	266		
30	30	2258	3296	2631	3679	3066	4168	3572	4762	4162	5469	150	
	35	2912	4159	3392	4653	3953	5280	4606	6038	5366	7030	174	
	40	3523	4944	4105	5542	4783	6296	5573	7207	6493		195	
	45	4086	5650	4761	6343	5547	7214	6463	8264	7531	9509	213	
	50	4600	6281	5360	7061	6246	8037	7277	9213	8479	10606	228	
	55	5069	6844	5907	7703	6882	8775	8019	10065	9343	11591	242	
60	5496	7348	6404	8279	7462	9436	8694	10830	10130	12477	253		
35	35	2506	3576	2920	4003	3403	4542	3965	5196	4620	5972	150	
	40	3090	4333	3600	4858	4195	5520	4988	6319	5596	7267	171	
	45	3637	5024	4237	5642	4937	6417	5752	7352	6703	8460	189	
	50	4142	5651	4827	6354	5624	7234	6553	8292	7635	9547	205	
	55	4608	6217	5369	6999	6256	7974	7290	9146	8494	10534	220	
	60	5036	6729	5868	7582	6637	8545	7367	9020	8283	11430	232	
65	5429	7191	6326	8111	7371	9252	8588	10622	10007	12243	243		
40	40	2710	3796	3158	4257	3660	4838	4289	5540	4995	6372	150	
	45	3237	4467	3771	5017	4394	5706	5120	6540	5365	7526	169	
	50	3730	5084	4346	5718	5064	6510	5900	7464	6875	8593	185	
	55	4189	5648	4881	6359	5687	7245	6627	8311	7721	9573	200	
	60	4615	6161	5377	6944	6265	7918	7300	9097	8506	10470	213	
	65	5009	6629	5836	7476	6800	8532	7923	9796	9231	11290	225	
70	5373	7056	6260	7966	7294	9093	8459	10444	9903	12042	235		
45	45	2880	3972	3356		3911	5087	4557	5817	5309	6695	150	
	50	3359	4573	3913	5168	4560	5835	5313	6717	6190	7734	167	
	55	3808	5130	4437	5777	5170	6504	5924	7552	7019	8689	182	
	60	4229	5641	4927	6359	5741	7252	6669	8323	7794	9591	195	
	65	4620	6111	5383	6895	6273	7867	7309	9033	8516	10412	207	
	70	4965	6542	5808	7307	6768	8434	7885	9687	9188	11169	218	
75	5324	6938	6203	7840	7226	8955	8422	10290	9813	11867	226		
50	50	3024	4114	3524	4629	4106	5272	4784	6045	5574	6961	150	
	55	3462	4659	4034	5248	4700	5981	5476	6862	6381	7905	165	
	60	3875	5165	4515	5623	5260	6641	6129	7623	7142	8785	179	
	65	4262	5633	4966	6357	5767	7254	6742	8330	7856	9602	191	
	70	4625	6065	5389	6850	6279	7822	7316	8985	8525	10360	202	
	75	4964	6465	5764	7307	6740	8347	7853	9592	9150	11063	213	
80	5262	6834	6154	7729	7171	8833	8355	10154	9735	11714	222		
55	55	3147	4230		3667	4767	4273	5434	4978	6235	5801	7183	150
	60	3550	4728		4137	5332	4820	6082	5616	6982	6544	8046	164
	65	3932	5192		4581	5860	5338	6688	6220	7681	7247	8855	176
	70	4291	5623		5000	6352	5826	7254	6788	8333	7909	9609	188
	75	4629	6024		5394	6810	6285	7760	7323	8941	8532	10313	198
	80	4947	6397		5764	7236	6716	8270	7825	9507	9117	10968	208
60	60	3253	4326		3791	4882	4417	5570	5146	6335	5996	7370	150
	65	3627	4785		4226	5402	4924	6167	5738	7083	6685	8165	163
	70	3982	5213		4639	5690	5405	6727	6298	7729	7339	8913	174
	75	4317	5613		5030	6346	5860	7251	6828	8334	7956	9613	185
	80	4633	5987		5398	6773	6290	7742	7328	8901	8539	10269	195
65	65	3346	4410		3899	4980	4543	5685	5293	6530	6167	7529	150
	70	3694	4833		4304	5461	5015	6238	5844	7168	6809	8266	162
	75	4025	5230		4690	5914	5465	6758	6367	7768	7419	8961	173
	80	4339	5603		5056	6340	5891	7248	6864	8333	7997	9614	183
70	70	3428	4479		3994	5064	4653	5784	5422	6647	6318	7667	150
	75	3753	4872		4373	5511	5096	6299	5937	7241	6918	8353	161
	80	4064	5243		4735	5934	5517	6785	6428	7801	7490	9002	171
75	75	3500	4539		4078	5136	4751	5870	5536	6749	6451	7786	150
	80	3806	4906		4434	5554	5167	6351	6020	7303	7015	8427	160
80	80	3564	4591		4153	5198	4839	5945	5638	6837	6570	7890	150

Current and Projected Merchantable Cubic Foot Volume (**V4I, V4O**) and
Total Basal Area Per Acre

TABLE 15.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V41, V40) AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL FINAL AGE AGE		SITE INDEX										PROJECTED BASAL AREA	
		50		60		70		80		90			
		I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.		
YEARS		I								I.E.	O.B.	I	SO. FT.
20 SQ. FT. INITIAL BASAL AREA													
20	20	68	103	144	211	215	309	281	394	346	478	20	
	25	289	422	450	639	563	607	711	961	847	1132	37	
	30	619	887	662	1194	1066	1442	1274	1692	1503	1968	56	
	35	1020	1435	1339	1822	1621	2154	1919	2507	2254	2906	74	
	40	1456	2021	1846	2477	2209	2896	2603	3354	3049	3881	93	
	45	1855	2610	2361	3129	2805	3634	3294	4199	3853	4853	110	
	50	2349	3183	2868	3761	3391	4349	3975	5018	4644	5796	126	
25	25	170	250	253	358	321	443	389	525	461	615	20	
	30	396	565	529	730	647	871	769	1017	905	1181	33	
	35	684	959	876	1187	1053	1393	1243	1618	1458	1873	48	
	40	1018	1406	1269	1696	1512	1975	1778	2285	2081	2642	63	
	45	1377	1879	1689	2230	2000	2583	2347	2983	2743	3447	78	
	50	1748	2360	2119	2770	2500	3198	2928	3689	3421	4261	93	
	55	2121	2835	2549	3302	2999	3804	3509	4385	4096	5063	106	
30	30	257	364	327	447	394	526	465	611	546	708	20	
	35	463	644	575	773	685	901	806	1043	944	1207	31	
	40	714	979	874	1161	1036	1345	1215	1555	1421	1797	43	
	45	998	1353	1209	1588	1427	1835	1672	2118	1954	2447	56	
	50	1303	1749	1566	2038	1844	2350	2158	2710	2515	3130	68	
	55	1619	2155	1935	2297	2273	2674	2658	3313	3102	3826	81	
	60	1939	2559	2306	2954	2705	3397	3161	3914	3688	4519	93	
35	35	313	429	370	502	446	580	523	671	611	776	20	
	40	502	680	603	793	710	915	831	1056	971	1221	29	
	45	724	973	866	1130	1019	1302	1192	1502	1392	1736	40	
	50	972	1295	1158	1499	1360	1725	1590	1989	1856	2298	50	
	55	1237	1636	1469	1887	1723	2170	2013	2501	2349	2889	61	
	60	1512	1995	1791	2284	2098	2625	2450	3025	2858	3494	72	
	65	1792	2337	2117	2684	2478	3083	2893	3552	3371	4102	82	
40	40	351	686	415	539	466	620	568	716	663	828	20	
	45	525	956	621	801	727	922	850	1063	991	1229	28	
	50	725	1099	657	1099	1003	1265	1172	1458	1367	1685	37	
	55	945	1239	1116	1424	1306	1637	1525	2337	1779	2180	46	
	60	1179	1538	1391	1754	1627	2027	1899	2739	2215	2700	56	
	65	1423	1845	1676	2115	1959	2429	2287	3126	2667	3231	65	
	70	1671	2156	1966	2468	2298	2834	2681	3266	3126	3773	74	
45	45	379	493	444	565	519	651	606	751	706	869	20	
	50	539	702	633	804	740	925	875	1067	1007	1234	27	
	55	721	936	847	1072	993	1232	1172	1421	1347	1643	35	
	60	919	1185	1030	1361	1262	1554	1472	1803	1717	2084	44	
	65	1129	1454	1326	1654	1549	1912	1807	2204	2107	2547	53	
	70	1348	1728	1582	1977	1847	2270	2155	2617	2512	3024	62	
	75	1571	2006	1843	2293	2152	2633	2510	3035	2926	3508	68	
50	50	400	511	468	586	546	675	637	779	742	902	20	
	55	550	703	643	805	751	926	875	1069	1020	1237	26	
	60	716	916	838	1049	979	1205	1141	1390	1330	1607	33	
	65	895	1144	1049	1308	1225	1503	1429	2095	1665	2005	41	
	70	1087	1363	1272	1581	1485	1817	1732	2467	2019	2422	58	
	75	1284	1629	1504	1852	1755	2140	2047	2366	2366	2852	46	
	80	1487	1880	1741	2148	2031	2468	2369	2846	2761	3290	63	
55	55	418	525	488	603	569	694	663	802	773	929	20	
	60	557	703	651	805	759	926	885	1070	1031	1238	26	
	65	711	897	830	1026	969	1181	1129	1363	1316	1577	32	
	70	876	1104	1024	1263	1194	1452	1392	1676	1623	1939	39	
	75	1050	1322	1227	1511	1432	1737	1669	2004	1945	2318	45	
	80	1230	1546	1438	1767	1678	2031	1956	2343	2280	2709	52	
60	60	433	537	505	616	588	711	686	822	799	952	20	
	65	563	701	657	803	766	926	892	1070	1040	1239	25	
	70	705	880	823	1007	960	1160	1119	1340	1304	1551	31	
	75	858	1070	1001	1224	1168	1409	1361	1627	1586	1883	37	
	80	1018	1259	1189	1451	1366	1669	1616	1927	1883	2230	43	
65	65	445	546	519	627	772	721	705	838	822	972	20	
	70	568	699	662	802	952	925	899	1069	1048	1239	25	
	75	700	864	817	991	1141	1110	1319	1293	1528	1528	30	
	80	842	1040	982	1191	1145	1371	1334	1584	1555	1834	36	
70	70	457	554	532	637	620	924	723	852	842	969	20	
	75	572	697	666	800	777	1125	905	1069	1055	1239	25	
	80	696	851	811	976	946	1102	1102	1301	1284	1508	29	
75	75	466	560	543	645	633	746	738	865	860	1003	20	
	80	575	694	670	799	781	922	910	1066	1061	1238	24	
80	80	475	566	554	653	645	755	752	875	876	1016	20	

TABLE 16.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V41, V40) AND
TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA	
		50		60		70		80		90			
		I.	O.B.	I.E.	O.B.	I.E.	O.B.	I.E.	O.B.	I.E.	O.B.		
30 SQ. FT. INITIAL BASAL AREA													
20	20	107	161	221	323	327	467	424	594	522	719	30	
	25	387	565	615	873	802	1110	920	1331	1169	1565	51	
	30	791	1134	1119	1553	1392	1884	1666	2215	1967	2579	73	
	35	1264	1782	1677	2287	2039	2713	2416	3160	2839	3665	94	
	40	1764	2452	2252	3027	2701	3546	3185	4110	3732	4755	113	
	45	2264	3108	2820	3743	3355	4352	3942	5031	4612	5814	131	
26	50	2749	3731	3358	4422	3985	5117	4673	5905	5461	6821	148	
	25	240	352	370	524	476	658	579	785	689	921	30	
	30	531	760	730	1011	900	1215	1074	1424	1266	1656	47	
	35	890	1252	1159	1576	1401	1859	1657	2162	1945	2505	64	
	40	1289	1787	1626	2179	1943	2544	2288	2946	2679	3409	81	
	45	1706	2335	2108	2790	2502	3238	2937	3741	3435	4323	98	
30	50	2125	2877	2589	3392	3059	3920	3584	4522	4188	5223	113	
	55	2537	3400	3060	3971	3603	4578	4217	5277	4924	6093	128	
	30	362	516	479	660	584	785	693	916	816	1063	30	
	35	631	884	803	1087	964	1274	1137	1479	1333	1711	44	
	40	946	1305	1175	1569	1398	1825	1644	2111	1924	2441	58	
	45	1289	1756	1576	2080	1856	2408	2168	2780	2558	3213	73	
36	50	1645	2219	1991	2600	2348	3002	2750	3462	3212	3939	87	
	55	2006	2660	2408	3117	2833	3591	3314	4139	3868	4779	100	
	60	2363	3130	2820	3622	3311	4166	3870	4800	4516	5542	113	
	35	450	625	558	749	664	872	781	1010	914	1168	30	
	40	696	954	851	1129	1007	1308	1182	1511	1382	1747	42	
	45	975	1321	1180	1549	1392	1790	1631	2065	1905	2386	54	
40	50	1275	1711	1532	1993	1803	2297	2110	2649	2463	3060	67	
	55	1587	2111	1896	2446	2227	2816	2604	3245	3039	3748	79	
	60	1904	2512	2264	2899	2655	3333	3102	3840	3620	4435	91	
	65	2219	2907	2630	3345	3081	3843	3598	4427	4197	5112	102	
	40	512	695	616	811	726	936	850	1081	993	1249	30	
	45	738	992	883	1153	1039	1329	1216	1533	1420	1771	40	
45	50	989	1318	1179	1526	1385	1757	1619	2026	1890	2340	51	
	55	1246	1662	1493	1918	1751	2206	2046	2543	2388	2937	62	
	60	1534	2015	1818	2319	2130	2666	2487	3071	2901	3547	73	
	65	1816	2370	2147	2722	2513	3126	2933	3602	3421	4160	83	
	70	2099	2721	2475	3120	2895	3583	3379	4127	3941	4767	94	
	45	558	742	662	856	776	985	906	1136	1058	1313	30	
50	50	767	1013	908	1167	1064	1342	1242	1548	1449	1788	39	
	55	995	1307	1176	1503	1377	1727	1608	1991	1876	2301	49	
	60	1236	1615	1459	1854	1708	2130	1994	2455	2326	2836	58	
	65	1487	1931	1752	2213	2049	2542	2392	2930	2709	3384	68	
	70	1741	2249	2049	2575	2396	2957	2736	3407	3260	3936	78	
	75	1997	2565	2347	2935	2743	3370	3200	3892	3731	4485	87	
55	50	594	776	698	890	817	1024	953	1181	1112	1365	30	
	55	787	1025	926	1175	1083	1351	1264	1558	1474	1801	38	
	60	996	1292	1172	1480	1370	1701	1599	1961	1864	2266	47	
	65	1217	1571	1430	1799	1672	2066	1950	2382	2274	2752	55	
	70	1445	1856	1697	2124	1983	2439	2313	2812	2696	3249	64	
	75	1677	2145	1968	2452	2299	2816	2681	3245	3125	3750	73	
60	80	1910	2433	2240	2780	2616	3192	3051	3678	3556	4251	81	
	55	622	801	729	918	852	1055	993	1218	1158	1408	30	
	60	802	1032	941	1181	1099	1357	1282	1565	1494	1810	37	
	65	996	1276	1168	1460	1363	1678	1590	1935	1854	2237	45	
	70	1199	1531	1405	1751	1641	2011	1913	2319	2231	2680	53	
	75	1408	1792	1650	2048	1926	2352	2246	2712	2618	3135	61	
65	80	1621	2055	1899	2348	2216	2697	2584	3109	3012	3594	69	
	60	646	821	755	940	881	1081	1028	1248	1198	1444	30	
	65	815	1035	953	1184	1112	1361	1297	1571	1512	1817	37	
	70	994	1261	1163	1442	1358	1657	1583	1912	1845	2211	44	
	75	1182	1495	1383	1709	1614	1964	1882	2265	2193	2619	51	
	80	1375	1735	1609	1982	1878	2270	2189	2627	2552	3037	58	
70	65	666	837	770	959	907	1103	1057	1274	1232	1474	30	
	70	824	1037	963	1186	1123	1364	1310	1575	1526	1822	36	
	75	992	1246	1159	1425	1352	1639	1577	1891	1837	2167	43	
	80	1167	1463	1364	1672	1591	1923	1854	2218	2161	2566	49	
75	70	663	851	797	974	930	1122	1083	1296	1263	1501	30	
	75	832	1037	972	1187	1133	1366	1321	1578	1539	1826	36	
	80	990	1232	1156	1410	1348	1622	1571	1873	1831	2167	42	
80	75	698	862	814	988	949	1138	1107	1315	1289	1523	30	
	80	839	1037	979	1187	1142	1367	1331	1580	1551	1829	35	
60	80	712	871	830	999	967	1152	1127	1332	1313	1543	30	

TABLE 17.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V41, V40) AND
TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA	
		50		60		70		80		90			
		I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.		
YEARS		I				I		I		I		I	50. FT.
40 SO. FT. INITIAL BASAL AREA													
20	20	147	219	299	435	439	626	568	794	697	960	40	
	25	479	698	769	1091	1006	1357	1232	1673	1470	1968	64	
	30	944	1353	1348	1872	1682	2279	2016	2682	2381	3124	89	
	35	1475	2081	1970	2699	2399	3196	2846	3725	3345	4320	110	
	40	2023	2814	2594	3491	3116	4094	3676	4746	4308	5493	131	
	45	2561	3518	3200	4251	3810	4946	4478	5718	5240	6609	149	
50	3074	4176	3774	4961	4469	5743	5241	6628	6126	7655	166		
25	25	310	454	466	690	631	873	770	1045	917	1227	40	
	30	658	942	919	1275	1139	1541	1362	1809	1607	2105	59	
	35	1075	1514	1415	1928	1716	2281	2032	2655	2387	3078	79	
	40	1527	2120	1939	2603	2322	3045	2736	3528	3206	4081	97	
	45	1988	2725	2467	3271	2932	3800	3444	4391	4029	5075	115	
	50	2442	3311	2985	3915	3529	4528	4137	5225	4835	6035	131	
55	2881	3867	3483	4527	4105	5220	4805	6018	5611	6948	146		
30	30	463	663	630	870	773	1042	921	1220	1085	1418	40	
	35	789	1107	1019	1383	1228	1628	1452	1892	1703	2192	56	
	40	1156	1600	1451	1942	1731	2264	2037	2621	2386	3032	72	
	45	1546	2113	1903	2517	2257	2919	2649	3371	3097	3896	88	
	50	1943	2626	2361	3090	2788	3570	3266	4118	3816	4756	103	
	55	2336	3128	2813	3648	3312	4205	3875	4846	4525	5596	117	
60	2719	3609	3253	4185	3822	4815	4468	5547	5214	6404	131		
35	35	581	812	735	993	880	1162	1038	1348	1216	1560	40	
	40	878	1210	1086	1448	1291	1683	1517	1947	1776	2251	54	
	45	1204	1639	1469	1936	1738	2241	2038	2587	2382	2990	68	
	50	1547	2084	1868	2438	2202	2813	2579	3245	3012	3749	81	
	55	1895	2529	2272	2940	2672	3386	3125	3902	3648	4506	95	
	60	2242	2967	2674	3432	3139	3947	3668	4548	4230	5251	107	
65	2583	3392	3067	3909	3595	4492	4200	5174	4899	5974	119		
40	40	660	914	814	1080	964	1251	1131	1445	1322	1670	40	
	45	939	1271	1135	1439	1339	1720	1568	1984	1832	2293	52	
	50	1232	1653	1479	1923	1740	2216	2036	2556	2377	2952	64	
	55	1538	2045	1836	2368	2156	2725	2521	3141	2942	3627	76	
	60	1849	2439	2198	2814	2578	3235	3012	3727	3514	4304	88	
	65	2160	2828	2559	3254	2998	3738	3501	4306	4083	4972	100	
70	2467	3209	2915	3683	3411	4229	3982	4871	4644	5625	110		
45	45	733	985	877	1144	1031	1318	1206	1521	1409	1758	40	
	50	982	1309	1171	1515	1375	1745	1608	2012	1877	2324	51	
	55	1249	1652	1484	1906	1740	2192	2033	2527	2373	2919	62	
	60	1525	2004	1807	2306	2117	2550	2473	3054	2885	3527	72	
	65	1807	2357	2135	2707	2499	3110	2918	3583	3403	4138	83	
	70	2068	2708	2463	3105	2881	3565	3363	4107	3921	4743	93	
75	2357	3052	2707	3495	3259	4012	3802	4621	4433	5337	103		
50	50	783	1036	927	1193	1087	1372	1270	1582	1481	1828	40	
	55	1014	1333	1199	1533	1405	1763	1640	2032	1913	2347	50	
	60	1259	1645	1486	1888	1739	2170	2031	2501	2368	2889	59	
	65	1511	1953	1782	2251	2084	2586	2432	2980	2837	3442	69	
	70	1768	2284	2081	2616	2433	3004	2839	3461	3311	3998	79	
	75	2026	2603	2382	2979	2783	3420	3247	3940	3786	4551	88	
80	2282	2917	2680	3336	3130	3829	3651	4411	4257	5096	97		
55	55	823	1074	969	1232	1134	1416	1323	1633	1543	1887	40	
	60	1038	1348	1222	1545	1429	1776	1667	2047	1944	2365	49	
	65	1264	1634	1487	1871	1738	2149	2029	2477	2364	2863	58	
	70	1497	1926	1759	2204	2055	2531	2398	2916	2796	3370	66	
	75	1734	2219	2035	2538	2377	2914	2773	3358	3233	3880	75	
	80	1971	2512	2312	2871	2700	3296	3149	3798	3671	4389	84	
60	60	856	1104	1005	1263	1174	1452	1369	1675	1596	1936	40	
	65	1057	1358	1241	1554	1449	1786	1690	2059	1971	2380	48	
	70	1268	1622	1487	1855	1736	2131	2025	2456	2361	2839	56	
	75	1483	1891	1739	2161	2030	2482	2368	2862	2760	3307	64	
	80	1703	2161	1935	2470	2329	2836	2716	3269	3166	3778	72	
	65	65	884	1127	1035	1290	1208	1482	1409	1710	1643	1977	40
70		1073	1365	1256	1560	1466	1793	1710	2068	1993	2391	47	
75		1269	1610	1486	1840	1734	2114	2022	2437	2357	2818	55	
80		1471	1859	1721	2124	2009	2440	2342	2813	2730	3252	62	
70	70	808	1147	1062	1312	1239	1508	1444	1740	1683	2013	40	
	75	1086	1369	1270	1565	1481	1799	1727	2075	2013	2400	47	
	80	1270	1597	1485	1826	1733	2098	2020	2420	2354	2799	54	
75	75	929										40	
	80	1097	1163 1372	1085 1281	1330 1568	1265 1494	1530 1803	1475 1742	2081 1766	2080 1719	2644 2400	46	
80	80	947	1177	1105	1346	1289	1549	1502	1789	1751	2071	40	

TABLE 1S.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V4I, V4O) AND
TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA
		50		60		70		80		90		
		I.B.	O.B.	I.B.	O.S.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	
YEARS												
50 SQ. FT. INITIAL BASAL AREA												
20	20	186	278	376	547	551	784	711	994	873	1201	50
	25	566	825	915	1298	1200	1662	1471	1999	1756	2352	77
	30	1084	1554	1559	2165	1948	2642	2337	3111	2762	3625	102
	35	1553	2348	2232	3049	2722	3629	3231	4231	3799	4908	126
	40	2251	3133	2895	3899	3481	4576	4108	5307	4816	6142	146
	45	2818	3875	3529	4692	4205	5462	4944	6316	5796	7300	165
25	50	3353	4558	4124	5423	4885	6280	5730	7248	6698	8372	181
	25	380	555	603	955	786	1087	960	1304	1145	1532	50
	30	779	1116	1100	1527	1368	1852	1638	2177	1933	2535	72
	35	1247	1758	1653	2254	2009	2673	2381	3114	2798	3610	92
	40	1742	2422	2224	2968	2667	3500	3144	4057	3684	4694	112
	45	2239	3073	2768	3701	3317	4302	3897	4973	4559	5747	130
30	50	2721	3693	3333	4377	3944	5054	4624	5844	5405	6750	146
	55	3181	4274	3852	5010	4542	5779	5317	6663	6210	7693	161
	30	564	807	779	1079	962	1300	1148	1524	1354	1772	50
	35	939	1321	1226	1668	1483	1970	1755	2291	2061	2655	68
	40	1352	1875	1709	2291	2043	2677	2406	3100	2819	3596	86
	45	1781	2439	2203	2919	2616	3388	3072	3914	3593	4523	102
35	50	2210	2933	2695	3532	3165	4093	3733	4711	4361	5441	118
	55	2630	3526	3174	4121	3739	4751	4376	5477	5109	6324	133
	60	3033	4031	3534	4580	4271	5386	4994	6205	5829	7164	146
	35	710	996	911	1235	1096	1451	1295	1685	1519	1952	50
	40	1052	1454	1314	1757	1566	2047	1843	2368	2157	2739	65
	45	1419	1938	1742	2302	2064	2667	2422	3080	2832	3560	81
40	50	1797	2427	2170	2650	2572	3292	3013	3797	3520	4385	95
	55	2175	2909	2616	3389	3078	3905	3601	4501	4204	5198	109
	60	2546	3376	3043	3911	3573	4499	4177	5184	4875	5985	122
	65	2906	3823	3456	4411	4053	5069	4735	5839	5524	6741	135
	40	820	1129	1012	1347	1201	1554	1411	1809	1651	2091	50
	45	1132	1540	1378	1815	1629	2099	1910	2423	2232	2800	63
45	50	1462	1968	1764	2299	2078	2653	2432	3059	2841	3533	77
	55	1800	2400	2156	2787	2534	3209	2964	3699	3460	4271	90
	60	2139	2827	2549	3268	2990	3758	3494	4330	4077	4999	102
	65	2471	3244	2933	3736	3438	4293	4015	4945	4694	5709	114
	70	2796	3645	3309	4188	3974	4809	4523	5539	5275	6395	126
	45	904	1223	1091	1430	1296	1651	1506	1906	1760	2202	50
50	50	1190	1595	1427	1954	1679	2137	1954	2464	2293	2846	62
	55	1490	1979	1777	2291	2087	2636	2439	3038	2847	3509	74
	60	1796	2367	2133	2729	2501	3138	2922	3615	3409	4175	86
	65	2102	2751	2489	3164	2916	3634	3405	4187	3971	4835	97
	70	2405	3127	2841	3588	3324	4120	3890	4746	4526	5481	108
	75	2702	3491	3185	4000	3724	4592	4346	5289	5068	6109	118
55	50	969	1292	1155	1494	1356	1720	1586	1984	1851	2291	50
	55	1234	1631	1465	1882	1719	2164	2008	2495	2343	2881	61
	60	1508	1981	1787	2279	2093	2619	2444	3018	2852	3486	72
	65	1788	2332	2113	2679	2473	3076	2887	3544	3367	4093	82
	70	2068	2681	2439	3074	2853	3529	3329	4066	3882	4696	92
	75	2346	3024	2762	3462	3229	3974	3767	4579	4392	5299	102
60	80	2619	3359	3079	3841	3598	4408	4197	5078	4993	5865	112
	55	1022	1343	1208	1545	1415	1776	1653	2048	1928	2365	50
	60	1267	1656	1496	1902	1751	2185	2045	2519	2365	2909	60
	65	1521	1976	1793	2266	2038	2603	2448	2999	2955	3465	70
	70	1779	2298	2094	2632	2448	3022	2857	3482	3331	4023	79
	75	2037	2618	2395	2996	2799	3439	3265	3962	3807	4577	89
65	80	2294	2933	2694	3353	3147	3849	3670	4435	4279	5123	98
	60	1064	1384	1253	1586	1466	1823	1710	2101	1995	2429	50
	65	1294	1673	1522	1917	1779	2202	2076	2538	2421	2932	59
	70	1530	1969	1798	2253	2101	2588	2451	2982	2858	3445	68
	75	1769	2266	2077	2591	2426	2975	2830	3429	3299	3961	77
	80	2009	2561	2357	2927	2752	3360	3210	3973	3742	4475	86
70	65	1101	1416	1292	1620	1509	1861	1760	2146	2053	2480	50
	70	1316	1686	1544	1928	1803	2214	2103	2553	2452	2950	58
	75	1536	1960	1801	2241	2103	2573	2453	2966	2860	3428	67
	80	1759	2235	2062	2554	2407	2933	2807	3381	3272	3907	75
	70	1131	1442	1325	1649	1547	1894	1804	2184	2103	2525	50
	75	1334	1694	1562	1936	1823	2225	2126	2565	2479	2965	58
75	80	1541	1950	1804	2228	2105	2559	2455	2951	2961	3411	65
	75	1158	1464	1355	1673	1581	1923	1843	2218	2148	2564	50
	80	1349	1700	1578	1943	1841	2233	2147	2575	2502	2978	57
	80	1181	1482	1381	1694	1611	1947	1878	2247	2188	2599	50

TABLE 19.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V41, V40) AND
TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX												PROJECTED					
INITIAL	FINAL	60				70				80				90				BASAL AREA	
AGE	AGE	1.9.		O.B.	I.E.	O.B.	1.9.		O.B.	I.E.	O.B.	1.9.		O.B.	I.E.	O.B.	SO. FT.		
YEARS																			
60 SQ. FT. INITIAL BASAL AREA																			
20	20	226															60		
	25	650	947 336	1655 454	1497 659	1387 663	1321 943	1700 855	2311 1194	2031 1048	2721 1442						89		
	30																116		
	35	1215					2197										139		
	40	1836 25	1742	1755	2439 339	3019	2501 406	2637 354	406 352	4215 317	4093 349						160		
	45	2456	2592	2472 58	4269	3812	5012	4499	5614	5274	6730						179		
25	50	3049	3483	3884	5096	4559	5923	5361	6850	6274	7919						195		
	55	3600	4897	4433	5932	5253	6755	6162	7799	7204	9007								
	25	449	655	719	1020	940	1302	1151	1563	1373	1939						60		
	30	9 1283	1275	1770	1589	2153	1904	2533	2249	2951							83		
	35	1408	1997	1877	2562	2285	3044	2710	3547	3185	4113						105		
	40	1942	2701	2497	3345	2993	3922	3522	4547	4128	5262						125		
30	45	2468	3390	3081	4093	3558	4761	4311	5504	5045	6361						144		
	50	2973	4038	3648	4793	4319	5548	5065	6403	5920	7396						160		
	55	3449	4538	4182	5443	4923	6280	5776	7241	6746	9360						175		
	30	864	951	928	1287	1151	1557	1376	1827	1624	2127						60		
	35	1084	1527	1427	1944	1731	2301	2050	2679	2408	3105						79		
	40	1538	2136	1954	2623	2340	3068	2757	3555	3231	4113						98		
35	45	2001	2744	2484	3294	2952	3826	3468	4422	4057	5110						116		
	50	2457	3331	3003	3940	3551	4557	4163	5258	4965	6073						132		
	55	2897	3889	3503	4552	4128	5250	4832	6052	5643	6999						147		
	60	3317	4412	3979	5128	4678	5902	5470	6900	6385	7851						160		
	35	939	1178	1087	1477	1312	1740	1551	2023	1821	2344						60		
	40	1221	1691	1536	2057	1834	2401	2159	2779	2529	3215						77		
40	45	1624	2222	2003	2651	2377	3075	2790	3552	3262	4105						93		
	50	2032	2749	2473	3239	2821	3741	3422	4316	3999	4995						108		
	55	2434	3261	2934	3807	3455	4388	4043	5058	4721	5940						123		
	60	2825	3751	3381	4351	3973	5007	4645	5769	5421	6660						136		
	65	3200	4216	3811	4868	4470	5595	5223	6444	6094	7440						149		
	40	971	1341	1209	1614	1439	1978	1691	2172	1980	2512						60		
45	45	1320	1900	1616	2133	1913	2470	2244	2952	2624	3296						75		
	50	1682	2269	2036	2661	2402	3071	2813	3543	3286	4092						89		
	55	2047	2735	2459	3183	2892	3667	3393	4227	3949	4991						103		
	60	2407	3169	2974	3692	3375	4247	3944	4993	4603	5650						116		
	65	2759	3627	3279	4182	3845	4806	4491	5536	5239	6391						128		
	70	3099	4045	3670	4651	4298	5341	5019	6151	5954	7102						139		
50	45	1074	1458	1304	1716		1984	1806	2290	2110	2646						60		
	50	1393	1873	1678	2186	1976	2521	2313	2907	2701	3359						73		
	55	1721	2293	2060	2661	2421	3064	2831	3531	3304	4078						86		
	60	2052	2711	2443	3132	2866	3602	3350	4149	3908	4791						99		
	65	2379	3120	2822	3592	3307	4128	3962	4754	4505	5490						110		
	70	2699	3516	3192	4039	3737	4637	4362	5341	5088	6167						121		
55	75	3010	3996	3551	4467	4154	5127	4849	5905	5653	6819						132		
	50	1154	1545	1392	1795	1626	2069	1901	2385	2220	2754						60		
	55	1448	1923	1726	2224	2027	2559	2369	2949	2764	3406						72		
	60	1749	2304	2077	2656	2435	3054	2845	3519	3319	4063						83		
	65	2051	2693	2428	3095	2844	3544	3321	4083	3873	4715						94		
	70	2351	3055	2776	3505	3249	4025	3792	4636	4422	5354						105		
60	75	2645	3416	3117	3914	3645	4493	4253	5175	4960	5976						116		
	80	2931	3766	3449	4309	4031	4945	4703	5696	5483	6579						125		
	55	1218	1611	1447	1858	1697	2136	1992	2462	2313	2944						60		
	60	1491	1957	1766	2252	2069	2588	2416	2992	2818	3444						71		
	65	1769	2307	2090	2649	2446	3043	2856	3505	3331	4048						81		
	70	2048	2654	2414	3042	2924	3493	3296	4024	3843	4648						91		
65	75	2324	2995	2736	3429	3199	3936	3732	4535	4351	5239						101		
	80	2596	3329	3052	3906	3566	4369	4160	5033	4850	5813						111		
	60	1271	1662	1501	1909	1757	2193	2052	2527	2393	2919						60		
	65	1526	1992	1799	2273	2104	2611	2456	3009	2864	3476						70		
	70	1784	2305	2100	2640	2455	3031	2865	3493	3340	4035						79		
	75	2042	2625	2401	3004	2906	3449	3274	3973	3917	4590						89		
70	80	2299	2840	2700	3362	3155	3859	3690	4446	4290	5136						98		
	65	1316	1703	1548	1950	1810	2240	2112	2592	2463	2993						60		
	70	1554	2001	1826	2290	2134	2630	2490	3030	2903	3501						69		
	75	1795	2300	2109	2630	2462	3020	2872	3490	3349	4021						78		
	80	2037	2597	2390	2969	2791	3409	3255	3927	3794	4539						87		
	70	1354	1736	1599	1996	1956	2281	2165	2629	2524	3038						60		
75	75	1579	2014	1850	2303	2161	2645	2520	3049	2939	3523						68		
	80	1804	2294	2114	2621	2469	3009	2879	3469	3356	4009						77		
	75	1386	1763	1624	2015	19 1	2315	2211	2669	2577	3085						60		
	80	15 4	2024	1871	2313	2194	2657	2547	3063	2969	3540						68		
	90	1415	1 7	1656	2041	1932	2345	2253	2704	2626	3126						60		

TABLE 20.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V41, V40) AND
TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA SQ. FT.
		50		60		70		80		90		
		I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	
70 SO. FT. INITIAL BASAL AREA												
20	20	265	394	531	771	775	1101	998	1394	1223	1683	70
	25	731	1064	1191	1689	1567	2171	1922	2613	2297	3077	101
	30	1339	1920	1940	2698	2433	3301	2921	3891	3454	4536	128
	35	1997	2820	2696	3686	3294	4355	4039	5128	4602	5550	152
	40	2645	3686	3419	4607	4115	5413	4858	6281	5696	7270	173
	45	3258	4483	4092	5446	4660	6344	5740	7337	6718	8480	191
25	50	3823	5203	4713	6202	5585	7186	6554	8295	7661	9581	207
	25	518	756	836	1185	1095	1516	1341	1822	1601	2144	70
	30	1009	1446	1445	2007	1804	2446	2164	2879	2556	3355	95
	35	1562	2204	2021	2856	2548	3396	3024	3959	3555	4593	117
	40	2129	2963	2735	3680	3286	4318	3877	5007	4544	5795	138
	45	2681	3685	3354	4457	3895	5187	4696	5997	5495	6932	157
30	50	3204	4355	3938	5177	4664	5994	5476	6918	6291	7991	173
	55	3694	4970	4484	5838	5290	6737	6194	7768	7235	8969	188
	30	764	1094	1078	1495	1339	1813	1603	2131	1893	2481	70
	35	1226	1726	1624	2214	1972	2625	2338	3057	2747	3545	91
	40	1716	2385	2189	2941	2624	3444	3094	3992	3625	4619	110
	45	2208	3031	2749	3548	3270	4241	3842	4902	4495	5665	128
35	50	2687	3647	3291	4321	3994	4999	4566	5769	5336	6663	144
	55	3145	4225	3808	4952	4489	5712	5255	6585	6138	7603	159
	60	3577	4762	4296	5539	5051	6377	5908	7347	6896	8482	173
	35	965	1358	1262	1717	1527	2029	1808	2360	2123	2735	70
	40	1386	1922	1753	2351	2097	2747	2470	3182	2893	3681	88
	45	1821	2494	2254	2987	2677	3467	3144	4006	3677	4630	105
40	50	2255	3055	2751	3606	3252	4169	3811	4810	4453	5556	121
	55	2678	3592	3233	4200	3810	4842	4459	5582	5207	6445	135
	60	3065	4101	3697	4752	4346	5481	5081	6314	5931	7290	149
	65	3472	4579	4139	5291	4856	6082	5674	7005	6621	8087	161
	40	1121	1551	1405	1879	1676	2191	1972	2536	2308	2933	70
	45	1503	2054	1849	2245	2192	2834	2573	3273	3008	3783	86
45	50	1894	2559	2300	3010	2716	3476	3181	4010	3716	4632	101
	55	2262	3054	2747	3562	3231	4104	3783	4731	4417	5463	115
	60	2661	3531	3183	4093	3739	4709	4371	5426	5101	6264	128
	65	3028	3985	3603	4600	4226	5287	4937	6090	5760	7031	140
	70	3380	4417	4007	5081	4693	5836	5481	6721	6393	7759	152
	45	1242	1692	1517	2001	1795	2316	2105	2674	2461	3090	70
50	50	1591	2145	1924	2511	2268	2898	2656	3343	3102	3861	84
	55	1945	2597	2334	3028	2745	3478	3210	4009	3748	4629	97
	60	2297	3041	2740	3518	3217	4046	3759	4662	4487	5363	110
	65	2641	3470	3137	3999	3678	4596	4296	5294	5012	6112	122
	70	2975	3932	3523	4462	4125	5124	4816	5901	5617	6813	134
	75	3297	4274	3894	4903	4556	5628	5317	6481	6201	7483	144
55	50	1337	1797	1609	2095	1894	2416	2217	2706	2589	3218	70
	55	1658	2208	1983	2560	2330	2947	2724	3397	3180	3923	83
	60	1982	2618	2359	3023	2767	3476	3231	4005	3773	4624	95
	65	2304	3020	2732	3476	3201	3994	3736	4601	4361	5313	106
	70	2619	3411	3097	3917	3626	4458	4233	5180	4936	5982	117
	75	2927	3787	3453	4341	4039	4983	4713	5739	5496	6628	128
60	80	3224	4148	3797	4748	4438	5449	5178	6276	6038	7248	138
	55	1414	1877	1685	2170	1978	2496	2312	2877	2696	3323	70
	60	1711	2253	2031	2597	2381	2985	2782	3435	3245	3972	81
	65	2010	2628	2379	3021	2786	3471	3253	3998	3794	4617	92
	70	2307	2997	2723	3438	3187	3948	3720	4547	4338	5251	103
	75	2598	3355	3062	3844	3580	4412	4178	5082	4871	5869	113
65	80	2883	3702	3392	4236	3964	4862	4625	5600	5392	6468	123
	60	1477	1939	1749	2230	2049	2563	2393	2953	2791	3411	70
	65	1754	2287	2072	2625	2425	3015	2831	3474	3301	4012	80
	70	2031	2632	2395	3017	2801	3465	3269	3991	3812	4610	91
	75	2307	2972	2715	3403	3174	3906	3703	4500	4318	5197	101
	80	2578	3304	3030	3779	3540	4337	4130	4996	4815	5771	110
70	65	1530	1988	1804	2280	2110	2619	2463	3018	2872	3486	70
	70	1789	2632	2106	2647	2462	3040	2873	3502	3350	4046	80
	75	2048	2948	2408	3012	2814	3457	3282	3983	3827	4602	89
	80	2305	2707	2707	3370	3162	3868	3689	4457	4300	5149	98
75	70	1575	2029	1852	2322	2164	2667	2525	3073	2944	3550	70
	75	1818	2330	2135	2665	2494	3060	2910	3526	3392	4074	79
	80	2061	2629	2418	3005	2824	3450	3291	3976	3840	4593	88
	75	1843	2345	1888	2358	2188	2806	2642	3228	3077	3606	70
80	80	1648	2090	1930	2388	2253	2743	2628	3162	3063	3654	70

TABLE 21.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V41,V40) AM
TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA
		50		60		70		80		90		
		I.B.	O.B.	I.B.	O.B.	I.E.	O.B.	I.B.	O.B.	I.E.	O.B.	
YEARS		80 SQ. FT. INITIAL BASAL AREA										
20	20	305	452	609	683	886	1260	1142	1593	1399	1923	80
	25	809	1178	1323	1876	1742	2414	2138	2907	2555	3424	112
	30	1457	2069	2117	2945	3057	3606	4229	4253	4775	4958	140
	35	2148	3034	2907	3975	4388	4742	5193	5534	4956	6422	164
	40	2821	3932	3652	4922		5787		6715	6089	7112	185
	45	3451	4750	4340	5777	5178	6731	6090	7786	7128	9000	203
50	4028	5493	4969	6542	5892	7581	6913	8751	8081	10108	219	
25	25	588	857	952	1350	1250	1731	1531	2081	1829	2449	80
	30	1119	1604	1610	2238	2014	2732	2417	3217	2856	3750	106
	35	1710	2413	2296	3137	2801	3735	3326	4355	3910	5053	129
	40	2306	3211	2859	3938	3570	4693	4213	5444	4939	6300	150
	45	2880	3961	3609	4799	4301	5587	5057	6460	5817	7467	169
	50	3420	4650	4207	5533	4985	6408	5847	7397	6835	8544	185
55	3920	5277	4762	6203	5620	7160	6581	8255	7687	9532	200	
30	30	863	1237	1227	1703	1528	2070	1830	2434	2162	2835	80
	35	1364	1924	1816	2478	2209	2942	2620	3428	3079	3975	102
	40	1887	2625	2415	3248	2899	3807	3418	4413	4006	5107	122
	45	2406	3304	3002	3935	3573	4636	4199	5359	4913	6194	140
	50	2905	3945	3563	4681	4217	5417	4946	6252	5780	7221	156
	55	3377	4540	4093	5326	4827	6145	5552	7034	6601	8180	171
60	3819	5099	4590	5922	5359	6819	6315	7857	7372	9070	185	
35	35	1091	1537	1437	1958	1743	2317	2064	2697	2425	3127	80
	40	1547	2149	1966	2639	2354	3087	2774	3577	3250	4139	99
	45	2011	2758	2497	3312	2988	3847	3487	4446	4079	5138	116
	50	2469	3347	3018	3959	3589	4579	4183	5283	4889	6103	132
	55	2910	3906	3518	4572	4146	5273	4854	6079	5668	7019	147
	60	3330	4430	3995	5149	4697	5926	5492	6828	6411	7883	161
65	3727	4918	4446	5687	5217	6538	6097	7530	7114	8692	174	
40	40	1270	1760	1600	2145	1912	2504	2252	2899	2637	3354	80
	45	1683	2303	2078	2751	2466	3192	2896	3688	3386	4262	96
	50	2099	2841	2556	3349	3020	3870	3539	4465	4135	5157	112
	55	2538	3351	3024	3925	3562	4525	4168	5216	4867	6023	126
	60	2904	3857	3477	4475	4066	5150	4777	5934	5575	6850	140
	65	3283	4326	3910	4996	4587	5743	5360	6614	6253	7636	153
70	3644	4767	4323	5486	5065	6301	5915	7256	6899	8377	164	
45	45	1410	1924	1730	2285	2050	2648	2405	3058	2812	3534	80
	50	1786	2412	2165	2832	2556	3270	2994	3772	3497	4357	95
	55	2162	2892	2600	3369	3060	3882	3590	4475	4180	5167	109
	60	2533	3356	3025	3850	3554	4475	4155	5156	4849	5953	122
	65	2932	3805	3439	4389	4033	5044	4712	5810	5497	6707	134
	70	3238	4229	3837	4864	4494	5586	5247	6433	6121	7427	146
75	3569	4631	4217	5314	4935	6100	5761	7025	6718	8111	156	
50	50	1520	2047	1835	2395	2163	2763	2533	3186	2958	3680	80
	55	1865	2469	2236	2892	2629	3330	3075	3838	3589	4432	93
	60	2209	2924	2634	3391	3092	3888	3614	4479	4217	5172	106
	65	2548	3346	3025	3855	3546	4430	4142	5102	4832	5891	118
	70	2877	3752	3406	4312	3988	4951	4656	5702	5430	6584	129
	75	3195	4141	3773	4749	4414	5451	5152	6277	6008	7248	140
80	3502	4511	4126	5165	4824	5927	5629	6826	6563	7882	150	
55	55	1609	2141	1923	2481	2259	2856	2641	3292	3082	3802	80
	60	1928	2545	2293	2937	2690	3377	3143	3891	3667	4493	92
	65	2245	2942	2661	3386	3118	3890	3641	4481	4247	5174	104
	70	2557	3329	3023	3822	3538	4388	4131	5054	4817	5837	115
	75	2862	3702	3375	4243	3948	4870	4607	5609	5372	6477	125
	80	3157	4050	3717	4647	4345	5333	5069	6142	5910	7094	135
60	60	1682	2215	1997	2552	2340	2933	2734	3380	3169	3903	80
	65	1979	2587	2341	2973	2742	3415	3201	3934	3734	4543	91
	70	2273	2952	2683	3387	3140	3889	3665	4480	4274	5173	102
	75	2563	3309	3020	3790	3531	4351	4120	5011	4804	5788	112
80	2846	3654	3348	4181	3913	4798	4565	5527	5322	6383	122	
65	65	1744	2273	2060	2610	2411	2998	2814	3454	3282	3983	80
	70	2020	2618	2382	3001	2786	3446	3251	3970	3792	4585	90
	75	2295	2957	2702	3366	3153	3886	3685	4477	4296	5171	100
	80	2566	3268	3016	3761	3524	4317	4111	4973	4793	5744	110
70	70	1796	2321	2114	2659	2472	3053	2885	3517	3364	4063	80
	75	2076	2642	2417	3024	2825	3471	3295	3999	3842	4620	89
	80	2313	2959	2717	3383	3174	3883	3702	4474	4316	5168	99
75	75	1841	2360	2162	2700	2526	3100	2947	3572	3436	4127	80
	80	2086	2661	2448	3042	2858	3492	3334	4024	3887	4649	89
80	80	1880	2393	2205	2735	2574	3140	3002	3619	3500	4182	80

TABLE 22. --CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V+1, V40) AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED BASAL AREA	
INITIAL AGE	FINAL AGE	50		60		70		80		90		SO. FT.	
YEARS		I	I. E.	O. B.	I. E.	O. B.	I. E.	O. B.	I. B.	O. B.	I. B.	O. B.	
90 SQ. FT. INITIAL BASAL AREA													
20	20	344	511	686	995	998	1418	1285	1793	1574	2164		90
	25	886	1290	1451	2059	1913	2651	2349	3194	2807	3762		123
	30	1570	2251	2287	3182	2872	3899	3452	4599	4082	5363		151
	35	2291	3236	3106	4249	3799	5072	4515	5919	5311	6869		176
	40	2986	4163	3871	5219	4683	6137	5507	7122	6458	8245		196
	45	3631	5000	4571	6086	5455	7093	6417	8205	7511	9485		214
25	50	4218	5743	5207	6357	6175	7947	7246	9174	8471	10597		229
	25	657	958	1068	1515	1404	1945	1722	2340	2057	2755		90
	30	1227	1759	1773	2404	2220	3011	2665	3548	3150	4136		117
	35	1852	2615	2494	3409	3043	4062	3616	4737	4252	5496		141
	40	2475	3447	3193	4301	3841	5051	4534	5880	5316	6782		162
	45	3053	4221	3850	5122	4590	5964	5398	6898	6317	7973		180
30	50	3622	4927	4460	5868	5286	6798	6201	7847	7249	9063		196
	55	4132	5563	5023	6544	5928	7555	6943	8711	8110	10057		211
	30	962	1379	1375	1910	1716	2326	2058	2738	2431	3190		90
	35	1500	2116	2004	2737	2441	3253	2897	3792	3405	4398		112
	40	2053	2857	2635	3545	3165	4158	3733	4821	4376	5579		133
	45	2595	3566	3244	4310	3853	5015	4541	5798	5313	6702		151
35	50	3111	4228	3821	5023	4525	5815	5307	6711	6203	7751		168
	55	3586	4837	4363	5679	5146	6554	6026	7556	7038	8724		183
	60	4047	5394	4857	6202	5726	7234	6698	8335	7819	9622		196
	35	1217	1716	1612	2198	1958	2606	2321	3034	2727	3518		90
	40	1706	2370	2175	2922	2608	3422	3074	3966	3602	4539		109
	45	2156	3014	2733	3628	3251	4217	3820	4874	4469	5633		127
40	50	2674	3629	3274	4299	3874	4973	4542	5739	5308	6629		144
	55	3130	4206	3790	4929	4468	5685	5231	6554	6109	7568		159
	60	3562	4742	4277	5515	5030	6350	5881	7316	6666	8446		172
	65	3957	5238	4735	6060	5558	6957	6496	8025	7579	9264		185
	40	1419	1968	1796	2410	2149	2816	2532	3262	2966	3774		90
	45	1860	2548	2304	3053	2737	3545	3214	4096	3759	4734		107
45	50	2299	3115	2806	3679	3317	4253	3888	4908	4543	5668		123
	55	2726	3657	3293	4277	3879	4931	4541	5685	5302	6564		138
	60	3136	4169	3759	4842	4418	5573	5166	6421	6030	7413		151
	65	3525	4649	4203	5373	4931	6176	5762	7114	6723	8212		164
	70	3894	5090	4622	5870	5417	6742	6326	7764	7379	8963		176
	45	1577	2156	1943	2570	2304	2980	2704	3442	3162	3978		90
50	50	1978	2675	2405	3148	2840	3637	3227	4196	3888	4847		105
	55	2375	3180	2861	3711	3368	4277	3941	4930	4602	5692		120
	60	2761	3665	3304	4250	3891	4891	4538	5635	5296	6505		133
	65	3133	4126	3730	4753	4375	5475	5111	6306	5963	7280		145
	70	3489	4561	4137	5249	4847	6028	5660	6942	6602	8014		157
	75	3827	4971	4525	5706	5296	6550	6182	7542	7210	8708		168
55	50	1702	2297	2062	2694	2432	3110	2848	3587	3327	4143		90
	55	2069	2766	2486	3219	2925	3709	3421	4275	3994	4936		104
	60	2432	3222	2904	3731	3410	4292	3985	4944	4651	5709		117
	65	2785	3552	3310	4223	3931	4853	4534	5559	5290	6453		129
	70	3126	4081	3703	4692	4337	5389	5064	6206	5906	7165		141
	75	3453	4479	4080	5139	4774	5899	5572	6793	6498	7844		151
60	80	3766	4853	4440	5562	5192	6393	6058	7351	7064	8488		162
	55	1803	2405	2160	2793	2540	3216	2970	3707	3467	4290		90
	60	2142	2833	2553	3274	2995	3765	3501	4338	4085	5009		102
	65	2476	3249	2938	3743	3444	4301	4022	4954	4692	5720		114
	70	2801	3651	3314	4195	3881	4817	4530	5548	5284	6406		126
	75	3116	4037	3678	4628	4303	5313	5022	6119	5857	7065		136
65	80	3420	4404	4029	5042	4710	5786	5496	6664	6408	7696		147
	60	1887	2490	2244	2873	2632	3303	3075	3806	3587	4395		90
	65	2201	2883	2608	3317	3055	3811	3568	4390	4162	5069		101
	70	2510	3266	2967	3750	3472	4306	4053	4959	4727	5727		112
	75	2812	3637	3317	4168	3879	4784	4527	5511	5279	6364		123
	80	3106	3993	3656	4570	4274	5245	4986	6041	5813	6977		133
70	65	1957	2558	2315	2939	2711	3377	3165	3890	3692	4492		90
	70	2250	2922	2656	3351	3107	3848	3627	4433	4229	5119		101
	75	2538	3277	2990	3753	3497	4308	4080	4962	4758	5731		111
	80	2820	3621	3318	4142	3877	4754	4523	5476	5274	6325		121
75	70	2016	2613	2377	2995	2780	3439	3245	3962	3784	4576		90
	75	2291	2952	2695	3379	3152	3879	3678	4469	4288	5161		100
	80	2561	3282	3011	3754	3518	4309	4104	4964	4784	5734		109
80	75	2068	2658	2431	3042	2841	3492	3315	4023	3865	4648		90
	80	2326	2975	2732	3402	3192	3905	3723	4499	4340	5197		99
80	80	2112	2696	2479	3082	2896	3538	3377	4077	3937	4711		90

TABLE 23.---CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V41,V40) AND
TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED		
INITIAL	FINAL	50		60		70		80		90		BASAL AREA		
AGE	AGE	1	U.B.	O.B.	1.8.	O.8.	1.8.	O.8.	1.8.	O.8.	1.8.	O.8.	SQ. FT.	
YEARS		1	U.B.	O.B.	1.8.	O.8.	1.8.	O.8.	1.8.	O.8.	1.8.	O.8.		
100 SQ. FT. INITIAL BASAL AREA														
20	20	384	569	764	1107	1110	1577	1428	1993	1749	2405		100	
	25	961	1399	1577	2237	2080	2652	2554	3474	3054	4092		134	
	30	1680	2407	2451	3410	3080	4182	3702	4933	4379	5753		162	
	35	2727	3430	3295	4509	4034	5385	4794	6226	5640	7296		186	
	40	3143	4381	4078	5499	4914	6469	5804	7506	6807	8691		207	
	45	3801	5234	4789	6377	5715	7433	6724	8599	7870	9940		224	
50	4395	5993	5420	7151	6440	8269	7557	9570	8835	11054		239		
25	25	727	1059	1185	1680	1559	2159	1912	2599	2285	3061		100	
	30	1333	1911	1932	2688	2422	3285	2908	3673	3438	4515		127	
	35	1989	2809	2686	3672	3281	4378	3998	5106	4584	5926		152	
	40	2637	3673	3407	4591	4101	5395	4841	6259	5677	7655		173	
	45	3248	4469	4080	5429	4966	6324	5722	7314	6697	8955		191	
	50	3813	5188	4700	6185	5571	7166	6536	8272	7640	9955		207	
55	4320	5833	5267	6865	6218	7926	7283	9139	8507	10552		221		
30	30	1052	1522	1524	2118	1905	2583	2285	3041	2700	3544		100	
	35	1633	2305	2190	2931	2670	3559	3169	4150	3726	4814		123	
	40	2277	3092	2899	3834	3423	4499	4039	5218	4735	6039		144	
	45	2977	3818	3577	4822	4143	5380	4870	6221	5699	7191		162	
	50	3309	4498	4068	5350	4819	6195	553	7150	6607	8259		179	
	55	3804	5119	4619	6015	5450	6943	6382	8004	7454	9242		194	
60	4262	5683	5129	6623	6035	7627	7060	8767	8241	10144		207		
35	35	1343	1894	1797	2438	2173	2894	2577	3372	3029	3910		100	
	40	1862	2569	2351	3202	2858	3752	3370	4350	3949	5033		120	
	45	2376	3263	2964	3936	3527	4577	4145	5291	4850	6115		138	
	50	2072	3000	2822	3627	3227	4169	3755	4889	4470	5714		155	
	55	3342	4493	4051	5270	4777	6081	5593	7010	6532	8094		170	
	60	3783	5040	4547	5866	5348	6754	6255	7781	7301	8983		183	
65	4195	5543	5010	6415	5892	7376	6874	8495	8021	9806		196		
40	40	1567	2176	1932	2674	2386	3129	2812	3626	3294	4195		100	
	45	2035	2790	2527	3351	3004	3893	3528	4500	4128	5200		118	
	50	2495	3383	3050	4002	3607	4629	4229	5341	4942	6169		134	
	55	2938	3944	3553	4618	4187	5325	4901	6139	5724	7069		149	
	60	3359	4470	4081	5195	4739	5980	5514	6890	6473	7954		162	
	65	3758	4959	4483	5734	5261	6592	6147	7518	7048	8765		175	
70	4132	5413	4908	6236	5752	7163				9522		186		
45	45	1743	2387	2155	2654	2558	3312	3004	3626	3513	4422		100	
	50	2167	2934	2641	3461	3121	4000	3656	4615	4274	5331		116	
	55	2583	3452	3116	4045	3670	4664	4295	5376	5016	6207		130	
	60	2983	3964	3573	4601	4199	5295	4910	6100	5731	7043		144	
	65	3366	4437	4010	5125	4705	5891	5498	6766	6414	7834		156	
	70	3730	4820	4426	5618	5195	6453	6056	7431	7064	8579		168	
75	4074	5255	4819	6080	5641	6979	6535	8037	7680	9279		179		
50	50	1884	2546	2298	2993	2701	3457	3164	3988	3696	4606		100	
	55	2271	3033	2733	3544	3217	4034	3765	4707	4395	5435		114	
	60	2650	3515	3166	4074	3722	4688	4351	5401	5077	6236		127	
	65	3015	3959	3588	4591	4208	5285	4916	6064	5736	7001		140	
	70	3367	4400	3931	5061	4675	5813	5459	6694	6366	7722		152	
	75	3702	4806	4375	5515	5121	6331	5977	7291	6971	8418		162	
80	4020	5188	4741	5943	5545	6820	6470	7854	7545	9069		173		
55	55	1997	2668	2398	3104	2821	3576	3299	4121	3852	4759		100	
	60	2354	3118	2809	3606	3298	4150	3855	4781	4498	5520		113	
	65	2702	3551	3211	4094	3764	4704	4397	5419	5129	6256		125	
	70	3039	3938	3599	4559	4215	5236	4921	6030	5740	6962		137	
	75	3363	4361	3973	5003	4648	5743	5425	6613	6327	7636		147	
	80	3674	4736	4330	5424	5054	6224	5909	7168	6889	8277		158	
60	60	2091	2764	2491	3194	2923	3673	3416	4232	3986	4887		100	
	65	2421	3177	2873	3658	3367	4203	3932	4842	4587	5590		112	
	70	2744	3575	3246	4107	3800	4716	4436	5432	5174	6272		123	
	75	3056	3958	3607	4538	4220	5209	4925	5999	5743	6927		134	
	80	3359	4323	3955	4949	4624	5660	5396	6541	6291	7551		144	
	65	65	2170	2841	2571	3269	3011	3755	3517	4326	4102	4995		100
70		2477	3222	2927	3699	3426	4247	3999	4892	4664	5649		111	
75		2770	3591	3275	4115	3830	4724	4470	5441	5212	6283		121	
80		3069	3946	3613	4516	4223	5163	4927	5969	5745	6894		131	
70		70	2236	2904	2640	3331	3088	3825	3605	4406	4204	5088		100
		75	2521	3256	2974	3732	3477	4284	4057	4934	4731	5699		110
	80	2906	3601	3300	4120	3857	4729	4499	5447	5246	6291		120	
	75	75	2294	2956	2700	3384	3156	3664	3683	4475	4294	5169		100
		80	2565	3287	3014	3759	3522	4314	4109	4970	4790	5741		110
		80	2344	2999	2754	3429	3217	3936	3752	4535	4374	5239		100

TABLE 24.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME(V41,V40) AND
TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED	
INITIAL AGE	FINAL AGE	50		60		70		80		90		BASAL AREA	
YEARS		I.B.	O.B.	I.E.	O.B.	I.E.	O.B.	I.B.	O.B.	I.B.	O.B.	SQ. FT.	
110 SQ. FT. INITIAL BASAL AREA													
20	20	424	627	841	1219	1222	1735	1572	2193	1925	2646	110	
	25	1035	1506	1700	2411	2244	3109	2756	3748	3295	4416	144	
	30	1785	2559	2609	3630	3281	4455	3944	5257	4665	6131	173	
	35	2558	3614	3478	4759	4258	5686	5062	6638	5955	7704	197	
	40	3291	4589	4275	5766	5153	6784	6087	7875	7138	9116	217	
	45	3961	5456	4954	6651	5952	7755	7014	8971	8211	10371	234	
25	50	4563	6215	5639	7429	6690	8512	7850	9942	9178	11484	249	
	25	796	1159	1301	1845	1713	2373	2102	2858	2512	3366	110	
	30	1438	2061	2088	2904	2620	3556	3147	4193	3722	4899	138	
	35	2123	2999	2672	3927	3511	4685	4171	5467	4906	6344	162	
	40	2792	3891	3614	4871	4352	5726	5138	6644	6025	7690	183	
	45	3419	4707	4300	5723	5129	6668	6033	7712	7061	8915	201	
30	50	3995	5437	4927	6486	5842	7516	6854	8677	8013	10022	217	
	55	4518	6088	5499	7169	6493	8278	7605	9545	8884	11021	231	
	30	1161	1664	1673	2325	2093	2839	2512	3407	2996	3898	110	
	35	1764	2491	2056	3056	2695	3541	3147	4133	3722	4899	134	
	40	2371	3302	3703	4115	3675	4832	4337	5637	5082	6487	155	
	45	2953	4062	4524	4924	4413	5733	5189	6630	6043	7663	173	
35	50	3499	4758	4306	5654	5102	6560	5985	7572	6996	8745	189	
	55	4003	5389	4864	6336	5740	7314	6722	8433	7852	9737	204	
	60	4465	5958	5378	6845	6323	8000	7404	9218	8613	10641	217	
	35	1469	2072	1951	2672	2388	3162	2834	3709	3331	4301	110	
	40	2016	2804	2525	3478	3104	4028	3662	4728	4292	5472	130	
	45	2552	3507	3189	4237	3797	4923	4463	5699	5223	6567	149	
40	50	3065	4164	3763	4945	4455	5733	5226	6607	6108	7632	165	
	55	3547	4770	4302	5600	5075	6462	5942	7450	6940	8602	180	
	60	3996	5325	4805	6202	5653	7141	6612	8228	7718	9498	194	
	65	4413	5933	5373	6754	6191	7765	7235	8944	8444	10325	206	
	40	1715	2383	2187	2939	2622	3442	3092	3989	3623	4615	110	
	45	2207	3029	2747	3646	3268	4238	3839	4899	4492	5662	128	
45	50	2688	3645	3269	4318	3892	4995	4563	5766	5333	6659	144	
	55	3143	4223	3806	4949	4477	5805	5305	6582	6134	7599	159	
	60	3575	4760	4293	5537	5049	6374	5818	7305	6893	8478	173	
	65	3981	5257	4752	6082	5578	6992	6466	7995	7506	9295	186	
	70	4361	5715	5182	6586	6074	7565	7094	8712	8275	10057	197	
	50	45	1910	2617	2367	3138	2812	3643	3303	4210	3863	4866	110
50		2355	3191	2875	3770	3399	4350	3984	5031	4656	5810	126	
55		2786	3739	3367	4374	3967	5043	4643	5814	5422	6713	141	
60		3199	4255	3835	4943	4510	5653	5273	6554	6155	7567	155	
65		3592	4738	4283	5476	5025	6225	5872	7251	6852	8370	167	
70		3962	5141	4704	5975	5513	6833	6438	7903	7510	9123	179	
55	75	4311	5607	5102	6440	5973	7392	6972	8512	8132	9827	189	
	50	2065	2794	2514	3292	2969	3804	3479	4389	4065	5069	110	
	55	2471	3310	2978	3865	3507	4455	4105	5135	4793	5930	124	
	60	2954	3903	3422	4412	4028	5077	4710	5850	5497	6754	138	
	65	3241	4270	3850	4931	4528	5658	5290	6528	6172	7536	151	
	70	3500	4709	4271	5420	5004	6225	5843	7168	6816	8276	162	
60	75	3941	5121	4661	5879	5455	6749	6369	7771	7428	8972	173	
	80	4265	5507	5031	6310	5885	7241	6867	8338	8008	9628	183	
	55	2191	2931	2635	3415	3101	3935	3628	4536	4236	5237	110	
	60	2563	3400	3064	3938	3598	4531	4205	5220	4909	6027	123	
	65	2924	3848	3479	4439	4079	5102	4766	5877	5560	6785	136	
	70	3272	4274	3877	4916	4542	5646	5303	6502	6186	7507	147	
65	75	3604	4677	4259	5357	4984	6161	5818	7095	6785	8192	158	
	80	3921	5057	4623	5794	5406	6648	6308	7656	7356	8840	168	
	60	2295	3039	2738	3515	3214	4043	3757	4658	4384	5378	110	
	65	2639	3468	3135	3997	3675	4593	4293	5290	5008	6108	122	
	70	2973	3879	3520	4459	4122	5120	4813	5897	5614	6809	134	
	75	3295	4272	3892	4908	4563	5624	5314	6477	6197	7479	144	
70	80	3604	4645	4248	5319	4967	6104	5795	7029	6757	8117	155	
	65	234	3125	2826	3598	3312	4134	3868	4762	4512	5498	110	
	70	2702	3521	3196	4044	3712	4643	4368	5348	5095	6175	121	
	75	3013	3901	3556	4472	4160	5134	4854	5913	5661	6828	132	
	80	3314	4265	3903	4883	4563	5603	5324	6453	6207	7453	142	
	75	70	2456	314	2902	3667	3397	4211	3965	4850	4624	5601	110
75		2756										120	
80		3047	3562 3916	3249 3586	4082 4482	4192 3888	4686 5144	4434 4888	5387 5825	5171 5702	6233 6842	130	
75	75	2520										110	
	80	2801	3253 358	2969 328	4114 3726	3471 3851	4722 4277	4051 4489	4826 5439	4723 5236	5689 6282	120	
80	2516	3301	304	3776	3536	4334	4127	4992	4812	5767	110		

TABLE 25.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V41, V40) AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA
		50		60		70		80		90		
		I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	
YEARS												SO. FT.
120 SO. FT. INITIAL BASAL AREA												
20	20	463	685	919	1331	1334	1894	1715	2392	2100	2886	120
	25	1107	1610	1821	2583	2405	3332	2954	4018	3532	4734	155
	30	1887	2705	2763	3844	3475	4719	4178	5570	4943	6497	183
	35	2683	3792	3653	4999	4474	5975	5319	6976	6258	8097	207
	40	3433	4787	4463	6020	5381	7086	6357	8225	7455	9522	227
	45	4113	5666	5189	6913	6196	8061	7290	9325	8534	10780	243
25	50	4721	6432	5838	7691	6326	8917	8128	10295	9503	11892	257
	25	866	1260	1417	2010	1868	2588	2293	3117	2740	3672	120
	30	1540	3183	2242	3119	2937	3852	3438	4508	4001	5256	148
	35	2253	4102	3053	4176	3753	4993	4424	5831	5220	6751	173
	40	2343	3813	3813	5141	4598	6095	5424	7057	6361	8120	193
	45	3584	4934	4511	6005	5382	7851	6331	8095	7410	9358	211
30	50	4168	5675	5145	6774	6101	8101	7158	9063	8369	10469	227
	55	4637	6331	5720	7458	6754	8612	7911	9931	9242	11466	240
	30	1260	1806	1821	2532	2282	3096	2739	3648	3238	4252	120
	35	1894	2575	2553	3490	3118	4159	3703	4983	4354	5629	144
	40	2525	3517	3259	4390	3921	5158	4598	6027	5427	6925	165
	45	3124	4298	3322	5217	4675	6305	5498	7027	6435	8122	183
35	50	3681	5008	4535	5967	5374	6912	6305	7979	7370	9216	200
	55	4193	5647	5099	6644	6018	7670	7049	8844	8233	10211	214
	60	4662	6221	5516	7255	6610	8357	7733	9629	9027	11115	227
	35	1594	2250	2136	2917	2604	3470	3090	4046	3633	4693	120
	40	2168	3017	2810	3532	3248	4200	3950	5103	4631	5906	141
	45	2725	3745	3597	4555	4062	5275	4775	6099	5588	7049	159
40	50	3252	4420	4052	5272	4735	6085	5553	7024	6491	8113	176
	55	3744	5038	4545	5919	5363	7514	6280	7876	7335	9093	191
	60	4200	5600	5054	6525	5946	8140	6356	8658	8120	9995	204
	65	4621	6111	5525	7078	6488	8754	7583	9375	8848	10921	216
	40	1863	2590	2352	3203	2859	3754	3372	4352	3951	5036	120
	45	2378	3265	2955	3938	3529	4579	4147	5294	4853	6118	138
45	50	2974	3902	3524	4629	4171	5357	4891	6183	5716	7141	155
	55	3344	4495	4052	5272	4779	6083	5553	7013	6535	8097	170
	60	3785	5042	4549	5868	5350	6756	6257	7784	7304	8986	183
	65	4197	5544	5012	6417	5884	7378	6877	8498	8024	9810	196
	70	4590	6006	5445	6323	6363	7953	7455	9158	8697	10571	207
	45	2076	2847	2579	3421	3060	3975	3602	4594	4214	5310	120
50	50	2540	3445	3107	4077	3675	4716	4308	5442	5035	6286	136
	55	2987	4010	3613	4697	4259	5417	4985	6245	5822	7210	151
	60	3411	4539	4093	5277	4613	6074	5529	6998	6570	8079	165
	65	3811	5030	4547	5817	5337	6638	6236	7703	7277	8892	177
	70	4187	5466	4974	6320	5829	7259	6808	8359	7942	9650	189
	75	4539	5907	5374	6786	6292	7791	7346	8970	8567	10356	200
55	50	2246	3042	2739	3591	3238	4151	3795	4790	4434	5532	120
	55	2658	3579	3221	4183	3795	4823	4442	5560	5187	6420	135
	60	3074	4087	3694	4745	4330	5461	5063	6292	5910	7264	148
	65	3461	4564	4125	5273	4840	6052	5656	6982	6599	8060	161
	70	3828	5010	4543	5769	5324	6626	6236	7745	7253	8809	173
	75	4174	5427	4939	6232	5781	7154	6725	8238	7871	9511	183
60	80	4501	5615	5312	6565	6213	7648	7251	8907	8455	10169	193
	55	2771	3693	3379	4273	3882	4909	4555	5658	5216	6420	120
	60	3144	4141	3743	4780	4390	5494	5129	6328	5984	7306	146
	65	3500	4576	4151	5265	4862	6048	5678	6964	6623	8040	158
	70	3838	4966	4539	5723	5312	6569	6201	7565	7231	8734	168
	75	4160	5370	4907	6153	5739	7051	6697	8131	7809	9388	179
65	60	2498	3312	2995	3835	3505	4413	4097	5084	4782	5870	120
	65	2856	3755	3336	4333	3982	4979	4652	5735	5427	6622	132
	70	3200	4179	3792	4806	4441	5519	5185	6356	6048	7339	144
	75	3530	4580	4171	5255	4881	6032	5697	6947	6644	8021	155
	80	3845	4959	4533	5680	5301	6518	6186	7506	7213	8667	165
	65	2594	3408	3081	3927	3612	4512	4219	5198	4921	6001	120
70	70	2326	3817	3464	4386	4056	5539	5234	6379	6104	7365	131
	75	2640	4207	3833	4925	4485	6017	5713	6929	6662	8002	142
	80	2954	4579	4168	5243	4896	6301	5997	7213	6946	8387	152
	70	2676	3485	3123	4003	3705	4597	4325	5294	5044	6113	120
	75	2986	3665	3336	4430	4121	5085	4809	5857	5608	6763	131
	80	3285	4228	3969	4840	4523	5554	5277	6397	6153	7387	141
75	75	2746	3550	3238	4067	3786	4669	4419	5378	5152	6210	120
	80	3037	3903	3574	4467	4178	5126	4874	5905	5683	6819	130
80	80	2807	3603	3302	4123	3859	4731	4502	5450	5249	6295	120

TABLE 26.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V41,V40) AND TOTAL □ ASA1. AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE		FINAL AGE		SITE INDEX										PROJECTED BASAL AREA	
				50		60		70		80		90			
				1.B.	O.B.	1.B.	O.B.	1.B.	O.B.	1.B.	O.B.	1.B.	O.B.	SQ. FT.	
130 SQ. FT. INITIAL BASAL AREA															
20	20	503	743	996	1443	1446	2052	1859	2592	2275	3127	130			
	25	1178	1714	1940	2752	2563	3552	3149	4293	3765	5047	165			
	30	1937	2849	2912	4052	3664	4977	4407	5875	5214	6853	193			
	35	2805	3964	3822	5231	4692	6254	5568	7303	6551	8476	217			
	40	3569	4979	4643	6265	5600	7375	6616	8561	7759	9911	236			
	45	4258	5867	5376	7162	6420	8353	7554	9564	8843	11171	252			
25	50	4872	6538	6027	7941	7151	9207	8392	10531	9812	12279	266			
	25	935	1351	1533	2175	2022	2802	2483	3376	2968	3977	130			
	30	1642	2353	2394	3331	3008	4084	3615	4818	4276	5619	159			
	35	2380	3363	3230	4419	3953	5277	4699	6150	5527	7149	183			
	40	3389	4306	4007	5403	4828	6355	5702	7375	6687	8539	203			
	45	3742	5154	4714	6277	5626	7317	6618	8464	7747	9784	221			
30	50	4335	5903	5354	7050	6349	8172	7450	9434	8710	10897	236			
	55	4936	6562	5931	7734	7004	8922	8204	10300	9584	11892	249			
	30	1359	1948	1970	2733	2470	3352	2966	3951	3537	4607	130			
	35	2022	2856	2731	3735	3338	4453	3965	5196	4720	6029	154			
	40	2675	3727	3458	4660	4153	5476	4914	6354	5754	7354	175			
	45	3290	4528	4134	5501	4931	6409	5799	7412	6707	8568	193			
35	50	3858	5250	4756	6260	5638	7253	6614	8372	7733	9670	209			
	55	4377	5895	5325	6940	6286	8013	7363	9240	8600	10668	223			
	60	4849	6473	5944	7552	6879	8699	8048	10023	9396	11571	236			
	35	1720	2428	2311	3157	2819	3758	3346	4393	3935	5084	130			
	40	2319	3228	2965	4020	3590	4719	4236	5474	4956	6335	151			
	45	2894	3979	3626	4822	4322	5614	5081	6491	5846	7503	169			
40	50	3434	4670	4226	5558	5006	6437	5872	7429	6865	8581	186			
	55	3936	5298	4791	6228	5642	7189	6608	8288	7718	9570	201			
	60	4399	5835	5294	6837	6230	7874	7288	9073	8508	10474	214			
	65	4822	6379	5767	7391	6773	8499	7916	9789	9238	11300	225			
	40	2010	2797	2578	3468	3095	4067	3551	4715	4280	5457	130			
	45	2546	3498	3181	4227	3788	4917	4452	5685	5210	6571	148			
45	50	3058	4155	3755	4934	4446	5712	5214	6583	6094	7615	165			
	55	3540	4760	4293	5508	5064	6449	5930	7435	6926	8584	180			
	60	3988	5315	4796	6190	5642	7128	6600	8212	7704	9481	193			
	65	4405	5823	5264	6742	6180	7752	7223	8929	8429	10307	206			
	70	4782	6265	5595	7249	6681	8327	7804	9569	9104	11058	217			
	50	45	2241	3076	2791	3705	3320	4307	3901	4978	4565	5754	130		
50		2724	3697	3355	4391	3948	5069	4629	5850	5410	6757	146			
55		3184	4278	3855	5015	4545	5753	5322	6669	6215	7700	161			
60		3618	4817	4345	5604	5110	6452	5976	7433	6976	8581	175			
65		4025	5315	4805	6150	5640	7071	6591	8144	7691	9401	188			
70		4405	5774	5235	6655	6137	7644	7168	8803	8361	10162	199			
55	75	4760	6137	5638	7122	6601	8176	7707	9414	8989	10867	209			
	50	2427	3290	2965	3890	3506	4498	4110	5190	4803	5995	130			
	55	2854	3845	3462	4493	4080	5189	4776	5982	5579	6907	145			
	60	3282	4366	3937	5073	4629	5839	5412	6728	6317	7767	159			
	65	3677	4852	4386	5609	5147	6449	6014	7427	7018	8574	171			
	70	4050	5304	4810	6110	5637	7018	6593	8021	7679	9329	183			
60	75	4380	5614	5088	6399	5898	7243	6892	8302	7868	9692	193			
	80	4780	6114	5588	6909	6398	7843	7429	8921	8468	10392	203			
	55	2577	3455	3110	4037	3663	4654	4287	5365	5006	6195	130			
	60	2978	3957	3567	4592	4192	5285	4901	6089	5720	7030	144			
	65	3350	4429	4004	5115	4697	5881	5488	6774	6403	7820	155			
	70	3724	4872	4419	5609	5177	6442	6046	7419	7053	8565	168			
65	75	4068	5297	4812	6071	5633	6969	6555	8025	7668	9265	179			
	80	4393	5674	5194	6503	6063	7462	7076	8593	8251	9921	189			
	60	2702	3586	3232	4157	3796	4783	4438	5510	5180	6362	130			
	65	3071	4043	3655	4667	4285	5363	5008	6177	5843	7132	142			
	70	3424	4476	4060	5149	4756	5914	5553	6810	6478	7863	154			
	75	3761	4893	4446	5605	5203	6434	6073	7409	7083	8554	165			
70	80	4080	5266	4813	6034	5628	6924	6568	7973	7659	9206	175			
	65	2806	3690	3336	4256	3912	4891	4570	5633	5331	6504	130			
	70	3148	4111	3730	4727	4369	5428	5101	6252	5949	7218	142			
	75	3477	4510	4107	5174	4806	5939	5610	6840	6542	7897	152			
	80	3790	4887	4468	5598	5225	6424	6097	7398	7109	8542	163			
	70	2895	3776	3427	4339	4013	4983	4685	5738	5464	6626	130			
75	75	3214	4165	3795	4777	4440	5483	5182	6314	6043	7291	141			
	80	3521	4535	4148	5193	4850	5960	5660	6864	6599	7926	151			
	75	2972	3846	3506	4409	4101	5061	4786	5929	5581	6731	130			
	80	3271	4209	3852	4818	4503	5529	5254	6368	6125	7354	140			
	80	3038	3905	3576	4469	4180	5129	4977	5908	5686	6823	130			

TABLE 27.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V41, V40) AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED BASAL AREA	
INITIAL AGE	FINAL AGE	50		60		70		80		90			
YEARS		I.	O.B.	I.	O.B.	I.	O.B.	I.	O.B.	I.	O.B.		SQ. FT.
140 SQ. FT. INITIAL BASAL AREA													
20	20	542	802	1074	1555	1557	2211	2002	2792	2451	3368		140
	25	1248	1815	2057	2918	2719	3767	3341	4544	3995	5355		175
	30	2084	2987	3057	4255	3849	5228	4629	6172	5477	7200		203
	35	2922	4130	3985	5455	4884	6524	5808	7619	6834	8843		226
	40	3700	5161	4817	6500	5811	7653	6865	8884	8052	10285		245
	45	4398	6060	5555	7401	6634	8633	7806	9988	9139	11546		261
	50	5016	6835	6207	8179	7365	9485	8644	10951	10107	12550		274
25	25	1004	1462	1650	2340	2177	3016	2673	3635	3196	4283		140
	30	1742	2497	2544	3540	3198	4343	3845	5124	4548	5976		169
	35	2505	3539	3404	4657	4167	5563	4953	6495	5827	7537		193
	40	3231	4504	4195	5657	5055	6656	5971	7725	7003	8943		213
	45	3896	5365	4911	6540	5852	7624	6896	8820	8072	10196		230
	50	4495	6122	5554	7316	6588	8481	7731	9791	9039	11309		245
	55	5032	6785	6133	7993	7243	9239	8485	10653	9912	12300		258
30	30	1458	2090	2118	2947	2658	3608	3194	4255	3776	4961		140
	35	2149	3035	2908	3977	3555	4744	4224	5536	4958	6424		164
	40	2822	3933	3653	4924	4399	5769	5155	6717	6091	7775		185
	45	3452	4752	4342	5779	5179	6734	6092	7788	7130	9003		203
	50	4029	5485	4971	6544	5893	7583	6915	8754	8084	10111		219
	55	4554	6136	5543	7227	6545	8345	7666	9622	8955	11109		233
	60	5029	6715	6054	7837	7138	9028	8351	10403	9750	12009		245
35	35	1845	2605	2465	3395	3034	4046	3603	4720	4236	5476		140
	40	2467	3436	3182	4287	3829	5035	4519	5841	5253	6700		161
	45	3060	4209	3939	5107	4577	5947	5382	6877	6299	7940		179
	50	3613	4914	4449	5853	5272	6780	6185	7826	7230	9033		196
	55	4122	5550	5011	6529	5914	7537	6926	8690	8090	10033		210
	60	4589	6122	5527	7140	6505	8223	7609	9475	8883	10938		223
	65	5016	6637	6001	7692	7045	8847	8238	10189	9614	11761		235
40	40	2158	3003	2773	3732	3332	4379	3931	5078	4608	5877		140
	45	2713	3730	3395	4513	4045	5292	4755	6073	5564	7019		159
	50	3240	4403	3982	5235	4716	6062	5532	6958	6466	8081		175
	55	3731	5020	4529	5998	5344	6807	6258	7848	7309	9061		190
	60	4187	5582	5038	6504	5927	7490	6933	8630	8094	9962		203
	65	4608	6093	5508	7057	6468	8115	7560	9347	8822	10789		215
	70	4997	6557	5944	7563	6970	8688	8141	10004	9497	11548		226
45	45	2407	3306	3003	3988	3574	4638	4201	5362	4915	6197		140
	50	2906	3946	3564	4693	4219	5420	4948	6255	5783	7224		157
	55	3378	4541	4095	5328	4829	6147	5654	7087	6604	8183		172
	60	3821	5090	4592	5925	5401	6822	6317	7850	7374	9073		185
	65	4233	5594	5057	6474	5936	7444	6938	8574	8096	10059		197
	70	4617	6055	5490	6961	6436	8019	7517	9234	8769	10789		209
	75	4975	6473	5893	7447	6901	8549	8057	9843	9397	11363		219
50	50	2507	3537	3191	4188	3775	4845	4426	5591	5172	6458		140
	55	3059	4109	3702	4913	4394	5552	5109	6400	5966	7390		155
	60	3487	4641	4186	5397	4822	6213	5756	7158	6719	8264		169
	65	3890	5135	4642	5940	5448	6829	6367	7865	7429	9079		181
	70	4267	5592	5070	6443	5943	7401	6941	8523	8096	9938		193
	75	4621	6014	5471	6910	6406	7932	7479	9134	8723	10544		203
	80	4951	6404	5847	7343	6841	8426	7984	9702	9310	11201		213
55	55	2770	3717	3347	4348	3944	5014	4616	5779	5390	6673		140
	60	3183	4232	3816	4916	4485	5658	5245	6519	6122	7526		154
	65	3574	4714	4261	5449	5030	6264	5843	7214	6817	8328		166
	70	3944	5164	4682	5947	5487	6831	6408	7855	7475	9081		178
	75	4292	5582	5060	6412	5947	7360	6942	8475	8096	9784		189
	80	4620	5971	5454	6845	6330	7855	7445	9344	8882	10442		199
60	60	2905	3859	3479	4478	4088	5153	4779	5937	5578	6854		140
	65	3284	4328	3912	4993	4589	5745	5362	6617	6256	7639		153
	70	3645	4769	4325	5489	5067	6304	5917	7259	6902	8381		164
	75	3987	5181	4716	5949	5520	6729	6344	7864	7515	9079		175
	80	4311	5568	5087	6381	5930	7322	6943	8431	8096	9735		185
	65	65	3018	3973	3591	4585	4212	5269	4921	6069	5741	7007		140
70		3369	4403	3994	5065	4679	5818	5464	6700	6373	7735		152
75		3704	4809	4379	5520	5125	6336	5982	7296	6976	8424		162
80		4023	5191	4745	5918	5549	6825	6475	7859	7550	9075		173
70	70	3114	4066	3689	4675	4321	5369	5045	6183	5884	7138		140
	75	3441	4464	4065	5121	4757	5978	5553	6769	6475	7816		151
	80	3754	4840	4425	5544	5175	6362	6038	7326	7041	8460		161
	75	75	3197	4143	3775	4751	4416	5453	5154	6280	6011	7252		140
80		3503	4513	4128	5167	4826	5930	5631	6829	6566	7886		150
80	80	3269	4207	3850	4816	4501	5527	5252	6365	6123	7351		140

TABLE 28.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V41, V40) AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED BASAL AREA	
INITIAL AGE	FINAL AGE	50		60		70		80		90		SQ. FT.	
YEARS		I.E.	O.B.	I.B.	O.B.	I.E.	O.B.	I.B.	O.B.	I.B.	O.B.		
150 SQ. FT. INITIAL BASAL AREA													
20	20	582	860	1151	1667	1689	2369	2145	2992	2626	3509	150	
	25	1317	1915	2173	3082	2872	3980	3530	4801	4221	5658	185	
	30	2178	3122	3199	4453	4029	5473	4846	6462	5735	7538	213	
	35	3035	4291	4144	5673	5079	6785	6041	7925	7108	9199	235	
	40	3826	5337	4985	6726	6014	7921	7105	9198	8334	10647	253	
	45	4531	6245	5726	7831	6940	8902	8049	10299	9423	11906	269	
50	5153	7024	6379	8402	7571	9750	8885	11258	10390	13004	281		
25	25	1074	1562	1766	2505	2331	3230	2864	3894	3424	4589	150	
	30	1841	2638	2693	3747	3386	4589	4071	5427	4816	6330	179	
	35	2626	3711	3573	4890	4376	5843	5202	6823	6121	7916	202	
	40	3368	4697	4378	5905	5278	6949	6234	8066	7311	9337	222	
	45	4044	5571	5101	6754	6090	7922	7165	9165	8387	10595	239	
	50	4650	6334	5748	7572	6819	8779	8002	10135	9356	11707	253	
55	5190	6998	6327	8234	7473	9534	8755	10993	10227	12693	266		
30	30	1537	2274	2301	3201	2817	3770	3300	4400	3874	5046	150	
	35	2267	3435	3445	4584	4032	5398	4700	6170	5414	6916	174	
	40	2967	4135	3845	5184	4632	6098	5470	7074	6414	8189	195	
	45	3610	4970	4544	6050	5322	7051	6376	8155	7466	9427	213	
	50	4196	5713	5179	6820	6142	7904	7206	9124	8425	10539	228	
	55	4725	6369	5754	7504	6755	8665	7960	9992	9298	11536	242	
60	5203	6949	6376	8113	7389	9346	8544	10769	10092	12431	253		
35	35	1970	2783	2659	3536	3249	4334	3859	5057	4538	5867	150	
	40	2614	3642	3378	4551	4065	5348	4759	6224	5685	7181	171	
	45	3223	4435	4049	5387	4823	6275	5578	7324	6670	8389	189	
	50	3767	5153	4667	6142	5532	7116	6490	8324	7650	9488	205	
	55	4303	5736	5234	6922	6179	7976	7237	9061	8453	10485	220	
	60	4774	6372	5753	7433	6771	8562	7822	9865	9248	11388	232	
65	5203	6987	6227	7984	7314	9182	8550	10576	9977	12207	243		
40	40	2305	3209	2968	3536	3599	4691	4211	5441	4937	6293	150	
	45	3419	4648	4206	5337	4983	6405	5845	7394	6813	8541	169	
	50	3919	5275	4761	6201	5618	7158	6579	8253	7685	9529	185	
	55	4391	5843	5274	6810	6206	7843	7259	9037	8475	10433	200	
	60	4805	6356	5746	7354	6748	8469	7888	9754	9204	11259	213	
	65	5155	6820	6102	7866	7249	9039	8458	10408	9839	12014	225	
45	45	2573	3535	3215	4272	3828	4970	4500	5746	5266	6641	150	
	50	3087	4194	3791	4902	4469	5767	5264	6556	6153	7688	167	
	55	3570	4802	4331	5637	5102	6505	5922	7500	6937	8660	182	
	60	4020	5358	4834	6240	5687	7105	6552	8279	7766	9557	195	
	65	4439	5866	5303	6792	6226	7810	7277	8995	8491	10383	207	
	70	4824	6329	5729	7289	6727	8384	7858	9654	9166	11144	218	
75	5183	6752	6141	7763	7182	8912	8397	10261	9794	11845	228		
50	50	2788	3784	3416	4497	4043	5192	4741	5992	5541	6921	150	
	55	3252	4371	3940	5125	4645	5912	5439	6816	6352	7870	165	
	60	3589	4913	4432	5717	5213	6592	6096	7583	7116	8755	179	
	65	4098	5413	4894	6264	5745	7202	6713	8255	7834	9576	191	
	70	4480	5874	5325	6770	6242	7777	7291	8955	8505	10337	202	
	75	4836	6297	5728	7237	6707	8308	7831	9565	9133	11043	213	
80	5168	6685	6104	7668	7142	8799	8335	10131	9720	11696	222		
55	55	2963	3978	3584	4659	4224	5373	4945	6194	5775	7152	150	
	60	3386	4506	4063	5238	4777	6029	5587	6946	6521	8019	164	
	65	3785	4993	4516	5777	5300	6542	6194	7650	7227	8831	176	
	70	4161	5451	4942	6279	5792	7213	6765	8306	7892	9588	188	
	75	4513	5872	5342	6746	6255	7744	7302	8917	8515	10294	198	
	80	4843	6262	5718	7179	6659	8232	7807	9486	9103	10952	206	
60	60	3109	4132	3725	4798	4379	5523	5120	6363	5976	7346	150	
	65	3496	4611	4163	5328	4900	6125	5714	7054	6667	8144	163	
	70	3864	5053	4567	5824	5375	6690	6277	7704	7322	8894	174	
	75	4211	5475	4983	6289	5833	7219	6810	8312	7942	9596	185	
	80	4539	5964	5355	6721	6255	7713	7312	8831	8526	10254	195	
	65	65	3230	4255	3846	4914	4512	5648	5272	6505	6151	7510	150
70		3589	4694	4257	5402	4928	6205	5825	7145	6794	8249	162	
75		3930	5106	4647	5852	5440	6729	6350	7748	7406	8946	173	
80		4253	5491	5017	6293	5868	7221	6848	8315	7985	9601	183	
70		70	3333	4356	3951	5011	4628	5754	5405	6627	6304	7651	150
		75	3667	4761	4335	5464	5073	6272	5922	7222	6906	8339	161
	80	3985	5142	4700	5891	5496	6760	6414	7785	7479	8989	171	
	75	75	3423	4439	4043	5093	4731	5846	5522	6732	6440	7773	150
		80	3735	4815	4403	5515	5148	6329	6007	7288	7004	8416	160
	80	80	3500	4509	4124	5163	4822	5925	5626	6823	6560	7879	150

Current and Projected Merchantable Cubic Foot Volume (V10I, V10O) and
Total Basal Area Per Acre

TABLE 29.---CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V101, V100) AM
TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA	
		50		60		70		80		90			
		I	O.B.	I.B.	O.B.	I.E.	O.B.	I.B.	O.B.	I.B.	O.B.	I	SP. FT.
20 SP. FT. INITIAL BASAL AREA													
20	20												
	25			1	8	4	6	16	21	43	59	20	
	30		12	16	27	36	112	30	40	94	126	215	289
	35		33	42	107	81	105	287	374	667	866	1169	1510
	40					242	577	743	1181	1514	1892	239s	93
	45		74	96	365	468	980	1252	1801	2286	2672	3365	110
25	50		146	189	624	796	1479	1875	2484	3125	3492	4356	126
	25		0	1	4	6	21	29	65	87	143	191	20
	30		3	4	23	31	93	123	235	310	437	574	33
	35		12	16	78	103	260	341	657	726	907	1171	48
	40		36	47	195	254	546	709	1015	1306	1501	1913	63
	45		87	113	393	509	943	1212	1565	1992	2167	2730	78
30	50		177	231	690	877	1421	1812	2165	2730	2865	3575	93
	55		321	417	1048	1343	1947	2464	2784	3481	3570	4418	106
	30		2	3	18	23	68	89	164	216	292	383	20
	35		11	14	66	85	206	270	416	541	645	930	31
	40		34	45	175	228	454	589	787	1010	1110	1410	43
	45		88	115	367	476	101	1030	1240	1576	1648	2071	56
35	50		186	244	644	933	1218	1554	1742	2194	2227	2774	68
	55		344	449	994	1278	1675	2120	2257	2832	2826	3492	81
	60		568	740	1392	1780	2148	2701	2799	3471	3430	4209	93
	35		9	11	50	65	151	197	293	378	440	563	20
	40		30	39	143	186	350	452	576	738	792	1002	29
	45		80	105	312	404	635	814	939	1188	1217	1523	40
40	50		177	231	559	722	982	1249	1349	1693	1690	2097	50
	55		334	436	868	1115	1366	1725	1788	2227	2193	2702	61
	60		554	723	1218	1556	1769	2219	2243	2774	2712	3320	72
	65		831	1081	1588	2016	2179	2716	2703	3323	3236	3941	82
	40		24	31	110	142	256	330	413	523	555	697	20
	45		68	89	250	322	484	615	694	872	885	1102	28
45	50		156	203	459	569	765	938	1024	1278	1266	1565	37
	55		301	392	722	923	1063	1361	1387	1721	1684	2069	46
	60		505	657	1020	1298	1423	1770	1773	2185	2127	2595	56
	65		758	964	1337	1693	1775	2205	2171	2661	2584	3137	65
	70		1044	1351	1662	2092	2131	2634	2575	3140	3049	3683	74
	45		55	70	193	246	360	453	506	630	639	789	20
50	50		131	169	364	463	584	733	769	953	943	1158	27
	55		259	335	582	739	845	1055	1067	1316	1287	1572	35
	60		439	669	832	1053	1129	1403	1391	1707	1660	2018	43
	65		663	856	1102	1388	1430	1768	1733	2116	2055	2486	51
	70		914	1176	1392	1732	1740	2142	2087	2537	2463	2967	60
	75		1180	1513	1666	2078	2055	2519	2447	2962	2880	3455	68
55	50		106	134	282	354	441	547	573	704	700	852	20
	55		215	275	460	570	652	808	816	999	980	1190	26
	60		370	474	669	838	889	1098	1087	1326	1293	1564	33
	65		563	721	896	1121	1144	1409	1379	1676	1630	1965	41
	70		780	997	1136	1416	1413	1731	1686	2042	1966	2365	48
	75		1010	1288	1384	1718	1690	2063	2005	2419	2355	2817	56
60	80		1246	1583	1635	2022	1973	2399	2330	2801	2732	3257	63
	55		174	218	359	445	501	613	622	755	745	898	20
	60		305	386	531	659	697	853	847	1026	1005	1208	26
	65		468	594	722	696	913	1115	1095	1323	1292	1549	32
	70		654	830	928	1148	1144	1393	1360	1640	1600	1913	39
	75		853	1080	1143	1411	1386	1684	1640	1971	1924	2294	45
65	80		1059	1336	1364	1679	1637	1983	1929	2312	2260	2687	52
	60		247	307	419	513	544	659	659	791	781	931	20
	65		384	481	579	711	726	979	869	1042	1023	1219	25
	70		543	681	754	926	924	1118	1096	1314	1288	1532	31
	75		714	895	941	1153	1135	1371	1340	1603	1571	1866	37
	80		893	1118	1135	1389	1357	1636	1596	1905	1869	2214	43
70	65		312	385	462	561	576	691	687	818	809	958	20
	70		446	553	611	745	745	894	883	1051	1036	1226	25
	75		593	736	772	989	929	1114	1095	1302	1282	1515	30
	80		749	929	943	1145	1123	1347	1320	1568	1545	1823	36
75	70		365	445	494	593	601	714	710	839	833	979	20
	75		491	601	633	762	759	903	894	1056	1046	1230	25
	80		625	768	782	942	930	1107	1092	1290	1276	1499	29
80	75		404	488	518	616	620	731	729	855	854	996	20
	80		521	632	648	773	769	909	902	1059	1055	1232	24
80	80		433	518	536	633	636	745	745	869	871	1011	20

TABLE 30.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V101, V100) AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA
		50		60		70		80		90		
		I.B.	O.B.	I.B.	O.B.	I.E.	O.B.	I.B.	O.B.	I.B.	O.B.	
YEARS												SQ. FT.
30 SQ. FT. INITIAL BASAL AREA												
20	20	0	0	1	1	5	7	20	28	56	76	30
	25	1	1	7	9	33	44	106	142	250	334	51
	30	3	4	27	35	114	149	316	414	652	853	73
	35	11	14	75	98	278	359	679	877	1253	1614	94
	40	29	37	169	217	546	699	1188	1517	2002	2543	113
	45	63	81	323	411	923	1172	1814	2293	2839	3565	131
25	50	122	156	549	695	1402	1766	2519	3156	3714	4622	148
	25	1	1	6	7	27	36	87	113	190	255	30
	30	3	4	26	35	107	141	281	371	544	714	47
	35	12	16	82	107	363	470	633	831	1088	1406	64
	40	34	45									81
	45	80	103	302	394	986	1261	1743	2216	2766	3371	98
30	50	159	206	655	840	1485	1898	2402	3026	3296	4113	113
	55	285	367	1012	1291	2044	2580	3084	3853	4076	5045	128
	30	3	4	22	29	88	116	220	290	404	531	30
	35	12	16	76	100	250	328	529	669	849	1097	44
	40	36	47	192	251	530	688	969	1247	1417	1805	58
	45	88	115	391	508	919	1182	1500	1909	2055	2589	73
35	50	181	236	679	876	1386	1769	2080	2622	2728	3404	87
	55	329	428	1046	1342	1899	2405	2679	3350	3711	4221	100
	60	541	702	1471	1878	2431	3057	3279	4070	4066	5022	113
	35	11	14	64	84	202	264	406	527	628	808	30
	40	34	45	173	225	446	573	770	999	1084	1377	42
	45	87	114	363	472	789	1015	1217	1546	1613	2027	54
40	50	166	213	639	827	1201	1532	1711	2155	2184	2719	67
	55	344	450	396	1266	1652	2091	2230	2795	2775	3429	79
	60	569	741	1381	1766	2120	2665	2756	3417	3373	4138	91
	65	655	1112	1901	2290	2590	3235	3279	4039	3367	4837	102
	40	30	39	145	188	356	459	589	753	809	1023	30
	45	81	105	315	409	644	826	955	1209	1239	1552	40
45	50	176	232	565	729	995	1267	1370	1720	1718	2133	51
	55	335	439	877	1126	1384	1748	1814	2260	2226	2744	62
	60	556	726	1229	1570	1791	2247	2273	2912	2751	3366	73
	65	834	1085	1602	2035	2204	2748	2737	3365	3281	3393	83
	70	1154	1496	1981	2502	2616	3243	3199	3911	3810	4612	94
	45	71	92	262	338	510	651	736	927	942	1173	30
50	50	161	209	478	615	804	1018	1080	1350	1339	1656	39
	55	309	402	750	960	1134	1427	1458	1809	1772	2177	49
	60	516	672	1059	1347	1485	1657	1655	2289	2229	2722	58
	65	774	1006	1385	1754	1848	2237	2265	2778	2699	3270	68
	70	1067	1381	1719	2165	2214	2737	2679	3269	3176	3037	78
	75	1379	1777	2053	2573	2579	3173	3093	3756	3652	4393	87
55	50	139	180	393	502	639	804	844	1049	1038	1277	30
	55	273	354	625	796	917	1147	1162	1436	1404	1719	38
	60	462	599	891	1129	1216	1517	1505	1850	1799	2190	47
	65	695	899	1175	1483	1535	1901	1665	2260	2214	2681	55
	70	957	1235	1469	1844	1859	2292	2234	2719	2640	3163	64
	75	1235	1566	1766	2206	2187	2684	2609	3161	3073	3669	73
60	80	1518	1941	2061	2563	2516	3073	2985	3601	3507	4194	81
	55	235	302	513	648	735	913	923	1134	1110	1352	30
	60	402	517	740	932	992	1229	1217	1489	1449	1757	37
	65	606	702	986	1237	1267	1563	1531	1665	1812	2189	45
	70	840	1078	1244	1554	1554	1909	1859	2255	2191	2635	53
	75	1086	1369	1507	1675	1848	2261	2196	2654	2562	3093	61
65	80	1338	1703	1773	2197	2146	2615	2538	3056	2978	3554	69
	60	342	437	608	760	805	990	981	1194	1166	1407	30
	65	523	667	821	1023	1043	1279	1254	1521	1481	1782	37
	70	727	926	1046	1300	1295	1584	1544	1856	1817	2176	44
	75	944	1200	1280	1565	1559	1898	1846	2224	2167	2599	51
	80	1167	1478	1516	1874	1827	2219	2156	2589	2527	3009	58
70	65	444	561	690	841	655	1043	1026	1236	1210	1449	30
	70	622	766	876	1092	1078	1311	1281	1542	1506	1798	36
	75	812	1026	1083	1334	1311	1591	1550	1961	1818	2166	43
	80	1010	1272	1296	1593	1554	1880	1630	2191	2143	2545	49
	70	528	670	914	1119	886	1082	1062	1271	1247	1483	30
	75	695					1330	1301	1555	1525	1810	36
76	80	870	1068	1105	1350	1320	1590	1553	1852	1817	2152	42
	75	592	734	770	936	926	1111	1091	1298	1276	1511	30
	80	727	926	940	1142	1120	1343	1317	1564	1540	1817	35
	80	639	705	799	964	951	1133	1116	1320	1305	1534	30

TABLE 31.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V101,V100) AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA SQ. FT.
		50		60		70		80		90		
		I.E.	O.B.	I.E.	O.B.	I.E.	O.B.	I.E.	O.B.	I.E.	O.B.	
YEARS		40 SQ. FT. INITIAL BASAL AREA										
20	20	0	6	1	1	34	8	23	32	64	88	40
	25	3	1	1	1	34	8	110	146	265	353	64
	30	10	134	7	9	258	109	332	143	406	665	88
	35	54	32	150	191	500	636	1140	1447	2009	2542	110
	40	103	131	207	250	1232	1465	1835	1617	2197	2859	131
	50									3052	3763	149
25	25	1	6	8	31	41	97	131	225	301	40	
	30	3	4	27	36	113	149	306	403	611	802	59
	35	12	15	80	104	287	373	674	875	1196	1544	79
	40	32	41	184	237	573	737	1190	1524	1921	2446	97
	45	71	32	356	456	972	1240	1814	2301	2724	3429	115
	50	140	181	608	775	1468	1859	2505	3149	3559	4438	131
30	55	250	320	943	1198	2036	2561	3226	4024	4394	5434	146
	30	3	4	25	33	101	134	261	345	495	650	40
	35		46	81	106	275	353	604	787	1006	1301	56
	40		109	207	255	566	735	1088	1400	1647	2100	72
	45			308	386	505	974	1250	1669	2124	2359	88
	50		219	672	664	1466	1867	2302	2902	3101	3871	103
35	55		393	1037	1326	2012	2544	2955	3695	3847	4762	117
	60		643	1469	1870	2583	3245	3607	4476	4578	5626	131
	35	12	15	74	97	239	313	498	649	792	1023	40
	40	36	47	189	246	512	665	921	1185	1332	1696	54
	45	88	115	387	503	891	1146	1432	1822	1943	2447	68
	50	184	240	674	871	1346	1718	1991	2510	2591	3231	81
40	55	335	437	1038	1334	1845	2336	2570	3213	3251	4021	95
	60	552	717	1458	1863	2361	2970	3151	3911	3908	4799	107
	65	834	1080	1911	2428	2878	3597	3723	4590	4552	5555	119
	40	34	44	169	221	434	563	744	955	1043	1325	40
	45	87	114	358	465	770	930	1179	1498	1558	1957	52
	50	186	243	631	816	1173	1496	1663	2093	2116	2634	64
45	55	344	450	974	1252	1616	2045	2171	2711	2696	3330	76
	60	569	742	1363	1743	2076	2609	2688	3332	3264	4028	88
	65	855	1112	1777	2260	2538	3169	3203	3944	3869	4716	100
	70	1191	1544	2198	2779	2994	3716	3709	4541	4444	5388	110
	45	80	105	314	407	641	821	949	1201	1231	1541	40
	50	177	232	562	726	990	1260	1362	1709	1707	2119	51
50	55	334	437	673	1122	1377	1739	1804	2247	2213	2728	62
	60	555	725	1225	1565	1833	2236	2261	2798	2736	3350	72
	65	833	1084	1597	2028	2195	2736	2724	3349	3265	3973	83
	70	1152	1494	1974	2494	2605	3229	3184	3894	3732	4591	93
	75	1486	1931	2349	2951	3010	3710	3639	4427	4313	5196	103
	55	50	162	212	465	624	819	1037	1102	1378	1367	1691	40
55		311	406	760	974	1153	1452	1485	1843	1806	2220	50
60		520	673	1072	1366	1509	1838	1887	2329	2268	2770	59
65		780	1014	1403	1777	1875	2332	2301	2823	2743	3332	69
70		1076	1392	1740	2193	2245	2776	2719	3318	3224	3896	79
75		1380	1792	2077	2604	2614	3216	3136	3809	3704	4457	88
60	80	1710	2194	2409	3005	2377	3646	3550	4292	4181	5008	97
	55	260	364	648	326	955	1197	1214	1502	1468	1798	40
	60	473	614	922	1169	1266	1578	1567	1927	1874	2263	49
	65	711	921	1214	1533	1591	1972	1936	2368	2299	2767	58
	70	979	1264	1515	1903	1923	2372	2314	2317	2735	3299	66
	75	1263	1624	1818	2273	2258	2772	2696	3267	3176	3815	75
65	80	1552	1986	2120	2636	2592	3168	3078	3715	3618	4327	84
	60	420	542	783	986	1056	1310	1297	1589	1546	1877	40
	65	634	817	1040	1307	1343	1658	1624	1981	1924	2325	48
	70	875	1125	1308	1637	1640	2017	1964	2385	2317	2789	56
	75	1131	1448	1581	1970	1944	2330	2312	2797	2720	3260	64
	80	1391	1773	1855	2302	2251	2745	2664	3210	3127	3735	72
70	65	557	713	885	1106	1129	1389	1360	1653	1608	1938	40
	70	772	987	1123	1399	1396	1709	1655	2016	1961	2354	47
	75	1001	1275	1363	1693	1671	2039	1961	2390	2327	2764	55
	80	1235	1568	1618	2000	1951	2373	2304	2770	2702	3220	62
75	70	674	856	960	1190	1165	1445	1410	1701	1659	1985	40
	75	878	1113	1180	1458	1433	1743	1696	2040	1990	2375	47
	80	1069	1375	1407	1732	1689	2048	1991	2388	2333	2775	54
80	75	767	965	1016	1249	1461	1487	1451	1739	1702	2024	40
	80	956	1200	1221	1497	1765	1720	2056	2014	2389	2889	46
80	80	835	1042	1058	1291	1263	1520	1485	1770	1738	2056	40

TABLE 32.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V101, V100) AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX											
INITIAL AGE	FINAL AGE	50		60		70		80		90		PROJECTED BASAL AREA	
YEARS		I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	SO. FT.	
50 SQ. FT. INITIAL BASAL AREA													
20	20		0	1	1			25	34	70	95	50	
	25	1	1	6	9	33	44	109	145	268	355	77	
	30	3	4	23	30	102	133	297	386	652	846	102	
	35	9	11	61	79	236	302	614	705	1223	1563	126	
	40	22	28	132	167	452	572	1067	1348	1953	2461	146	
	45	46	59	248	312	764	958	1645	2058	2796	3488	165	
50	89	112	422	527	1177	1464	2327	2887	3711	4556	181		
25	25	1	1	7	9	33	44	105	141	248	332	50	
	30	3	4	27	35	114	149	315	414	649	850	72	
	35	11	14	76	98	279	361	679	878	1250	1610	92	
	40	29	37	170	219	549	703	1190	1520	1997	2538	112	
	45	64	82	326	415	929	1180	1817	2297	2831	3558	130	
	50	124	158	555	703	1410	1777	2521	3160	3704	4611	146	
55	219	279	865	1090	1971	2469	3266	4063	4581	5657	161		
30	30	12	16	27	35	106	135	285	382	564	741	50	
	35	34	44	81	104	261	332	651	847	1122	1449	68	
	40	77	100	182	240	579	747	1159	1488	1814	2312	86	
	45	154	199	364	485	1186	1548	2439	3071	3376	4213	102	
	50	275	355	644	825	2049	2646	4137	5193	5704	7163	118	
	55	452	580	1020	1307	3317	4243	6704	8443	9417	11631	133	
35	35	12	16	27	35	106	135	285	382	564	741	50	
	40	36	47	79	104	261	332	651	847	1122	1449	68	
	45	86	112	182	240	579	747	1159	1488	1814	2312	86	
	50	175	228	363	485	1186	1548	2439	3071	3376	4213	102	
	55	317	411	679	875	2143	2743	4243	5193	5704	7163	118	
	60	521	674	1078	1394	3457	4421	6817	8543	9417	11631	133	
40	40	36	47	79	104	261	332	651	847	1122	1449	68	
	45	88	116	182	240	579	747	1159	1488	1814	2312	86	
	50	185	242	367	485	1186	1548	2439	3071	3376	4213	102	
	55	340	443	679	875	2143	2743	4243	5193	5704	7163	118	
	60	559	728	1078	1394	3457	4421	6817	8543	9417	11631	133	
	65	844	1095	1685	2143	5193	6617	10243	12817	14417	17817	146	
45	45	185	242	367	485	1186	1548	2439	3071	3376	4213	102	
	50	344	450	679	875	2143	2743	4243	5193	5704	7163	118	
	55	569	742	1078	1394	3457	4421	6817	8543	9417	11631	133	
	60	855	1111	1752	2227	5193	6617	10243	12817	14417	17817	146	
	65	1189	1541	2166	2738	6817	8543	12817	16043	18171	22222	165	
	70	1554	2006	2576	3239	9487	11817	17817	22222	25504	31111	181	
50	50	177	231	367	485	1186	1548	2439	3071	3376	4213	102	
	55	333	436	679	875	2143	2743	4243	5193	5704	7163	118	
	60	554	723	1078	1394	3457	4421	6817	8543	9417	11631	133	
	65	831	1081	1535	1951	4817	6043	9043	11171	12504	15333	146	
	70	1149	1489	2143	2743	6817	8543	12817	16043	18171	22222	165	
	75	1491	1924	2633	3370	9487	11817	17817	22222	25504	31111	181	
55	55	312	407	620	799	1957	2461	3704	4581	6817	8543	102	
	60	522	680	1077	1373	3457	4421	6817	8543	10781	13222	133	
	65	783	1017	1409	1706	4243	5193	7704	9417	10781	13222	133	
	70	1079	1397	1749	2203	5193	6617	9487	11817	13222	16043	146	
	75	1394	1797	2207	2616	6617	8171	11817	14435	16043	19571	165	
	80	1716	2201	2820	3419	8171	9987	14435	17817	20491	24441	181	
60	60	479	633	941	1194	2957	3661	5481	6704	9487	11817	133	
	65	720	933	1398	1742	4243	5193	7704	9417	10781	13222	133	
	70	992	1291	1843	2297	5193	6617	9487	11817	13222	16043	146	
	75	1280	1646	2297	2820	6617	8171	11817	14435	16043	19571	165	
	80	1573	2014	2556	3200	8171	9987	14435	17817	20491	24441	181	
	65	65	651	859	1277	1556	3704	4581	6817	8543	10781	13222	133
70		899	1160	1687	2049	4817	5943	8704	10781	12504	15333	146	
75		1160	1487	2049	2522	5943	7243	10781	13222	15333	18441	165	
80		1427	1821	2522	3119	7243	8817	12504	15333	18441	22222	181	
70		70	BOY	1030	1179	1471	1489	1802	1755	2127	2068	2485	50
		75	1041	1329	1433	1781	1754	2142	2081	2513	2446	2927	58
	80	1283	1632	1690	2092	2042	2486	2413	2903	2831	3376	65	
	75	75	928			1553	1527					2536	50
		80	1148	1178	1453	1553	1793	2176	2160	2165	2188	2539	57
		80	80	1021	1287	1312	1612	1573	1903	1853	2218	2170	2578	50

TABLE 33.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V101,V100) AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS of LONGLEAF PINE

		SITE INDEX										PROJECTED BASAL AREA	
INITIAL AGE	FINAL AGE	50		60		70		80		90		SQ. FT.	
YEARS		I.B.	O.B.	I.B.	O.B.	I.E.	O.B.	I.E.	O.B.	I.E.	O.B.		
60 sq. ft. INITIAL BASAL AREA													
20	20			1	1	7	9	26		72	98	60	
	25			21	28	94	42	106		262	346	89	
	30			55	70	213	271 122	279 151		722 359	1161 623	116	
	35										1478 806	139	
	40			117	147	405	511	956	1236	1861	2336	160	
	45			218	273	683	857	1529	1902	2686	3336	179	
50			372	462	1066	1319	2184	2695	3597	4431	195		
25	25			1								60	
	30			26	34	111 34	145 46	314 105	411 146	582 204	749 267	63	
	35			71	91	265	342	665	856	1264	1623	105	
	40			156	199	516	659	1159	1475	2015	2554	125	
	45			295	375	672	1101	1775	2235	2663	3589	144	
	50			503	633	1329	1668	2479	3096	3760	4671	160	
55			786	936	1875	2339	3236	4013	4670	5756	175		
30	30			3	4	27	36	113	149	307	404	60	
	35			15	80	104	266	372	675	876	1200	79	
	40			41			572	735	1191	1525	1926	96	
	45			92			970	1238	1816	2302	2732	116	
	50			180			1466	1656	2509	3152	3569	132	
	55			318			2034	2558	3230	4029	4406	147	
60			520			2646	3308	3957	4900	5223	160		
35	35			12	16	81	106	290	365	622	610	60	
	40			35				574	743	1116	1435	77	
	45			82				992	1259	1708	2173	93	
	50			164				1478	1691	2355	2968	108	
	55			294				2031	2566	3022	3776	123	
	60			463				2612	3279	3698	4577	136	
65			736				3199	3992	4337	5328	149		
40	40			36	47	193	252	537	696	986	1269	60	
	45			97				926	1194	1524	1940	75	
	50			180				1399	1765	2111	2662	89	
	55			326				1917	2427	2717	3396	103	
	60			536				2454	3086	3324	4126	116	
	65			612				2993	3739	3918	4632	126	
70			1148				3520	4372	4493	5509	139		
45	45			88	116	376	469	838	1079	1314	1671	60	
	50			166				1270	1621	1838	2316	73	
	55			342				1743	2208	2384	2980	86	
	60			564				2233	2606	2935	3641	98	
	65			850				2725	3404	3480	4289	110	
	70			1190				3207	3993	4012	4916	121	
75			1569				3675	4539	4528	5518	132		
50	50			184	241	613	792	1120	1428	1572	1977	60	
	55			343				1546	1956	2061	2571	72	
	60			569				1990	2500	2560	3171	83	
	65			853				2437	3042	3059	3765	94	
	70			1195				2880	3573	3551	4347	105	
	75			1547				3312	4067	4033	4911	116	
80			1924				3731	4581	4501	5155	125		
55	55			332	434	860	1105	1349	1704	1764	2196	60	
	60			552				1749	2193	2214	2736	71	
	65			629				2155	2686	2670	3283	81	
	70			1145				2561	3173	3126	3821	91	
	75			1485				2961	3649	3576	4349	101	
	80			1834				3352	4111	4017	4963	111	
60	60			523	681	1060	1376	1523	1905	1905	2351	60	
	65			784				1891	2352	2322	2849	70	
	70			1060				2263	2799	2742	3347	79	
	75			1396				2633	3240	3161	3840	89	
	80			1719				2999	3672	3576	4324	98	
	65	65			727	943	1255	1596	1651	2048	2012	2464	60
70				1002				1966	1991	2458	2399	2923	69
75				1293				2345	2334	2666	2789	3362	78
80				1588				2675	3270	3178	3939	87	
70		70			917	1180	1387	1739	1747	2151	2096	2548	60
		75			1183				2063	2529	2457	2974	68
	80			1454				2381	2906	2621	3401	77	
	75	75			1073	1372	11186	1848	1821	2226	2163	2613	60
		80			1322				2116	2577	2502	3011	68
		80	80			1195	1515	1559	1926	1879	2203	2218	2664	60

TABLE 34.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V101,V100) AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL		FINAL		SITE INDEX										PROJECTED	
AGE	AGE			50		60		70		80		90		BASAL AREA	
YEARS		I	I.B.	O.B.	I.E.	O.E.	I.E.	O.E.	I.B.	O.B.	I.B.	O.B.	I	SO. FT.	
70 SD. FT. INITIAL BASAL AREA															
20	20		0	0	1	1	7	9	26	34	72	98		70	
	25		1	1	6	8	30	39	100	131	252	331		101	
	30		2	3	19	25	85	111	257	330	587	755		126	
	35		7	9	49	62	192	243	520	639	1090	1379		152	
	40		17	21	103	129	364	456	903	1129	1751	2188		173	
	45		35	44	192	239	618	766	1410	1746	2548	3151		191	
50		67	84	329	405	955	1187	2034	2499	3446	4228		207		
25	25		1	1	7	9	34	45	110	146	268	356		70	
	30		3	4	25	32	106	138	306	398	662	861		95	
	35		9	12	65	84	249	318	638	616	1246	1597		117	
	40		23	30	141	180	478	607	1109	1404	1969	2513		138	
	45		50	64	266	336	808	1016	1704	2137	2936	3548		157	
	50		95	122	453	568	1240	1548	2337	2983	3749	4645		173	
55		170	215	712	893	1764	2190	3157	3901	4663	5759		191		
30	30		3	4	27	35	114	150	315	413	646	846		70	
	35		11	14	77	99	280	363	660	879	1246	1605		91	
	40		29	38	172	221	553	708	1192	1523	1991	2531		110	
	45		65	83	330	421	935	1188	1819	2301	2822	3548		128	
	50		126	161	562	713	1419	1789	2523	3163	3691	4596		144	
	55		223	284	875	1104	1822	2454	3266	4064	4563	5637		159	
60		366	465	1268	1593	2232	2940	4019	4969	5416	6644		173		
35	35		12	16	61	81	286	373	657	854	1130	1470		70	
	40		33	44	161	207	579	747	1167	1498	1989	2542		88	
	45		76	99	373	479	985	1260	1781	2263	2612	3291		105	
	50		152	196	638	816	1485	1885	2455	3091	3415	4262		121	
	55		271	348	937	1256	2050	2594	3155	3939	4219	5221		135	
	60		444	570	1411	1787	2650	3321	3654	4778	5004	6147		149	
65		679	870	1893	2387	3263	4065	4536	5539	5760	7031		161		
40	40		36	47	182	235	564	720	1072	1378	1612	1985		70	
	45		84	110	402	517	1243	1565	2084	2633	3045	3800		86	
	50		171	222	676	869	1457	1855	2271	2853	3045	3800		101	
	55		306	399	1042	1333	1996	2529	2916	3646	3780	4679		115	
	60		505	654	1474	1876	2564	3133	3222	3959	4007	4984		126	
	65		765	991	1950	2471	3364	4082	4187	5061	4580	5534		140	
70		1095	1408	2451	3091	3691	4582	4792	5875	5878	7136		152		
45	45		66	115	389	505	904	1163	1463	1862	1994	2512		70	
	50		182	236	677	874	1365	1742	2032	2562	2653	3310		84	
	55		333	433	1042	1338	1870	2366	2620	3276	3324	4112		97	
	60		547	711	1465	1671	2394	3011	3210	3984	3990	4901		110	
	65		627	1071	1922	2441	2918	3546	3769	4672	4642	5665		122	
	70		1165	1566	2392	3023	3432	4263	4351	5334	5274	6400		134	
75		1550	1956	2851	3598	3928	4852	4892	5965	5883	7103		144		
50	50		186	244	650	841	1238	1580	1780	2242	2231	2841		70	
	55		344	449	1003	1289	1702	2155	2313	2890	2889	3570		83	
	60		567	738	1404	1796	2182	2743	2852	3536	3501	4296		95	
	65		853	1109	1833	2331	2663	3327	3387	4173	4107	5009		106	
	70		1192	1544	2270	2871	3137	3695	3910	4790	4700	5700		117	
	75		1568	2023	2703	3400	3597	4441	4418	5384	5277	6367		128	
80		1964	2524	3124	3910	4040	4963	4909	5952	5834	7007		138		
55	55		342	448	936	1204	1519	1921	2018	2518	2492	3076		70	
	60		567	739	1311	1676	1956	2457	2510	3109	3053	3742		81	
	65		851	1107	1708	2171	2398	2932	3003	3697	3615	4404		92	
	70		1161	1531	2111	2668	2835	3517	3491	4272	4171	5054		103	
	75		1541	1990	2510	3156	3263	4025	3958	4831	4716	5686		113	
	80		1914	2460	2899	3626	3678	4515	4432	5371	5247	6298		123	
60	60		551	719	1200	1532	1735	2176	2135	2714	2652	3246		70	
	65		826	1074	1564	1986	2139	2666	2649	3256	3172	3859		80	
	70		1141	1480	1935	2443	2543	3150	3102	3792	3691	4466		91	
	75		1480	1911	2304	2893	2941	3624	3550	4318	4205	5065		101	
	80		1828	2349	2664	3326	3330	4084	3990	4830	4710	5648		110	
	65	65		1082	1020	1416	1794	1896	2359	2328	2857	2776	3373		70
70			1398	1401	1802	2086	2086	2640	2748	3169	3055	3744		80	
75			1721	2206	2430	3032	3005	3681	3584	4334	4222	5056		89	
80			1721	2206	2430	3032	3005	3681	3584	4334	4222	5056		98	
70			1010	1305	1582	1989	2017	2490	2431	2962	2876	3472		70	
75			1303	1677	1895	2372	2362	2902	2824	3425	3329	4001		79	
80		1602	2051	2206	2747	2705	3308	3215	3883	3781	4525		88		
75	75		1203	1543	1707	2130	2109	2586	2513	3043	2958	3550		70	
	80		1478	1888	1995	2480	2430	2967	2881	3475	3384	4045		78	
	60		1355	1727	1800	2232	2161	2658	2580	3107	3027	3614		70	
	65		1082	1020	1416	1794	1896	2359	2328	2857	2776	3373		70	

TABLE 35.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V101,V100) AND
TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA SQ. FT.	
		50		60		70		80		90			
		I.B.	O.B.	I.B.	O.B.	I.E.	O.B.	I.E.	O.B.	I.B.	O.B.		
80 SD. FT. INITIAL BASAL AREA													
20	20	0	1	0	5	1	28	36	9425	33	238	311	80
	25	2	3	18	22	1798	100	21	474	585	546	699	112
	30	6	8	44	55	3273	217	407	824	1025	1811	33	140
	35	15	39	18	91	114					1633	282	164
	40	59	74	292	171	211	360	556	686	1295	1805	2305	185
	45	1	1	6	8						2397	3275	203
25	25	3	3	23	30	10033	130	43	293	109	379	144	60
	30	8	1127	60	76	7	230	294	603	769	1209	1543	106
	35	21	56	128	162	7	440	556	1046	1320	1931	2432	129
	40	45	240		301	1147	44	931	1616	2018	2771	3453	150
	45	85	108	406	509		1425	2291	2639	3666	4553	5685	169
	50	151	189	644	800	1647	2035	3045	3749	4636	5685		185
30	30	3	4	26	34	112	147	315	413	662	865	80	
	35	10	13	72	93	269	348	670	864	1263	1624	102	
	40	58	34304	150	2	0	5	526	671	1170	1490	2015	122
	45	113	144	7	517	30	653	336	888	1124	1790	2257	140
	50								1353	1700	2495	3119	156
	55	200	254	808	1015	1905	2378	3250	4034	4653	5739		171
35	60	329	416	1179	1475	2521	3130	4025	4965	5539	6785	165	
	35	12	15	80	104	286	372	676	876	1203	1552	80	
	40	32	41	183	236	571	735	1191	1526	1931	2458	99	
	45	71	91	353	453	969	1235	1817	2304	2737	3446	116	
	50	139	179	603	769	1464	1853	2510	3154	3576	4459	132	
	55	247	316	937	1187	2032	2555	3234	4032	4415	5460	147	
40	60	405	518	1347	1700	2845	3306	3961	4906	5234	6427	161	
	65	623	794	1923	2291	3277	4074	4675	5753	6022	7348	174	
	40	35	45	194	252	577	746	1134	1457	1750	2231	80	
	45	80	104	383	494	985	1263	1734	2205	2495	3145	96	
	50	160	208	658	844	1483	1887	2390	3011	3270	4081	112	
	55	267	371	1017	1297	2041	2577	3067	3833	4045	5007	126	
45	60	472	607	1446	1836	2629	3298	3743	4644	4804	5903	140	
	65	720	924	1928	2438	3224	4021	4403	5427	5536	6760	153	
	70	1032	1322	2442	3073	3810	4726	5037	6174	6237	7572	164	
	45	86	112	393	509	950	1222	1587	2020	2206	2780	80	
	50	176	229	680	876	1431	1825	2194	2766	2913	3635	95	
	55	318	413	1047	1342	1962	2483	2820	3526	3626	4498	109	
50	60	522	676	1478	1884	2514	3160	3445	4276	4330	5320	122	
	65	792	1023	1949	2472	3068	3632	4056	5002	5011	6121	134	
	70	1124	1448	2440	3030	3610	4483	4646	5696	5673	6887	146	
	75	1508	1937	2934	3685	4134	5106	5211	6355	6305	7614	156	
	50	184	240	672	868	1334	1703	1965	2478	2553	3183	80	
	55	337	439	1035	1330	1829	2316	2539	3175		3966	93	
55	60	554	721	1453	1857	2341	2944	3116	3666	3858	4730	106	
	65	837	1095	1903	2419	2854	3566	3683	4541	4498	5489	118	
	70	1177	1521	2365	2990	3356	4169	4234	5190	5120	6212	129	
	75	1560	2010	2825	3552	3842	4746	4766	5811	5720	6905	140	
	80	1970	2529	3272	4095	4309	5296	5277	6402	6297	7566	150	
	60	55	344	450	992	1275	1668	2111	2256	2818	2811	3473	60
60		568	740	1389	1776	2140	2690	2786	3455	3413	4187	92	
65		855	1111	1811	2303	2613	3264	3313	4081	4010	4890	104	
70		1193	1545	2242	2835	3080	3923	3829	4690	4597	5574	115	
75		1566	2021	2669	3356	3533	4362	4331	5277	5167	6234	125	
80		1970	2517	3083	3858	3971	4876	4816	5840	5720	6869	135	
65	60	566	738	1299	1660	1931	2424	2472	3062	3005	3682	80	
	65	849	1105	1692	2150	2368	2954	2961	3644	3562	4338	91	
	70	1178	1527	2091	2643	2801	3474	3444	4215	4113	4983	102	
	75	1535	1983	2407	3126	3225	3978	3918	4770	4655	5612	112	
	80	1905	2449	2872	3592	3637	4464	4380	5306	5183	6220	122	
	65	65	824	1073	1558	1978	2129	2652	2635	3239	3154	3838	80
70		1139	1477	1928	2434	2531	3136	3087	3773	3672	4445	90	
75		1477	1907	2295	2882	2928	3606	3534	4298	4185	5041	100	
80		1824	2343	2654	3315	3317	4067	3972	4809	4689	5623	110	
70	70	1084	1403	1762	2221	2277	2817	2760	3369	3274	3957	80	
	75	1401	1806	2103	2636	2649	3260	3181	3564	3758	4522	89	
	80	1724	2213	2438	3041	3015	3693	3597	4350	4237	5077	99	
	75	1314	1690	1916	2776	2390	2937	2859	3466	3371	4051	80	
75	80	1614	2068	2229		2736	3346	3253	3929	3826	4579	89	
	80	1500	1918	2032	2526	2478	3026	2939	3545	3453	4128	80	

TABLE 35.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V101,V100) AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL		FINAL	SITE INDEX										PROJECTED	
AGE	AGE	AGE	INDEX										BASAL AREA	
YEARS			1.8.	0.8.	1.E.	0.6.	1.6.	0.6.	1.8.	0.8.	1.E.	0.8.	sa.	FT.
90 SQ. FT. INITIAL BASAL AREA														
20	20	0	0	1	5	1	6	8	24	113.32	222	92	90	
	25	0	1	6	16	20	71	90	87		289	123		
	30	2	2	16	20	155	194	215	274	504	642	151		
	35	5	7	39	49			430	539	932	1169	176		
	40	13	16	81	101	293	363	750	928	1514	1875	196		
	50	27	34									214		
25	50	52	65	201 152	320 187	500 791	614 964	1185 1742	2121 1454	221 389	2740 3794	229		
	25	2	1	6	8	32	42	105	138	262	345	90		
	30	8	3	21	27	94	121	276 581	716 357	1155 620	1470 801	117		
	35	10	10	54	69	211	263					141		
	40	40	50	115	145	402	505	978	1228	1851	2323	162		
	50	76	95	363	458	1056	1306	2178 1519	2578 1446	2673 3594	4413 3320	180		
30	55	134	160	563	720	1529	1881	2911	3570	4544	5557	196		
	30	16	4	25	33	109	141	310	404	665	866	90		
	35	24	31	68	87	255	329	650	1436 635	2044 1257	2536 1512	112		
	40	53	67	147	188	494	628	1131				133		
	45	101	129	278	352	835	1052	1736	2181 3034	2854 3761	4465 3573	151		
	50	179	226	473	594	1277	1598	2434				168		
35	55	295	372	1091	1358	2419	2393	3984	4902	5501	6849	183		
	60											196		
	35	11	14	77	100	281	364	680	880	1244	1607	90		
	40	65	84	173	222	554	710	1193	1524	1988	2528	109		
	45	127	162	331	421	1422 938	1192 1794	2523 1820	3201 3164	2818 3885	4530 3543	127		
	50											144		
40	55	224	286	879	1109	1935	2469	3265	4064	4555	5628	159		
	60	366	469	1273	1600	2603	3245	4017	4957	5407	6633	172		
	65	569	721	1737	2175	3250	4031	4759	5849	6226	7590	185		
	40	33	43	189	245	578	746	1174	1506	1859	2369	90		
	45	75	97	369	474	983	1257	1791	2275	2641	3327	107		
	50	149	192	632	807	1483	1822	2470	3108	3452	4307	123		
45	55	266	342	978	1243	2049	2582	3175	3963	4263	5275	138		
	60	436	559	1400	1771	2653	3322	3880	4810	5055	6210	151		
	65	668	854	1881	2370	3270	4072	4569	5628	5818	7101	164		
	70	964	1231	2401	3015	3891	4808	5231	6408	6545	7943	176		
	45	83	108	389	503	977	1254	1685	2144	2391	3014	90		
	50	167	216	670	861	1471	1873	2324	2929	3141	3921	105		
50	55	300	388	1033	1321	2020	2554	2983	3729	3993	4819	120		
	60	492	635	1465	1864	2586	3259	3640	4517	4631	5691	133		
	65	750	965	1945	2462	3176	3963	4281	5278	5345	6527	145		
	70	1071	1375	2451	3089	3745	4648	4898	6004	6030	7321	157		
	75	1448	1855	2966	3721	4295	5303	5487	6691	6683	8071	168		
	50	179	233	680	877	1406	1794	2128	2683	2800	3500	90		
55	55	325	422	1048	1344	1926	2439	2738	3424	3500	4331	104		
	60	530	692	1476	1883	2467	3102	3348	4156	4187	5145	117		
	65	809	1045	1924	2464	3008	3755	3946	4866	4858	5931	129		
	70	1100	1475	2428	3062	3539	4395	4524	5546	5506	6663	141		
	75	1529	1965	3655	4050	4503	5079	5079	6194	6128	7400	151		
	80	1947	2495	3380	4228	4539	5580	5609	6807	6723	8079	162		
60	55	339	403	1028	1321	1794	2272	2474	3093	3114	3851	90		
	60	559	727	1442	1842	2297	2883	3040	3772	3754	4609	102		
	65	844	1094	1836	2397	2800	3499	3598	4035	4384	5349	114		
	70	1184	1531	2341	2959	3294	4092	4141	5075	4997	6063	126		
	75	1565	2018	2792	3512	3773	4660	4666	5688	5591	6748	136		
	80	1971	2532	3232	4045	4232	5201	5171	6272	6162	7403	147		
65	60	569	741	1376	1759	2107	2648	2735	3391	3346	4105	90		
	65	855	1112	1794	2281	2575	3215	3256	4011	3937	4800	101		
	70	1193	1545	2220	2807	3036	3768	3767	4613	4518	5477	112		
	75	1564	2018	2601	3322	3484	4301	4264	5195	5084	6133	123		
	80	1952	2509	3051	3818	3917	4812	4746	5754	5632	6763	133		
	65	848	1103	1681	2136	2346	2927	2931	3607	3524	4293	90		
70	70	1175	1524	2077	2625	2777	3444	3412	4175	4073	4934	101		
	75	1531	1977	2470	3105	3198	3945	3883	4727	4612	5560	111		
	80	1899	2441	2853	3563	3608	4429	4343	5262	5138	6166	121		
	70	1138	1476	1925	2430	2527	3130	3081	3766	3665	4436	90		
	75	1476	1905	2292	2877	2923	3602	3528	4290	4178	5032	100		
	80	1822	2341	2650	3311	3311	4061	3966	4801	4681	5613	109		
75	75	1405	1812	2113	2649	2663	3278	3199	3886	3780	4548	90		
	80	1730	2220	2449	3055	3031	3713	3616	4373	4260	5104	99		
60	80	1628	2066	2254	2808	2769	3388	3290	3979	3875	4638	90		

TABLE 37.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V101,V100) AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED		
INITIAL AGE	FINAL AGE	50		60		70		80		90		BASAL AREA		
YEARS		I.E.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	SQ. FT.		
100 SQ. FT. INITIAL BASAL AREA														
20	20	0	0	1	1	6	8	23	30	65	87		100	
	25	0	1	5	6	24	30	80	103	206	267		134	
	30	2	2	14	18	64	81	195	247	462	587		162	
	35	5	6	35	43	139	173	389	486	856	1068		174	
	40	11	14	72	90	263	324	681	839	1397	1723		207	
	45	24	30	136	166	451	551	1095	1324	2087	2547		224	
50	47	58	234	286	718	871	1608	1948	2910	3526		239		
25	25	1	1	6	8	30	39	100	132	252	332		100	
	30	2	3	20	25	87	111	258	332	589	757		127	
	35	7	9	49	62	193	244	522	661	1093	1384		152	
	40	17	21	104	130	366	458	907	1134	1757	2196		173	
	45	35	44	194	241	621	771	1416	1753	2555	3160		191	
	50	68	85	331	409	969	1193	2041	2508	3454	4238		207	
55	120	149	527	649	1415	1732	2764	3377	4417	5395		221		
30	30	9	11	63	80	2404	3013	622 300	795 350	1232 655	1574 851		100	
	35	22	28	135	171	460	582	1080	1365	1965	2479		123	
	40	47	60	283	335	1005	1246	2308	2836	3724	4508		162	
	45	83	105	405	495	1508	1846	3049	3724	4857	5932		179	
	50	161	202	679	845	1709	2116	3107	3833	4667	5732		194	
	60							3906	4792	5508	6845		207	
35	35	10	14	73	94	271	350	673	868	1262	1623		100	
	40	27	35	162	207	530	677	1175	1497	2014	2555		120	
	45	59	76	309	391	995	1135	1796	2266	2659	3587		138	
	50	115	147	524	662	1384	1715	2502	3129	3740	4658		155	
	55	203	259	818	1028	1918	2358	355	404	4970	4643	5729		170
	60	517	654	1642	2043	3182	3944	4754	5332	5525	6769		183	
65									6374	7763		196		
40	40	31	41	182	234	559	732	1193	1527	1940	2469		100	
	45	70	90	351	449	966	1231	1819	2306	2750	3461		118	
	50	137	177	559	762	1460	1817	2513	3158	3592	4479		134	
	55	244	312	930	1178	2028	2549	3240	4039	4435	5485		149	
	60	401	511	1339	1674	2841	3301	3971	4917	5259	6456		162	
	65	616	784	1813	2270	3276	4071	4638	5769	6051	7382		175	
70	695	1139	2336	2924	3910	4835	5379	6592	6804	8254		174		
45	45	79	102	379	488	986	1263	1757	2233	2549	3212		100	
	50	157	202	650	833	1486	1888	2421	3049	3336	4164		116	
	55	286	361	1005	1281	2047	2583	3109	3984	4124	5104		130	
	60	460	591	1432	1817	2641	3312	3795	4707	4894	6014		144	
	65	702	900	1915	2418	3244	4044	4464	5502	5637	6882		156	
	70	1010	1292	2431	3058	3839	4760	5108	6260	6347	7704		168	
75	1377	1759	2563	3711	4415	5447	5722	6975	7021	8478		179		
50	50	171	223	676	870	1455	1854	2264	2854	3033	3786		100	
	55	309	400	1042	1334	1995	2524	2907	3635	3766	4662		114	
	60	508	655	1474	1677	2560	3217	3549	4405	4488	5515		127	
	65	771	994	1951	2473	3090	3710	4175	5149	5187	6334		140	
	70	1098	1412	2450	3080	3684	4574	4779	5859	5860	7114		152	
	75	1479	1897	2955	3710	4221	5213	5357	6532	6502	7953		162	
80	1901	2432	3451	4313	4733	5817	5906	7168	7114	8551		173		
55	55	330	429	1045	1342	1895	2400	2671	3340	3399	4206		100	
	60	542	703	1471	1877	2226	3051	3269	4058	4074	5005		113	
	65	820	1061	1931	2453	2958	3696	3857	4756	4739	5779		125	
	70	1157	1494	2407	3042	3478	4320	4426	5425	5373	6521		137	
	75	1542	1984	2863	3624	3981	4918	4973	6063	5988	7229		147	
	80	1958	2511	3346	4187	4462	5485	5496	6669	6576	7903		158	
60	60	562	731	1431	1630	2262	2844	2981	3699	3674	4511		100	
	65	847	1100	1871	2376	2758	3416	3532	4353	4297	5242		112	
	70	1188	1537	2320	2911	3246	4031	4069	4986	4904	5949		123	
	75	1568	2021	2766	3473	3718	4593	4589	5593	5492	6629		134	
	80	1971	2531	3200	4004	4173	5128	5089	6172	6059	7279		144	
	65	65	855	1112	1781	2265	2547	3180	3215	3960	3885	4736		100
70		1192	1544	2203	2786	3004	3720	3722	4556	4462	5409		111	
75		1561	2015	2621	3296	3449	4258	4217	5137	5025	6061		121	
80		1947	2503	3027	3774	3879	4765	4695	5692	5570	6661		131	
70	70	1174	1522	2069	2615	2763	3426	3393	4152	4050	4906		100	
	75	1529	1974	2461	3093	3183	3926	3663	4703	4574	5530		110	
	80	1895	2437	2842	3554	3592	4408	4322	5236	5113	6135		120	
75	75	1477	1906	2294	2880	2927	3607	3532	4242	4183	5038		100	
	80	1824	2313	2653	3314	3315	4065	3971	4807	4687	5620		110	
80	80	1738	2230	2465	3076	3053	3740	3643	4407	4293	5144		100	

TABLE 38.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME(V101,V100) AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED BASAL AREA	
INITIAL AGE	FINAL AGE	50		60		70		80		90		INITIAL	SQ. FT.
YEARS		1.6.	0.6.	1.E.	0.B.	1.B.	0.B.	1.B.	0.B.	1.8.	0.B.		
110 SQ. FT. INITIAL BASAL AREA													
20	20	0	0	1	5	21	28	21	28	62	82	110	
	25	1	2			21	28	73	94	189	245	144	
	30	10	5	131	139	125	125	352 177	223 437	422 783	534 973	173	
	35	22	13	122 65	148 80	237 407	294 496	618 892	1285 759	1286 1937	2355 1579	197	
	40		27									217	
	45	42	51	211	256	652	788	1483	1789	2729	3293	234	
	50											249	
25	25	0	1	6	7	28	37	95	124	240	315	110	
	30	6	3	44	23	80	102	239	305	553	709	138	
	35	15	18 8	93	107 36	333 176	221 415	481 837 73	81 607	1067 1653	1025 2058	162	
	40	32	39									163	
	45	60	75	258 174	216 367	566 888	1088 699	1314 1910	2337 1620	23 3304	4040 2985	201	
	50											217	
	55	107	133	477	585	1305	1592	2612 3178		4265 5181		231	
30	30	3	2	22	29	98	126	287	371	637	825	110	
	35	8	10	59	74	223	264	588	749	1191	1517	134	
	40	20	54	123	155	425	536	1021	1285	1903	2393	155	
	45	43	103	230	289	720	899	1579	1969	2737	3406	173	
	50	62		392	488	1112	1379	2246	2773	3651	4505	189	
	55	144	181	620	768	1602	1975	2996	3683	4606	5643	204	
	60	239	293	923	1140	2178	2675	3798	4646	5570	6782	217	
35	35	10	13	69	88	259	333	655	843	1261	1617	110	
	40	25	32	150	192							130	
	45	54	69	284	359	582 847	1069 638	1141 1750	2201 1450	2004 2653	2544 3581	149	
	50	104	132	483	608	1295	1622	2451	3057	3763	4670	165	
	55	184	232	757	948	1834	2282	3210	3976	4683	5767	180	
	60	302	381	1111	1385	2444	3026	3997	4921	5592	6841	194	
	65	470	592	1542	1916	3102	3825	4787	5861	6471	7870	206	
40	40	29	38									110	
	45	65	83	338 172	201 401	553 935	1189 709	1192 1819	2301 1523	2822 1991	2531 3547	128	
	50	126	161	552	713	1419	1790	2523	3163	3690	4595	144	
	55	223	284	875	1105	1962	2484	3266	4064	4562	5636	159	
	60	366	466	1268	1594	2600	3240	4019	4969	5415	6643	173	
	65	565	717	1732	2168	3247	4027	4762	5853	6236	7602	186	
	70	827	1047	2251	2809	3901	4816	5480	6699	7016	8506	197	
45	45	74	95	364	468	980	1252	1802	2287	2675	3369	110	
	50	146	188	623	795	1479	1875	2486	3127	3496	4361	126	
	55	260	333	1333	1665	2046	2576	3197	3990	4316	5340	141	
	60	426	545	1853 39	1749	2653	3320	3910	4846	5117	6286	155	
	65	653	834		2346	3275	4076	4607	5674	5889	7186	167	
	70	945	1205	2385	2992	3894	4821	5278	6463	6623	8037	179	
	75	1300	1654	2929	3661	4495	5539	5916	7208	7318	8836	189	
50	50	162	210	662	849	1481	1884	2373	2990	3235	4038	110	
	55	291	376	1022	1304	2036	2572	3045	3806	4004	4956	124	
	60	478	615	1453	1845	2621	3289	3716	4610	4757	5845	138	
	65	728	936	1934	2446	3212	4007	4370	5387	5484	6696	151	
	70	1043	1337	2446	3079	3793	4706	4999	6128	6180	7503	162	
	75	1417	1812	2968	3721	4355	5375	5600	6828	6843	8264	173	
	80	1837	2345	3486	4353	4891	6008	6169	7486	7471	8980	183	
55	55	316	409	1046	1340	1971	2495	2844	3556	3664	4535	110	
	60	519	671	1477	1863	2527	3176	3473	4311	4372	5372	123	
	65	787	1016	1950	2473	3084	3852	4088	5042	5060	6178	136	
	70	1118	1439	2444	3084	3631	4508	4682	5740	5723	6947	147	
	75	1501	1927	2940	3693	4157	5135	5251	6403	6357	7677	158	
	80	1922	2450	3427	4285	4661	5728	5792	7029	6962	8368	168	
60	60	547	711	1465	1871	2393	3009	3208	3982	3997	4898	110	
	65	829	1072	1921	2441	2917	3645	3787	4670	4639	5662	122	
	70	1165	1506	2392	3023	3430	4261	4349	5331	5271	6397	134	
	75	1550	1996	2851	3597	3926	4850	4890	5962	5880	7099	144	
	80	1964	2520	3318	4152	4401	5410	5408	6562	6464	7767	155	
65	65	850	1103	1859	2363	2728	3408	3484	4234	4234	5165	110	
	70	1190	1540	2304	2914	3210	3987	4017	4922	4837	5867	121	
	75	1568	2023	2746	3454	3679	4543	4533	5524	5421	6542	132	
	80	1969	2530	3175	3974	4129	5074	5029	6100	5985	7189	142	
70	70	1191	1543	2193	2773	2934	3703	3695	4524	4427	5366	110	
	75	1559	2013	2608	3280	3427	4230	4187	5100	4987	6015	120	
	80	1944	2499	3013	3763	3855	4735	4664	5654	5531	6641	130	
75	75	1528	1973	2456	3089	3179	3921	3858	4696	4581	5521	110	
	80	1894	2435	2839	3550	3587	4402	4316	5228	5105	6126	120	
80	80	1827	2348	2662	3326	3328	4082	3987	4827	4707	5644	110	

TABLE 39.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME(V101,V100) AND
TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA SQ. FT.	
		50		60		70		80		90			
		I. B.	O. B.	I. B.	O. B.	I. B.	O. B.	I. B.	O. B.	I. B.	O. B.		
120 SQ. FT. INITIAL BASAL AREA													
20	20	0	0	1	1	5	7	20	26	58	76	120	
	25	0	0	4	5	19	25	67	85	173	223	155	
	30	1	2	11	14	52	65	160	201	384	484	163	
	35	4	5	28	35	112	139	318	394	714	884	207	
	40	9	11	58	71	213	261	561	686	1181	1444	227	
	45	19	24	109	133	369	447	907	1097	1795	2173	243	
50	38	46	190	231	594	715	1367	1643	2554	3069	257		
25	25	0	1	5	7	26	34	89	115	226	295	120	
	30	2	2	16	21	73	93	220	281	515	658	148	
	35	6	7	40	50	169	200	441	554	954	1197	173	
	40	13	17	84	104	302	374	769	953	1546	1916	193	
	45	28	35	157	193	515	632	1214	1491	2283	2802	211	
	50	54	67	269	330	812	991	1780	2169	3142	3828	227	
55	96	119	433	528	1204	1462	2457	2978	4094	4957	240		
30	30	2	3	21	27	91	118	271	349	611	789	120	
	35	7	9	53	67	206	261	551	700	1138	1444	144	
	40	18	23	112	140	391	491	955	1199	1824	2286	165	
	45	38	48	209	260	663	824	1487	1847	2633	3273	183	
	50	73	92	356	441	1029	1271	2131	2627	3547	4363	200	
	55	129	162	565	697	1494	1835	2867	3512	4509	5508	214	
60	215	269	847	1041	2051	2507	3669	4472	5491	6669	227		
35	35	9	12	64	82	244	313	631	808	1241	1587	120	
	40	23	29	138	175	470	585	1096	1387	1979	2499	141	
	45	49	62	260	322	794	968	1686	2113	2827	3532	159	
	50	94	119	443	555	1220	1521	2376	2954	3739	4630	176	
	55	166	209	697	869	1739	2157	3135	3871	4677	5749	191	
	60	274	344	1030	1278	2338	2895	3933	4828	5611	6853	204	
65	427	535	1441	1783	2995	3680	4741	5792	6520	7918	216		
40	40	59	76	308	391	896	1134	1796	2266	2858	3587	138	
	45	115	146	524	661	1364	1714	2501	3129	3747	4659	155	
	50	203	258	818	1028	1917	2395	3255	4042	4644	5729	170	
	55	334	423	1192	1492	2534	3148	4027	4969	5525	6770	183	
	60	517	653	1641	2047	3189	3944	4794	5993	6375	7763	196	
	65	761	939	2153	2678	3359	4753	5540	6762	7183	8701	207	
45	45	69	89	346	443	960	1222	1821	2308	2770	3486	120	
	50	135	173	590	751	1452	1836	2519	3163	3619	4511	136	
	55	239	306	917	1161	2019	2536	3249	4049	4469	5525	151	
	60	392	500	1323	1667	2634	3290	3986	4934	5300	6506	165	
	65	604	766	1795	2253	3272	4065	4785	5794	6099	7439	177	
	70	979	1116	2317	2899	3911	4825	5406	6515	6858	8319	169	
75	1218	1545	2870	3578	4537	5524	6070	7390	7577	9144	200		
50	50	152	195	639	818	1465	1886	2452	3067	3407	4252	120	
	55	272	349	993	1259	2050	2585	3150	3934	4209	5209	135	
	60	446	572	1414	1791	2650	3320	3848	4771	4993	6134	148	
	65	682	873	1896	2391	3261	4063	4529	5560	5747	7016	161	
	70	983	1256	2415	3034	3865	4792	5184	6351	6467	7650	173	
	75	1346	1716	2952	3694	4453	5491	5886	7079	7150	8634	163	
80	1761	2240	3493	4351	5014	6154	6333	7761	7796	9369	193		
55	55	299	387	1032	1319	2022	2556	2989	3737	3905	4633	120	
	60	491	633	1464	1862	2593	3263	3647	4527	4644	5707	133	
	65	747	932	1944	2461	3160	3966	4290	5290	5360	6544	146	
	70	1068	1371	2451	3089	3750	4654	4908	6017	6046	7339	156	
	75	1445	1851	2966	3721	4301	5311	5499	6705	6699	8091	168	
	80	1867	2385	3475	4341	4827	5931	6060	7353	7321	8799	179	
60	60	526	682	1478	1884	2499	3141	3413	4236	4262	5262	120	
	65	793	1031	1947	2471	3048	3606	4019	4957	4362	6056	132	
	70	1131	1458	2436	3075	3587	4455	4605	5646	5617	6919	144	
	75	1515	1947	2923	3576	4106	5072	5167	6301	6246	7542	155	
	80	1935	2479	3405	4259	4602	5657	5703	6921	6645	8227	165	
	65	65	833	1079	1913	2431	2886	3607	3736	4607	4570	5577	120
70		1172	1514	2379	3007	3394	4216	4293	5262	5197	6306	131	
75		1566	2003	2844	3576	3885	4800	4830	5888	5802	7004	142	
80		1967	2525	3256	4125	4356	5354	5344	6444	6382	7668	152	
70		70	1191	1542	2294	2900	3187	3958	3983	4880	4793	5814	120
		75	1589	2023	2733	3437	3653	4511	4495	5480	5375	6486	131
	80	1988	2529	3159	3954	4101	5039	4991	6053	5937	7131	141	
	75	75	1558	2012	2603	3273	3417	4218	4173	5083	4971	5995	120
		80	1942	2497	3006	3761	3845	4722	4650	5636	5514	6620	130
	80	80	1896	2437	2843	3555	3593	4410	4324	5238	5115	6138	120

TABLE *C.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FWT VOLUME (V101, V100) AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED BASAL AREA										
INITIAL AGE	FINAL AGE	50		60		70		80		90		SQ. FT.										
YEARS		I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.											
130 SQ. FT. INITIAL BASAL AREA																						
20	20	0	0	1	1	5	6	18	24	53	70	130										
	25	0	0	3	4	18	22	60	77	158	202	165										
	30	1	1	10	13	47	58	144	181	349	438	193										
	35	3	4	25	31	101	124	288	355	651	802	217										
	40	8	10	52	64	192	234	510	621	1084	1319	236										
	45	18	21	99	120	334	404	829	1000	1661	2003	252										
50	34	42	173	208	542	650	1261	1510	2386	2857	266											
25	25	0	1	5	6	24	31	82	107	212	275	130										
	30	2	2	15	19	66	84	202	256	477	606	159										
	35	5	6	36	45	144	180	403	504	882	1103	183										
	40	12	15	75	94	273	337	704	869	1438	1775	203										
	45	25	31	141	173	468	572	1119	1368	2140	2617	221										
	50	49	60	243	297	742	902	1654	2007	2974	3609	236										
55	87	107	393	478	1109	1341	2305	2782	3912	4719	249											
30	30	2	3	19	25	85	109	254	326	530	746	130										
	35	7	8	48	61	189	239	512	648	1077	1362	154										
	40	16	20	101	127	358	447	890	1112	1732	2163	175										
	45	194	241	189	235	608	753	1391	1721	2524	3119	193										
	50	66	82	322	398	949	1167	2009	2467	3419	4192	209										
	55	116	145	515	632	1388	1698	2728	3329	4382	5338	223										
60	8	41	776	950	1922	2341	3523	4279	5378	6515	236											
35	35	21	26	59	76	1127	1391	161	229	437	552	130										
	40	44	55	161	209	437	552	1600	2042	1313	765	151										
	45	85	107	56	72	236	299	505	114	1739	925	1609	2009	1417	925	2283	2629	2765	3660	4545	3445	169
	50	150	188	640	794	1639	2024	3036	3737	4631	5679	201										
	55	247	304	134	165	161	175	267	222	321	371	3838	4681	5588	2799	214						
	65	247	304	134	165	161	175	267	222	321	371	3838	4681	5588	2799	214						
40	40	25	32	151	192	503	640	1143	1452	2010	2545	130										
	45	54	69	235	300	849	1071	1752	2204	2860	3582	148										
	50	104	133	484	609	1298	1625	2453	3060	3763	4671	165										
	55	184	233	759	950	1837	2287	3212	3979	4632	5767	180										
	60	303	383	1114	1388	2447	3031	3999	4923	5590	6839	193										
	65	472	594	1546	1921	3106	3830	4788	5863	6468	7868	206										
70	699	877	2046	2535	3788	4553	5559	6775	7306	8840	217											
45	45	64	82	325	415	928	1179	1817	2296	2832	3559	130										
	50	124	158	555	703	1409	1776	2521	3159	3705	4612	146										
	55	219	279	884	1089	1971	2469	3266	4063	4582	5659	161										
	60	360	457	1253	1574	2599	3224	4024	4973	5441	6673	175										
	65	555	704	1714	2145	3238	4013	4772	5853	6267	7639	189										
	70	813	1029	2232	2784	3896	4806	5495	6716	7054	8550	199										
75	1135	1435	2769	3468	4544	5583	6185	7524	7796	9403	209											
50	50	141	182	611	779	1470	1862	2502	3146	3548	4425	130										
	55	252	323	947	1202	2038	2564	3222	4019	4380	5418	145										
	60	413	528	1361	1719	2849	3313	3944	4886	5193	6377	159										
	65	634	909	1839	2312	3276	4077	4651	5726	5975	7290	111										
	70	1268	1170	2361	2959	3905	4832	5332	6528	6719	8152	183										
	75	1675	2105	3612	4510	5101	6156	6230	7234	7401	8807	193										
80	2125	2612	3989	4944	5701	6856	7030	8034	8201	9607	203											
55	55	281	362	1005	1282	2047	2583	3106	3690	4119	5099	130										
	60	461	592	1433	1818	2640	3311	3791	4703	4888	6006	144										
	65	703	902	1916	2420	3243	4043	4460	5497	5630	6874	156										
	70	1011	1294	2432	3059	3837	4758	5104	6254	6339	7695	168										
	75	1379	1761	2963	3711	4412	5444	5716	6969	7013	8469	179										
	80	1797	2293	3422	4357	4992	6023	6297	7639	7650	9195	189										
60	60	501	646	1471	1872	2576	3239	3552	4459	4556	5599	130										
	65	751	981	1949	2469	3151	3934	4226	5211	5262	6425	142										
	70	1086	1395	2452	3091	3711	4610	5419	5929	5941	7212	154										
	75	1465	1878	2961	3716	4257	5257	5973	6609	6596	7956	165										
	80	1887	2412	3482	4327	4775	5868	6249	7249	7204	9659	175										
	65	65	806	1041	1993	2467	3021	3774	3969	4894	4890	5969	130									
70		1140	1470	2428	3035	3553	4413	4549	5577	5540	6724	142										
75		1525	1960	2913	3661	4067	5025	5106	6227	6164	7443	152										
80		1943	2491	3388	4238	4559	5603	5636	6942	6760	8124	163										
70		70	1175	1519	2371	2996	3370	4186	4256	5216	5148	6247	130									
		75	1558	2006	2232	3541	3659	4766	4790	5639	5750	6941	141									
	80	1969	2527	3261	4105	4326	5317	5302	6432	6328	7603	151										
	75	75	1569	2024	2726	3429	3639	4495	4476	5457	5352	6458	130									
		80	1967	2526	3151	3941	4086	5021	4971	6029	5913	7102	140									
		80	80	1942	2497	3007	3762	3846	4724	4652	5639	5517	6623	130								

TABLE 41.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME (V101,V100) AND
TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA	
		50		60		70		80		90			
		I	O.B.	I.E.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.		
140 SQ. FT. INITIAL BASAL AREA													
YEARS		I	O.B.	I.E.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	SQ. FT.	
20	20	0	0	1	1	4	6	17	22	49	65	140	
	25	0	0	3	4	16	20	55	70	144	183	175	
	30	1	1	9	12	42	52	130	162	317	395	203	
	35	3	4	22	28	91	112	260	319	593	727	226	
	40	7	9	47	57	174	211	464	562	994	1205	245	
	45	16	19	89	108	304	366	759	912	1536	1845	261	
50	31	38	157	199	496	593	1164	1398	2222	2557	274		
25	25	0	0	4	5	22	29	76	98	196	254	140	
	30	2	2	13	17	60	76	184	233	438	565	169	
	35	4	6	33	41	131	162	367	457	812	1012	193	
	40	11	13	68	84	247	304	643	791	1331	1637	213	
	45	23	28	127	156	425	518	1029	1253	1998	2433	230	
	50	44	54	220	268	678	821	1533	1853	2803	3388	245	
55	78	96	359	433	1021	1230	2157	2593	3723	4475	258		
30	30	2	3	18	22	78	100	236	301	546	699	140	
	35	6	8	44	55	172	217	473	596	1011	1274	164	
	40	15	18	91	114	326	406	823	1024	1633	2031	185	
	45	31	39	170	211	556	685	1294	1594	2396	2950	203	
	50	59	74	292	359	873	1069	1884	2304	3273	3999	219	
	55	105	130	468	573	1286	1566	2582	3139	4233	5139	233	
60	175	217	711	867	1796	2179	3366	4073	5238	6326	245		
35	35	19	10	55	69	212	270	565	719	1159	1473	140	
	40	40	24	116	146	404	508	1028	1281	1894	2338	161	
	45	76	96	363	459	1061	1312	2176	2686	3589	4420	179	
	50	135	169	585	724	1535	1808	2918	3579	4549	5564	210	
	55	224	279	875	1078	2099	2571	3721	4541	5525	6718	223	
	60	352	438	1211	1528	2739	3342	4455	5535	6488	7849	235	
40	40	23	63	133	177	472	599	1099	1392	1982	2503	140	
	45	49	262	330	758	1003	1691	2120	2830	3536	4336	159	
	50	95	120	446	558	1225	1528	2382	2962	3742	4634	175	
	55	167	210	701	874	1746	2165	3141	3879	4679	5752	190	
	60	275	346	1035	1285	2345	2895	3938	4836	5811	6654	203	
	65	430	539	1448	1792	3002	3690	4745	5796	6518	7916	215	
70	639	930	1933	2397	3693	4523	5541	6740	7386	8925	226		
45	45	58	75	304	386	888	1124	1790	2257	2861	3589	140	
	50	113	144	517	652	1353	1693	2495	3119	3752	4664	157	
	55	200	253	808	1014	1904	2377	3250	4034	4654	5740	172	
	60	328	416	1179	1474	2520	3130	4025	4955	5540	6786	185	
	65	509	643	1625	2026	3176	3926	4796	5883	6394	7786	197	
	70	749	945	2135	2653	3849	4738	5546	6768	7208	8729	209	
75	1055	1328	2691	3336	4518	5541	6263	7609	7976	9613	219		
50	50	131	167	578	739	1438	1816	2523	3166	3655	4554	140	
	55	232	296	898	1135	2004	2514	3260	4060	4515	5580	155	
	60	380	484	1298	1634	2620	3269	4004	4954	5356	6573	169	
	65	586	744	1767	2215	3263	4050	4737	5882	6165	7518	181	
	70	655	1084	2268	2859	3909	4830	5443	6534	6534	8409	193	
	75	1188	1505	2842	3541	4544	5589	6117	7445	7661	9244	203	
80	1583	2002	3411	4236	5154	6313	6753	8162	8345	10023	213		
55	55	261	336	969	1231	2047	2576	3902	3983	4303	5323	140	
	60	429	549	1388	1755	2653	3321	4837	4837	5101	6266	154	
	65	657	840	1808	2353	3274	4075	4597	5662	5870	7164	166	
	70	950	1212	2390	2998	3691	4818	5266	6448	6602	8012	178	
	75	1306	1662	2933	3666	4490	5534	5902	7191	7296	8809	189	
	80	1717	2181	3480	4334	5063	6213	6503	7887	7951	9555	199	
60	60	471	607	1446	1836	2629	3298	3744	4645	4805	5905	140	
	65	719	924	1928	2437	3224	4021	4404	5429	5538	6762	153	
	70	1032	1322	2442	3073	3810	4726	5038	6175	6239	7574	164	
	75	1404	1794	2967	3719	4377	5402	5643	6880	6906	8340	175	
	80	1823	2325	3490	4356	4918	6041	6217	7543	7537	9060	185	
	65	65	771	994	1951	2472	3129	3907	4178	5152	5191	6338	140
70		1098	1411	2450	3090	3686	4576	4782	5863	5864	7118	152	
75		1479	1897	2955	3710	4223	5215	5360	6536	6506	7858	162	
80		1900	2431	3451	4314	4735	5820	5910	7171	7118	8556	173	
70		70	1146	1478	2422	3059	3531	4385	4511	5530	5488	6662	140
		75	1531	1968	2905	3651	4041	4992	5065	6176	6109	7377	151
	80	1948	2498	3376	4223	4529	5567	5594	6788	6703	8056	161	
	76	75	1560	2010	2825	3553	3844	4748	4768	5813	5722	6908	140
		80	1959	2528	3273	4096	4310	5297	5279	6405	6299	7569	150
	60	80	1967	2528	3150	3943	4085	5019	5970	6027	5910	7099	140

TABLE 42.--CURRENT AND PROJECTED MERCHANTABLE CUBIC FOOT VOLUME(V101,V100) AND
TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA	
		50		60		70		80		90			
		I.E.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.		
YEARS		150 SO. FT. INITIAL BASAL AREA										SO. FT.	
		0	1	2	3	4	5	6	7	8	9		
20	20	0	11	1	3	144	18	16	63	130	165 59	150	
	25			3	8		47	49				185	
	30	1	3	8	25	38	117	146	287	356		213	
	35	3	8	20	52	157 82	100 191	235 422	288 589	539 911	1100 659	235	
	40		17	42	98							253	
	45	6	34	143 81	172	277 454	541 332	1075 696	1277 832	2070 1420	2470 1699	269	
25	50											281	
	25	0	2	12	5	20	68 6	69	211	181	233	150	
	30	1			15	54	167			401	506	179	
	35	10	12	29	36	118	146	333	413	745	924	202	
	40	20	25	115 61	140 75	223 386	274 469	587 945	1146 718	1229 1060	2356 1505	222	
	45											239	
30	50	40	49	199	242	620	748	1419	1709	2633	3171	253	
	55	71	87	326	393	940	1128	2014	2413	3532	4230	266	
	30	5	2	15	20	72	91	217	27 39	15 50	157 197	21 435	150
	35	13	16			297						174	
	40	28	35	154 82	103 190	507 622	368 1199	758	1471 839	2660 528	2772 3 3	195	
	45											213	
35	50	53	66	265	324	800	976	1759	2142	3116	3793	228	
	55	95	117	426	520	1188	1441	2433	2946	4065	4919	242	
	60	159	196	651	791	1674	2023	3202	3661	5075	6111	253	
	35	7	21	a	105	193 2	528	669	1103	1396		150	
	40	36	45			371	465	817	1147	1771	2214	171	
	45	69	86	336 196	245 415	630 981	1209 781	2059 1430	3532 1072	5572 2473	8284 3104	189	
40	50											205	
	55	122	151	534	658	1431	1753	2785	3405	4437	5411	220	
	60	202	251	804	936	1974	2409	3584	4359	5427	6582	232	
	65	320	395	1152	1408	2600	3151	4425	5361	6415	7743	243	
	40	21	27	128	162	440	556	1047	1320	1932	2433	150	
	45	45	56	240	301	744	931	1616	2019	2772	3454	169	
45	50	85	108	408	509	1148	1426	2291	2840	3636	4554	185	
	55	151	189	645	800	1648	2035	3045	3750	4637	5687	200	
	60	249	312	957	1184	2232	2745	3848	4712	5591	6815	213	
	65	391	488	1350	1664	2833	3532	4670	5692	6526	7912	225	
	70	505	729	1818	2237	3577	4369	5489	6652	7424	8958	235	
	45	53	68	281	356	841	1061	1743	2192	2857	3577	150	
50	103	130	478	601	1287	1611	2443	3046	3762	4666	167		
55	181	229	750	938	1823	2258	3203	3955	4684	5768	182		
60	239	377	1101	1372	2432	3011	3992	4912	5596	6845	195		
65	465	585	1530	1900	3891	3009	4703	5855	6479	7879	207		
70	699	865	2028	2512	3775	4635	5558	6772	7321	8957	218		
75	975	1224	2521	3199	4763	5451	6333	7647	8117	9773	228		
50	50	120	153	541		1391 1949	1751	2515 3294	4058 3149	4612 3706	4636 5693	150	
	55	212 2	270 53	5 845 1	1067 625		3154					165	
	60	348										179	
	65	539	443 682	1228 1694	2044 1539	3367 2010	3386	4028 4705	5275	5400 6017	6711 7556	191	
	70	791	999	2199	2743	3882	4787	5517	6740	7112	8519	202	
	75	1107	1397	2757	3424	4539	5573	6217	7559	7863	9432	213	
55	80	1458	1875	3336	4132	5174	6329	6879	8326	8568	10236	222	
	55	241	309	923	1169	2023	2542	3245	4045	4453	5506	150	
	60	396	506	1330	1677	2639	3295	3979	4926	5281	6482	164	
	65	609	776	1894	2365	3274	4039	4699	5702	6076	7412	176	
	70	987	1126	2326	2911	3911	4835	5335	6500	6833	8289	188	
	75	1228	1559	2878	3589	4534	5581	6054	7371	7548	9110	198	
60	80	1629	2063	3440	4277	5132	6230	6678	8094	8222	9877	208	
	60	440	565	1406	1780	2632 66	3322	3656	4793	5027	6176	150	
	65	674	863	1897	2380	326 3375	4068	4551	5607	5706	7063	163	
	70	973	1242	2403	3024		4801	5211	6383	6510	7902	174	
	75	1333	1699	2917	3686	4466	5506	5839	7115	7197	8690	185	
	80	1747	2222	3487	4347	5030	6174	6432	7801	7845	9428	195	
65	65	730	939	1936	2448	3208	4003	4361	5377	5470	6679	150	
	70	1046	1341	2447	3031	3723	4701	4989	6116	6165	7485	162	
	75	1420	1817	2568	3222	4309	5353	5589	6814	6827	8245	173	
	80	1841	2349	3495	4352	4884	6000	6157	7471	7455	8960	183	
	70	1105	1422	2448	3089	3666	4552	4746	5818	5812	7056	150	
	75	1487	1908	2950	3705	4139	5186	5320	6488	6452	7792	161	
70	80	1909	2442	3443	4304	4709	5787	5867	7120	7061	8487	171	
	75	1533	1972			2900	3645	4027	4975	5043	6150	150	
	80	1951	2501			3369	4215	4513	5548	5571	6760	160	
	80	1970	2529			3271	4034	4307	5294	5276	6100	150	
										629 1	7563		
	80	80										150	

Current and Projected Cord (C5) and Board Foot Int. 1/4 (BF) Volume and
Total Basal Area Per Acre

TABLE 43.--CURRENT AND PROJECTED CORD(C5) AND BOARD FOOT INT. 1/4(BF) VOLUME AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED	
INITIAL AGE	FINAL AGE	60		70		80		90		BASAL AREA			
YEARS		CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	SO. FT.			
20 SO. FT. INITIAL BASAL AREA													
20	20	1.7	0	2.3	0	2.9	20	3.6	80	4.3	230		
	25	4.5	0	5.8	30	7.1	150	8.6	520	10.2	1260		
	30	8.4	10	10.5	130	12.7	620	15.2	1770	18.0	3640		
	35	12.9	50	16.0	420	19.2	1650	22.8	4070	27.0	7410		
	40	17.8	150	21.8	1020	26.1	3430	31.0	7390	36.5	12210		
	45	22.8	360	27.7	2050	33.1	5960	39.2	11500	46.2	17630		
	50	27.6	730	33.6	3590	40.1	9160	47.4	16110	55.8	23350		
25	25	2.6	0	3.2	20	3.9	110	4.7	360	5.5	830		
	30	5.2	10	6.7	110	7.7	510	9.2	1370	10.9	2660		
	35	8.6		10.5	410	12.5	1490	14.9	3370	17.5	5710		
	40	12.5	1%	15.1	1050	18.0	3220	21.3	6310	25.0	9670		
	45	16.7	410	20.1	2190	23.8	5690	28.1	9920	33.1	16200		
	50	21.0	880	25.2	3870	29.8	8720	35.1	13930	41.3	19030		
	55	25.4	1630	30.3	6070	35.8	12120	42.1	18140	49.5	23980		
30	30	3.2	10	3.9	90	4.7	370	5.5	950	6.5	1780		
	35	5.7	50	6.8	340	8.2	1170	9.6	2510	11.3	4040		
	40	9.7	160	10.4	940	12.4	2660	14.6	4850	17.1	7120		
	45	12.1	410	14.4	2020	17.1	4800	20.1	7820	23.6	10750		
	50	15.7	910	18.7	3540	22.1	7430	26.0	11150	30.5	17120		
	55	19.5	1720	23.1	5710	27.3	10360	32.0	14690	37.6	18890		
	60	23.3	2910	27.6	8120	32.5	13450	38.1	18320	44.7	23130		
35	35	6.0	40	4.4	260	5.3	860	10.0	1500	7.3	2750		
	40	8.7	300 (30)	7.1	760	8.5	2040	11.7	5060	11.7	5060		
	45			10.3	1710	12.2	3790	14.3	5890	16.8	7910		
	50	11.7	860	13.8	3130	16.3	5960	19.2	8590	22.5	11130		
	55	14.9	1650	17.6	4530	20.7	8410	24.3	11530	28.5	14600		
	60	18.2	2810	21.5	7060	25.3	11020	29.6	14610	34.7	18220		
	65	21.6	4290	25.4	9310	29.9	13710	35.0	17760	41.0	21920		
40	40	6.2	110	7.4	590	8.8	1500	6.8	2540	8.0	3540		
	45	8.6	750 (30)	10.2	1500 (30)	12.0	2870	10.2	4340	12.0	5740		
	50					12.0	4620	14.1	6500	16.6	8320		
	55	11.3	1450	13.4	4100	15.7	6640	18.4	8920	21.6	11180		
	60	14.2	2540	16.7	5530	19.6	8820	23.0	11510	26.9	14240		
	65	17.1	3880	20.2	7800	23.7	11120	27.7	14210	32.4	17430		
	70	20.2	5430	23.7	9830	27.8	13460	32.5	16980	38.1	20710		
45	45	6.4	260	5.3	1050	6.2	2130	7.3	3160	8.5	4130		
	50	8.4	630	7.5	2020	9.9	3520	10.4	4870	12.2	6180		
	55	8.6	1270	10.1	3290	11.9	5160	14.0	6840	16.4	8520		
	60	11.0	2200	13.0	4720	15.2	6530	17.8	9000	20.9	11090		
	65	13.6	3370	16.0	6400	18.7	8920	21.9	11310	25.7	13820		
	70	16.2	4720	19.1	8110	22.4	10250	26.2	13720	30.6	16680		
	75	19.0	6170	22.3	9870	26.1	13030	30.5	16190	35.7	19610		
50	50	6.5	1800 (30)	7.7	2800 (30)	6.5	2650	7.7	3630	9.0	4580		
	55					9.0	3530	10.6	5220	12.7	6480		
	60	8.5	1840	10.1	3220	11.8	5480	13.8	7020	16.2	8620		
	65	10.7	2650	12.6	5190	14.8	7120	17.3	8590	20.3	10550		
	70	13.1	4010	15.4	6650	18.0	8870	21.1	11060	24.6	13420		
	75	15.5	5250	18.2	8170	21.3	10680	24.9	13230	29.1	16000		
	80	18.0	6550	21.1	9720	24.7	12550	28.8	15460	33.7	18650		
55	55	6.6	1510 (30)	5.8	2020	6.8	3050	8.0	3980	9.4	4920		
	60			7.0	3030	9.2	4290	10.7	5460	12.6	6690		
	65	8.5	2360	10.0	4170	11.7	5670	13.7	7110	16.0	8660		
	70	10.5	3350	12.3	5410	14.5	7160	16.9	8900	19.8	10790		
	75	12.7	4420	14.8	6720	17.4	8740	20.3	10800	23.7	13050		
	80	14.9	5540	17.4	8090	20.4	10390	23.8	12770	27.8	15400		
60	60	5.1	1220	6.1		7.1	3340	8.3	4240	9.7	5190		
	65	6.7	1930	7.9	2300 (30)	9.3	4500	10.8	5630	12.7	6850		
	70	8.5	2770	9.9	4390	11.6	5770	13.6	7160	15.9	8670		
	75	10.3	3680	12.1	5520	14.2	7140	16.6	8810	19.4	10640		
	80	12.3	4660	14.4	6710	16.8	8590	19.7	10550	23.0	12710		
65	65	5.3											
	70	6.8	1570	6.2	2660	7.3	3570	8.6	4460	10.0	5410		
	75		2270	8.0	3550	9.7	4650	10.9	5760	12.8	6970		
	80	8.4	3050	9.9	4520	11.6	5830	13.5	7180	15.8	8670		
		10.2	3690	11.9	5560	13.9	7100	16.3	8710	19.0	10490		
70	70	5.5	1650	6.7	2870	7.5	3740	8.8	4630	10.3	5600		
	75	6.9	2520	8.1	3700	9.7	4760	11.0	5860	12.9	7070		
	80	8.4	3240	9.8	4600	11.5	5870	13.4	7190	15.7	8660		
75	75	5.6	2070	6.6		7.7	3880	9.0	4780	10.5	5760		
	80	6.9	2700	8.1	3020 (30)	9.5	4840	11.1	5940	13.0	7150		
80	80	5.7	2240	6.7	3150	7.8	4000	9.2	4900	10.7	5900		

TABLE 44.--CURRENT AND PROJECTED CORD(C5) AND BOARD FOOT INT. 1/4(BF) VOLUME AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA
		50		60		70		80		90		
		CDS.	FEM.	CDS.	FEM.	CDS.	FEM.	CDS.	FEM.	CDS.	FEM.	SQ. FT.
30 SQ. FT. INITIAL BASAL AREA												
20	20		0		0	4.4	20			6.4	300	30
	25	8.8	10	1.8	30	9.8	170	11.8	390	14.0	1470	51
	30	10.6	50	13.5	130	16.5	630	19.8	1870	23.5	4020	73
	35	12.1	130	19.9	400	24.0	1610	28.6	4160	33.9	7960	94
	40	26.5	310	26.3	930	31.7	3260	37.7	7480	44.5	13040	113
	45	32.7	1830	32.7	1830	39.3	5650	46.7	11640	55.1	18910	131
50	31.8	620	39.0	3180	46.7	8730	55.4	16410	65.3	24950	148	
25	25	3.6	0	4.9	30	5.8	140	7.0	470	9.3	1110	30
	30	7.2	10	8.9	130	10.8	590	12.8	1650	15.2	3330	47
	35	11.3	50	13.9	430	16.7	1630	19.8	3890	23.3	6880	64
	40	15.9	160	19.3	1060	23.1	3420	27.3	7120	32.2	11420	81
	45	20.6	380	24.9	2140	29.7	5980	35.1	11100	41.3	16560	98
	50	25.3	720	30.5	3750	36.3	9160	42.8	15530	50.4	21990	113
55	130.1	1460	36.1	5910	42.8	12800	50.5	20180	59.3	27490	128	
30	30	4.7	10	5.8	110	7.0	480	8.3	1280	9.8	2460	30
	35	7.9	50	9.6	400	11.5	1430	13.6	3200	16.0	5340	44
	40	11.6	170	14.0	1040	16.7	3120	19.7	6020	21.2	9110	58
	45	15.7	420	16.6	2170	22.3	5530	26.3	9490	28.8	13450	73
	50	19.8	890	23.7	3960	28.0	8500	33.0	13370	38.8	18100	87
	55	24.1	1660	26.6	6050	33.9	11810	39.8	17430	46.6	22880	100
60	29.3	2790	33.6	8640	39.6	15300	46.6	21550	54.6	27680	113	
35	35	5.5	50	6.6	330	7.9	1150	9.3	2450	11.0	3930	30
	40	8.5	160	10.1	930	12.0	2610	14.2	4760	16.7	6950	42
	45	11.8	410	14.1	2000	16.6	4720	19.6	7660	23.0	10510	54
	50	15.4	910	18.3	3610	21.6	7320	25.4	10950	29.9	14430	67
	55	19.1	1720	22.7	5660	26.7	10220	31.4	14440	36.8	18540	79
	60	22.9	2910	27.1	8050	31.9	13270	37.4	18030	43.9	22740	91
65	26.7	4450	31.5	10630	37.0	16380	43.5	21640	50.9	26950	102	
40	40	6.1	140	7.3	-	8.6	2080	10.2	3630	12.0	5170	30
	45	8.8	360	10.5	1730	12.4	3640	14.6	6000	17.2	6060	40
	50	11.9	860	14.1	3170	16.6	6040	19.5	8730	22.9	11320	51
	55	15.1	1660	17.9	5010	21.0	6520	24.7	11700	29.0	14820	62
	60	18.5	2623	21.8	7120	25.6	11160	30.1	14810	35.2	18480	73
	65	21.9	4300	25.9	9400	30.3	13870	35.5	17990	41.6	22210	83
70	25.3	6040	29.8	11750	34.9	16610	40.9	21180	47.9	25960	94	
45	45	6.6	330	7.9	1430	9.3	3040	10.9	4610	12.8	6110	30
	50	9.2	770	10.8	2670	12.8	4860	15.0	6870	17.6	9900	39
	55	11.9	1520	14.1	4260	16.6	6960	19.4	9370	22.8	11770	49
	60	14.9	2600	17.5	6100	20.6	9220	24.1	12050	28.3	14930	58
	65	17.9	3970	21.1	8090	24.7	11580	29.0	14840	33.9	18220	68
	70	21.0	5550	24.7	10150	29.0	13990	33.9	17880	39.7	21570	78
75	24.1	7270	28.3	12230	33.2	16430	38.8	20540	45.4	24960	87	
50	50	9.4	670	9.3	2190	9.8	3850	11.5	5350	13.5	6810	30
	55	11.9	2310	11.1	5100	13.8	5610	15.3	7480	17.7	9300	38
	60	14.6	3540	17.2	6840	20.2	9590	23.7	12180	27.7	13880	47
	65	17.4	4950	20.5	8640	24.0	11710	26.1	14700	32.8	17890	55
	70	20.3	6470	23.6	10470	27.9	13690	32.6	17280	38.1	20940	64
	80	23.1	8040	27.1	12330	31.7	16070	37.1	19880	43.3	24020	81
55	55	7.4	1150	11.3	2900	10.2	4480	12.0	5910	14.1	7340	30
	60	12.9	2000	14.1	4240	13.3	6120	15.3	7670	18.2	10160	37
	65											45
	70	14.4	4330	16.9	7260	19.9	9770	23.3	12200	27.2	14620	53
	75	17.0	5660	19.9	6910	23.3	11700	27.3	14510	31.9	17560	61
	80	19.6	7050	23.0	10560	26.9	13670	31.4	16860	36.7	20350	69
60	60	7.7										
	65	9.8	2640	11.5	4750	10.6	4960	12.5	6380	14.6	7760	30
	70											37
	75	12.0	3730	14.0	6110	16.4	8120	19.2	10110	22.5	12270	44
	80	14.3	4900	16.7	7540	19.6	9840	22.9	12170	26.9	14710	51
		16.6	6120	19.5	9020	22.6	11610	26.6	14290	31.1	17240	58
65	65	9.9	2240	9.4	3920	11.0	5310	12.8	6670	15.0	8110	30
	70	12.0	4200	11.6	6360	13.6	6740	15.9	8390	18.4	10150	36
	75											43
	80	14.1	5260	16.5	7680	19.3	9850	22.6	12110	26.4	14590	49
70	70	9.2	2690	9.6	4250	11.3	5590	13.2	6940	15.4	8400	30
	75	10.0	3580	11.7	5360	13.6	6930	16.1	8550	16.6	10320	36
	80	12.0	4540	14.0	6530	16.4	8350	19.1	10250	22.4	12360	42
75	75	6.4	3040	9.8	4510	11.5	5820	13.5	7160	15.7	6640	30
	80	10.1	3880	11.9	5550	13.9	7080	16.2	8680	16.9	10460	35
80	80	6.6	3310	10.1	4710	11.8	6000	13.7	7350	16.0	6960	30

TABLE 45.--CURRENT AND PROJECTED CORD(CS) AND BOARD FOOT INT. 1/4(BF) VOLUME AND
TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED	
INITIAL	FINAL	50		60		70		80		90		BASAL AREA	
AGE	AGE	CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	SQ. FT.	
40 SO. FT. INITIAL BASAL AREA													
20	20	3.0	0	4.5	0	5.7	30	7.1	120	8.5	350	40	
	25	7.2	0	9.7	30	12.1	180	14.7	620	17.6	1560	64	
	30	12.3	10	16.1	130	19.9	610	23.8	1850	28.3	4110	88	
	35	17.4	40	22.9	370	28.0	1510	33.5	4030	39.7	8050	110	
	40	23.4	120	21.6	830	36.2	3010	43.3	7200	51.2	13130	131	
	45	29.0	270			44.3	5200	52.8	11260	62.4	19020	149	
50	34.5	530	43.1	6	52.0	3	61.8	16010	73.0	25360	166		
25	25	4.9	10	11.2	6.3	14.0	13.6	9.3	540	11.0	1310	40	
	30	8.9				16.0	630	16.2	1800	19.2	3750	59	
	35	13.6	50			16.50		21.2	4120	28.6	7590	79	
	40	16.6	150	22.8	16.9	1010	400	20.3	27.4	34.10	3410	97	
	45	23.7	350	26.9	2010	34.6	5920	41.0	11600	49.3	17990	115	
	50	28.8	710	34.9	3500	41.7	9100	49.3	16260	58.0	23830	131	
55	33.7	1290	40.7	5530	48.5	12810	57.3	21200	67.4	29740	146		
30	30	6.2	50	12.2	7.7	14.0	13.6	9.3	540	11.0	1310	40	
	35	10.0				16.0	630	16.2	1800	19.2	3750	59	
	40	14.3	160	17.3	1060	26.8	3360	24.4	6780	28.7	10630	72	
	45	16.7	400	22.6	2180	33.2	5690	31.7	10600	37.3	15490	88	
	50	23.3	840	28.0	3840	39.1	9020	39.1	14850	46.0	20650	103	
	55	27.6	1550	33.3	6030	39.4	12570	46.5	19300	54.6	25690	117	
60	32.3	2590	38.5	8670	45.6	16330	53.6	23790	62.9	31100	131		
35	35	7.3	50	8.8	380	10.5	1360	12.4	3010	14.6	4980	40	
	40	10.8	160	13.0	1020	15.4	3010	18.2	5710	21.4	8560	54	
	45	11.6	420	17.5	2150	20.6	5360	24.5	9050	28.7	12710	68	
	50	18.7	900	22.3	3820	26.3	8240	31.0	12760	36.4	17170	81	
	55	22.2	1690	27.1	5990	32.0	11450	37.6	16700	44.1	21790	95	
	60	26.9	2840	31.9	8540	37.6	14840	44.2	20690	51.8	26430	107	
65	30.9	4370	36.6	11340	43.1	18270	50.6	24650	59.3	31020	119		
40	40	8.1	150	9.7	910	11.5	2540	13.6	4600	15.9	6680	40	
	45	11.4	410	13.5	1970	16.0	4610	18.9	7430	22.1	10150	52	
	50	14.9	910	17.7	3560	20.9	7150	24.5	10630	28.8	13980	64	
	55	18.5	1720	21.9	5590	25.9	9990	30.4	14050	35.7	18000	76	
	60	22.2	2910	26.3	7940	31.0	12980	36.4	17570	42.6	22130	88	
	65	26.0	4440	30.7	10480	36.1	16030	42.3	21120	49.5	26270	100	
70	29.7	6280	35.0	13100	41.1	19080	48.1	24640	56.4	30380	110		
45	45	8.8	380	10.4	1720	12.3	3820	14.5	5960	17.0	8000	40	
	50	11.8	860	14.0	3160	16.5	6010	19.4	8580	22.7	11240	51	
	55	15.0	1660	17.8	4990	20.9	8480	24.6	11640	28.8	14740	62	
	60	18.4	2620	21.7	7100	25.5	11100	29.9	14730	35.0	18380	72	
	65	21.8	4300	25.6	9370	30.1	13810	35.3	17900	41.4	22100	83	
	70	25.2	6030	29.6	11710	34.8	16530	40.7	21090	47.7	25840	93	
75	28.6	7930	33.6	14060	39.4	19240	46.1	24250	53.9	29560	103		
50	50	9.3	780	11.1	2710	13.0	4950	15.3	7000	18.0	8980	40	
	55	12.2	1540	14.4	4320	16.9	7060	19.9	9550	23.2	11990	50	
	60	15.1	2620	17.8	6190	21.0	9370	21.6	12260	28.8	15200	59	
	65	19.2	4000	21.4	8190	25.2	11760	29.5	15060	34.5	18520	69	
	70	21.3	5600	25.1	10280	29.4	14200	34.4	17950	40.3	21910	79	
	75	24.5	7330	28.7	12380	33.7	16650	39.4	20630	46.1	25320	88	
80	27.6	9120	32.4	14480	37.9	19090	44.3	23710	51.8	26720	97		
55	55	9.8	1380	11.6	3660	13.6	5650	16.0	7790	19.7	9730	40	
	60	12.5	2370	14.7	5300	17.2	7840	20.2	10160	23.7	12530	49	
	65	15.2	3630	17.9	7070	21.0	9940	24.6	12650	28.8	15490	58	
	70	18.0	5070	21.2	8910	24.9	12120	29.1	15230	34.1	18540	66	
	75	20.9	6630	24.6	10800	28.8	14340	33.7	17860	39.4	21660	75	
	80	23.8	8230	27.9	12690	32.7	16570	38.3	20510	44.7	24790	84	
60	60	10.2	2100	12.1	4490	14.2	6520	16.6	8390	19.4	10320	40	
	65	12.7	3220	14.9	6040	17.5	8370	20.5	10590	24.0	12940	48	
	70	15.3	4510	17.9	7670	21.0	10310	24.6	12900	29.8	15660	56	
	75	17.9	5900	21.0	9360	24.6	12320	28.8	15290	33.7	18510	64	
	80	20.6	7340	24.1	11070	28.2	14350	33.0	17710	38.6	21390	72	
	65	65	10.6	2820	12.5	5120	14.6	7030	17.1	8860	20.0	10800	40
70		12.9	3870	15.2	6570	17.8	8760	20.8	10920	24.3	13250	47	
75		15.3	5200	16.0	8070	21.0	10560	29.6	13070	29.8	15810	55	
80		17.8	6490	20.8	9620	24.4	12410	28.5	15290	33.3	18440	62	
70		70	10.9	3450	12.9	5600	15.0	7420	17.6	9230	20.5	11190	40
		75	13.1	4550	15.3	6950	16.0	9040	21.0	11170	24.6	13500	47
	80	15.4	5700	16.0	8340	21.0	10720	24.6	13190	28.7	15900	54	
	75	75	11.2	3860	13.1	5970	15.4	7730	18.0	9540	21.0	11530	40
		80	13.3	4990	15.5	7230	18.2	9260	21.2	11370	24.8	13710	46
		80	80	11.4	4350	13.4	6250	15.7	7990	18.3	9810	21.4	11820	40

TABLE 46.--CURRENT AND PROJECTED CORD(C5) AND BOARD FOOT INT. 1/4(BF) VOLUME AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED BASAL AREA							
INITIAL AGE	FINAL AGE	50		60		70		80		90		SO. FT.							
YEARS		CDS.	FEM.	CDS.	FEM.	CDS.	FEM.	CDS.	FEM.	CDS.	FEM.								
50 SD. FT. INITIAL BASAL AREA																			
20	20	3.5	0			30													
	25	8.0	0	11.3	5.4	0	14.3	7.1	170	17.4	8.8	600 130							
	30	13.4	10	18.2	120	22.7	570	27.4	1770	32.7	4050	102							
	35	19.1	40	25.4	330	31.4	1380	37.8	3800	44.9	7850	126							
	40	24.9	100	32.6	740	40.1	2730	48.1	6770	57.0	12610	146							
	45	30.7	230	39.6	1420	48.4	4720	57.9	10540	68.6	16660	165							
50	36.4	460	46.4	2470	56.3	7390	67.2	15270	79.5	25090	181								
25	25	5.9	0	7.7	30	9.6	170	11.5	590	13.7	1450	50							
	30	10.5	10	13.3	130	16.2	630	19.5	1860	23.1	4000	72							
	35	15.5	50	19.5	400	23.6	1620	28.2	4160	33.4	7960	92							
	40	20.9	140	26.0	940	31.3	3280	37.2	7490	44.0	13010	112							
	45	26.2	310	32.4	1850	38.9	5680	46.2	11660	54.5	18760	130							
	50	31.5	630	38.6	3210	46.3	8780	54.9	16420	64.7	24870	146							
55	35.7	1140	44.7	5100	53.4	12450	63.2	21530	74.4	31100	161								
30	30	7.7	50	9.5	130	11.5	600	13.7	1700	16.2	3460	50							
	35	11.9	160	14.7	430	17.6	1640	20.9	3970	24.7	7100	68							
	40	16.6		20.2	1050	24.2	3430	28.7	7240	33.8	11740	86							
	45	21.4	380	26.0	2110	31.0	5990	36.7	11280	43.2	17000	102							
	50	26.3	770	31.7	3700	37.7	9190	44.6	15780	52.4	22540	118							
	55	31.1	1410	37.3	5820	44.3	12850	52.3	20520	61.5	28160	133							
60	35.8	2370	42.8	8430	50.7	16790	59.8	25320	70.2	33720	146								
35	35	9.0	50	10.9	410	13.1	1510	15.5	3450	18.2	5870	50							
	40	13.0	170	15.7	1060	16.7	3260	22.0	6440	26.0	9920	65							
	45	17.2	410	20.7	2190	24.6	5750	29.0	10100	34.1	14540	81							
	50	21.6	670	25.9	3670	30.7	8910	36.1	14180	42.5	19460	95							
	55	26.0	1610	31.0	6070	36.7	12250	43.2	18450	50.8	24480	109							
	60									56.9	29490	122							
65	30.4	34.6	2700	4170	41.1	36.1	11620	1700	42.7	46.5	15800	19500	57.0	50.2	22770	27040	66.8	34410	135
40	40	10.1	160	12.1	990	14.3	2900	16.9	5430	19.9	6070	50							
	45	13.7	420	16.4	2110	19.5	5180	22.9	8640	26.9	12040	63							
	50	17.6	910	21.0	3770	24.9	7980	29.3	12240	34.3	16350	77							
	55	21.6	1710	25.7	5920	30.3	11110	35.7	16040	41.9	20810	90							
	60	25.6	2670	30.4	8430	35.6	14400	42.1	19900	49.4	25320	102							
	65	29.6	4410	35.0	11160	41.3	17730	48.4	23760	56.6	29800	114							
70	33.5	6260	39.6	14000	46.5	21040	54.6	27560	63.9	34200	126								
45	45	10.9	410	13.0	1940	15.4	4490	18.1	7190	21.3	9600	50							
	50	14.3	900	17.0	3500	20.1	6970	23.7	10320	27.6	13530	62							
	55	17.9	1720	21.3	5500	25.0	9750	29.4	13660	34.5	17470	74							
	60	21.6	2900	25.5	7620	30.1	12690	35.3	17120	41.4	21520	86							
	65	25.3	4430	29.8	10320	35.1	15690	41.2	20600	48.2	25590	97							
	70	26.9	6260	34.1	12900	40.0	18680	46.9	24070	55.0	29650	108							
75	32.5	8290	39.3	15480	44.9	21630	52.6	27460	61.6	33630	118								
50	50	11.6	860	13.6	3130	16.3	5940	19.1	6570	22.4	11100	50							
	55	14.8	1660	17.5	4950	20.7	8390	24.3	11500	28.4	14560	61							
	60	18.1	2610	21.4	7040	25.2	11000	29.6	14580	34.6	18180	72							
	65	21.5	4260	25.4	9300	29.6	13680	34.9	17720	40.9	21870	82							
	70	24.9	6010	29.3	11620	34.4	16390	40.3	20890	47.2	25590	92							
	75	26.3	7900	33.3	13960	39.0	19080	45.7	24030	53.4	29290	102							
80	31.6	9880	37.1	16270	43.5	21740	50.9	27140	59.5	32940	112								
55	55	12.2	1540	14.5	4350	17.0	7120	20.0	9620	23.4	12080	50							
	60	15.2	2630	16.0	6220	21.1	9430	24.8	12340	29.0	15300	60							
	65	16.3	4010	21.6	6240	25.3	11830	29.7	15170	34.7	18540	70							
	70	21.4	5620	25.2	10330	29.6	14280	34.6	18050	40.5	22040	79							
	75	24.6	7350	26.9	12440	33.8	16740	33.6	20950	46.3	25460	89							
	80	27.7	9150	32.5	14540	36.1	19190	44.6	23630	52.1	28870	98							
60	60	12.6	2410	15.0	5410	17.7	6020	20.7	10410	24.3	12850	50							
	65	15.6	3660	16.3	7210	21.5	10170	25.2	12940	29.5	15950	59							
	70	18.4	5140	21.7	9060	25.4	12360	29.8	15560	34.8	18950	68							
	75	21.4	6720	25.1	10990	29.4	14620	34.4	18220	40.2	22100	77							
80	24.3	6350	26.5	12910	33.3	16880	39.0	20900	45.6	25270	86								
65	65	13.2	3310	15.5	6260	16.2	8700	21.4	11020	25.0	13470	50							
	70	15.9	4640	16.6	7940	21.8	10700	25.5	13390	29.9	16280	58							
	75	18.5	6060	21.8	8660	25.5	12750	29.8	15830	34.9	19170	67							
	80	21.3	7540	24.9	11410	29.2	14620	34.1	16300	39.9	22110	75							
70	70	13.6	4140	16.0	6900	18.7	9230	21.9	11510	25.6	13980	50							
	75	16.1	5420	18.9	6460	22.1	11090	25.9	13740	30.2	16620	58							
	80	18.6	6760	21.8	10060	25.5	13000	29.9	16020	34.9	19330	65							
75	75	14.0	4810	16.4	7390	19.2	9640	22.4	11920	26.2	14410	50							
	80	16.3	6020	19.1	8850	22.4	11390	26.1	14010	30.5	16300	57							
80	80	14.3	5340	16.7	7770	19.6	9970	22.9	12260	26.7	14780	50							

TABLE 47.--CURRENT AND PROJECTED CORD(C5) AND BOARD FOOT INT. 1/4(BF) VOLUME AND
TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE	FINAL AGE	SITE INDEX										PROJECTED BASAL AREA	
		50		60		70		80		90			
		CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	CDS.	FBM.		
YEARS		60 SQ. FT. INITIAL BASAL AREA											
20	20	3.7	0	6.3	0	8.4	170	10.4	130	12.6	390	60	
	25	e.5	0	12.7	30	16.3	30	20.0	600	24.0	1560	89	
	30	14.0	10	20.0	110	25.3	530	30.7	1670	36.7	3890	116	
	35	19.8	40	27.5	300	34.4	1260	41.7	3520	49.6	7480	139	
	40	25.7	90	35.0	650	43.4	2460	52.3	6270	62.2	12250	160	
	45	31.5	200	42.1	1260	52.0	4260	62.4	9920	74.1	17970	179	
50	37.5	400	49.0	2190	60.0	6720	71.9	14370	85.2	24380	195		
25	25	6.8	0	9.1	30	11.4	180	13.8	610	16.4	1540	60	
	30	11.8	10	15.3	130	18.8	620	22.5	1860	26.8	4110	83	
	35	17.2	50	21.9	380	26.7	1540	32.0	4090	37.9	8070	105	
	40	2.1	120	28.7	650	34.8	3100	41.5	7320	49.1	13160	125	
	45	28.3	280	35.4	1680	42.7	5350	50.9	11420	60.1	19020	144	
	50	33.7	560	41.9	2920	50.4	8310	59.8	16190	70.6	25320	160	
55	39.1	1010	49.1	4650	57.6	11880	68.3	21400	80.6	31780	175		
30	30	9.0	10	11.3	140	13.7	630	16.4	1810	19.4	3770	60	
	35	13.7	50	17.0	420	20.5	1650	24.4	4120	28.8	7610	79	
	40	18.7	150	23.0	1000	27.6	3400	32.8	7460	38.7	12510	98	
	45	28.9	350	29.1	2000	39.8	5910	41.3	11610	48.6	18040	116	
	50	33.9	700	35.1	3490	41.9	9090	49.6	17280	58.4	23900	132	
	55	38.8	1280	41.0	5510	48.8	12800	57.6	21230	67.8	29820	147	
60	38.8	2140	46.6	8040	55.3	16840	65.3	26270	76.7	35680	160		
35	35	10.7	50	13.0	430	15.6	1600	18.5	3780	21.8	6620	60	
	40	15.0	160	18.3	1050	21.8	3400	25.8	6960	30.4	11030	77	
	45	13.6	390	23.7	2160	28.2	5940	33.4	10860	39.2	15040	93	
	50	21.3	820	23.2	3900	34.7	9110	41.0	15210	48.1	21330	108	
	55	26.9	1500	34.7	5960	41.1	12700	48.4	19760	56.9	26700	123	
	60	33.5	2520	40.0	8520	47.3	16530	55.7	24360	65.4	32030	136	
65	38.0	3900	45.1	11600	53.3	20450	62.7	28890	73.6	37220	149		
40	40	12.0	170	14.4	1040	17.1	3160	20.3	6120	23.8	9310	60	
	45	16.0	420	19.2	2180	22.8	5590	26.9	9650	31.6	13720	75	
	50	20.3	890	24.2	3860	26.7	8580	33.8	13570	39.7	18440	89	
	55	24.5	1650	23.2	6060	34.5	11930	40.7	17630	47.7	23260	103	
	60	28.8	2770	34.2	8660	40.4	15460	47.5	21860	55.7	28130	116	
	65	33.0	4270	39.1	11530	46.0	13040	54.1	25990	63.4	32900	128	
70	37.1	6130	43.8	14540	51.5	22580	60.5	30030	70.9	37550	139		
45	45	13.0	420	15.6	2080	18.4	5020	21.7	8290	25.5	11490	60	
	50	16.8	910	20.0	3720	23.6	7750	27.8	11780	32.7	15550	73	
	55	20.7	1720	24.6	5840	29.0	10000	34.1	15460	40.0	19990	86	
	60	24.6	2890	29.2	8310	34.4	14000	40.4	19230	47.4	24380	98	
	65	28.5	4440	33.7	10990	39.7	17260	46.6	23000	54.6	28770	110	
	70	32.4	6300	38.2	13770	44.9	20430	52.7	26710	61.7	33080	121	
75	36.2	8410	42.6	16560	50.0	23650	58.6	30340	68.6	37300	132		
50	50	13.9	900	16.5	3450	19.5	6820	22.9	10040	26.9	13130	60	
	55	17.4	1710	20.6	5430	24.3	3540	28.6	13320	33.5	17000	72	
	60	21.0	2890	24.3	7710	29.3	12430	34.4	16720	40.3	20980	83	
	65	24.7	4420	29.1	10170	34.2	15380	40.1	20150	47.0	25000	94	
	70	26.3	6240	33.3	12710	39.1	18330	45.9	23570	53.7	29000	105	
	75	31.3	8250	37.5	15260	44.0	21240	51.5	26940	60.3	32950	116	
80	35.4	10370	41.5	17770	48.7	24080	57.0	30240	66.6	36810	125		
55	55	14.6	1650	17.3	4910	20.4	8300	23.9	11370	28.1	14380	60	
	60	17.9	2800	21.2	6390	24.9	10830	29.2	14420	34.2	17970	71	
	65	21.3	4270	25.1	9230	29.5	13550	34.6	17540	40.5	21640	81	
	70	24.7	5990	29.0	11540	34.1	16240	39.9	20690	46.7	25340	91	
	75	28.0	7870	32.9	13860	38.6	18920	45.2	23820	52.9	29020	101	
	80	31.4	9830	36.8	16160	43.1	21560	50.4	26910	59.0	32660	111	
60	60	15.3	2630	18.0	6230	21.2	9450	24.8	12380	29.1	15350	60	
	65	18.4	4020	21.6	8250	25.4	11860	29.8	15210	34.8	18690	70	
	70	21.5	5620	25.3	10350	29.7	14310	34.7	18100	40.7	22100	79	
	75	24.7	7360	29.0	12470	33.9	16780	39.7	21000	46.5	25530	89	
	80	27.8	9160	32.6	14570	38.2	19230	44.7	23890	52.2	28940	98	
	65	65	15.8	3710	18.6	7310	21.9	10330	25.6	13160	30.0	16120	60
70		18.7	5190	22.0	9210	25.8	12560	30.2	15800	35.4	19250	69	
75		21.7	6790	25.4	11140	29.8	14830	34.9	18490	40.8	22430	78	
80		24.6	8430	28.9	13080	33.8	17110	39.5	21190	46.2	25620	87	
70	70	16.3	4730	19.2	8140	22.5	11000	26.3	13780	30.8	16750	60	
	75	19.1	6190	22.3	9900	26.2	13080	30.6	16260	35.8	19690	68	
	80	21.8	7690	25.6	11690	29.9	15190	35.0	18770	40.9	22670	77	
75	75	16.7	5590	19.6	8780	23.0	11520	26.9	14280	31.4	17280	60	
	80	19.3	6970	22.6	10420	26.5	13480	31.0	16610	36.2	20060	68	
80	80	17.1	6280	20.0	9270	23.4	11940	27.4	14700	32.0	17740	60	

TABLE 48.--CURRENT AND PROJECTED CORD(C5) AND BOARD FOOT INT. 1/4(BF) VOLUME AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED	
INITIAL AGE	FINAL AGE	50		60		70		80		90		BASAL AREA	
YEARS		CDS.	FEM.	CDS.	FEM.	CDS.	FEM.	CDS.	FEM.	CDS.	FEM.	SO. FT.	
70 SQ. FT. INITIAL BASAL AREA													
20	20	3.7	0	7.0	0	9.6	30	12.0	130	14.7	400	70	
	25	14.1	8.6	21.5	13.9	27.6	18.2	400.100	22.4	33.4	1540	101	
	30											128	
	35	19.7	30	29.2	270	37.1	1130	45.1	3240	54.0	7030	152	
	40	25.5	80	36.8	580	45.3	2220	56.1	5770	66.9	11560	173	
	45	31.5	180	44.1	1110	55.0	3840	66.4	9170	79.0	17090	191	
	50	37.7	350	51.1	1940	63.2	6100	76.1	13420	90.3	23410	207	
25	25	7.6	0	10.5	30	13.1	180	16.0	620	19.1	1580	70	
	30	18.5	40	17.1	120	21.1	600	25.5	1820	30.3	4100	95	
	35	24.2	110	24.1	350	29.6	1450	45.3	35.5	7030	38.9	117	
	40			31.1	790	38.0	2880					136	
	45	29.9	250	38.0	1520	46.2	4980	55.2	11000	65.3	18910	157	
	50	35.5	490	44.7	2650	54.0	7770	64.4	15700	75.1	25310	173	
	55	41.0	890	51.0	4230	61.4	11210	73.0	20930	86.2	31950	188	
30	30	10.3	10	13.1	130	15.9	630	19.1	1860	22.6	3980	70	
	35	15.3	50	19.2	410	23.2	1620	27.7	4170	32.8	7930	91	
	40	20.6	140	25.6	950	30.0	3300	36.7	7500	43.3	12960	110	
	45	25.9	320	32.0	1870	38.4	5720	45.6	11670	53.7	18690	128	
	50	31.2	640	38.2	3250	45.7	8830	54.2	16420	63.9	24780	144	
	55	36.4	1160	44.2	5150	52.8	12510	62.5	21520	73.5	30960	159	
	60	41.4	1940	50.0	7580	59.5	16800	70.3	26750	82.7	37080	173	
35	35	12.3	160	15.1	430	18.1	1650	21.5	4000	25.4	7200	70	
	40	17.0		20.7	1040	24.8	3440	29.4	7300	34.7	11900	88	
	45	21.9	370	26.6	2090	31.7	5980	37.5	11360	44.2	17210	105	
	50	26.8	760	32.3	3670	30.5	9180	45.5	15900	53.5	22820	121	
	55	31.6	1390	38.0	5770	45.2	12860	53.3	20680	62.6	28500	135	
	60	36.3	2330	43.5	8370	51.6	16830	60.8	25520	71.4	34110	149	
	65	40.9	3620	48.8	11370	57.7	20920	67.3	30300	79.8	39560	161	
40	40	13.8	160	16.7	1060	19.9	3330	23.6	6670	27.8	10400	70	
	45	18.2	410	21.9	2190	26.1	5850	30.8	10450	36.2	15180	86	
	50	22.7	850	27.3	3850	32.3	8960	38.1	14640	44.8	20260	101	
	55	27.2	1570	32.5	6050	38.5	12470	45.4	19030	53.3	25430	115	
	60	31.7	2630	37.7	8690	44.6	16200	52.5	23470	61.6	30580	128	
	65	36.0	4060	42.8	11640	50.5	19990	53.3	27850	69.6	35610	140	
	70	40.3	5870	47.5	14780	56.1	23750	65.9	32110	77.3	40480	152	
45	45	15.1	420	18.1	2160	21.4	5440	25.3	9250	29.7	13050	70	
	50	19.2	900	22.9	3840	27.1	8350	31.9	13050	37.5	17600	84	
	55	23.3	1680	27.8	6020	32.8	11620	38.6	17040	45.3	22290	97	
	60	27.5	2820	32.6	8590	38.5	15050	45.3	21080	53.1	27000	110	
	65	31.6	4340	37.4	11410	44.1	18540	51.8	25110	60.7	31650	122	
	70	35.6	6210	42.1	14360	49.5	21990	58.1	29050	68.0	36200	134	
	75	39.5	8350	46.6	17330	54.1	25350	64.2	32870	75.1	40620		
50	50	16.1	910	19.2	3670	22.7	7560	26.7	11390	31.3	15080	70	
	55	20.0	1720	23.7	5760	27.9	10530	32.8	14990	38.5	19310	83	
	60	23.0	2900	28.2	8200	33.2	13670	39.0	18670	45.7	23620	95	
	65	27.7	4450	32.7	10830	38.5	16850	45.1	22370	52.9	27920	106	
	70	31.5	6310	37.1	13560	43.6	20020	51.1	26020	59.9	32170	117	
	75	35.2	8400	41.4	16300	48.6	23130	57.0	29590	66.7	36330	128	
	80	38.8	10640	45.6	18990	53.5	26150	62.6	33060	73.3	40370	138	
55	55	17.0	1710	20.2	7620	23.6	9370	27.9	13040	32.7	16620	70	
	60	20.6	2890	24.3	10050	28.6	12210	33.6	16390	39.4	20550	81	
	65	24.2	4410	28.5		33.5	15120	39.3	19780	46.1	24520	92	
	70	27.8	6210	32.7	12560	38.4	18030	45.0	23160	52.1	28470	103	
	75	31.3	8210	36.8	15070	43.2	20910	50.6	26490	59.2	32380	113	
	80	34.8	10310	40.8	17550	47.9	23730	56.0	29760	65.5	36210	123	
60	60	17.8	2790	21.0	6950	24.7	10800	28.9	14290	33.9	17810	70	
	65	21.1	4260	24.9	9170	29.2	13450	34.3	17400	40.1	21460	80	
	70	24.5										91	
	75	27.8	5870	30.8	11470	33.8	16130	44.9	20530	52.5	25140	101	
	80	31.2	9800	36.5	16060	42.0	21420	50.1	26720	58.6	32430	110	
65	65	18.4	4030	21.7	8270	25.5	11890	29.8	15260	34.9	18750	70	
	70	21.6	5630	25.4	10370	29.7	14350	34.8	18150	40.6	22160	80	
	75	24.7	7370	29.0	12490	34.0	16820	39.8	21060	46.6	25590	89	
	80	27.9	9180	32.7	14600	38.3	19280	44.6	23950	52.4	29010	98	
70	70	19.0	5240	22.3	9320	26.2	12730	30.6	16020	35.8	19510	70	
	75	22.0	6840	25.8	11260	30.2	15010	35.3	18720	41.3	22720	79	
	80	24.9	8510	29.2	13220	34.2	17310	40.0	21440	46.6	25930	88	
75	75	19.5	6290	22.9	10120	26.6	13380	31.3	16630	36.6	20150	70	
	80	22.3	7820	26.1	11920	30.6	15520	35.8	19170	41.6	23170	76	
80	80	19.9	7150	23.4	10730	27.3	13900	32.0	17140	37.4	20690	70	

TABLE 49.--CURRENT AND PROJECTED CORD(C5) AND BOARD FOOT INT. 1/4(BF) VOLUME AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED	
INITIAL AGE	FINAL AGE	50		60		70		80		90		BASAL AREA	SQ. FT.
YEARS		CDS.	FEM.	CDS.	FEM.	CDS.	FEM.	CDS.	FEM.	CDS.	FEM.		
80 SQ. FT. INITIAL BASAL AREA													
20	20	0	14.8	30	10.7	30	13.6	130	16.6	390		80	
	25	0	14.8	30	10.7	30	13.6	130	16.6	390		112	
	30	13.3	10	22.8	30	13.3	8.1	29.7	440	36.6	1420	140	
	35	18.7	30	30.5	240	39.5	1020	48.3	2950	57.9	6540	164	
	40	24.4	70	38.2	520	49.9	1990	59.5	5280	11.2	10600	185	
	45	30.4	160	45.6	990	57.7	3470	70.0	8450	83.5	16110	203	
25	50	37.0	310	52.7	1730	66.0	5540	79.8	12470	94.9	22300	219	
	25	8.2	0	11.7	30	14.9	170	18.1	610	21.7	1580	80	
	30	13.6	10	18.7	120	23.4	560	28.3	1750	33.8	4010	106	
	35	19.4	40	26.0	320	32.2	1350	38.8	3730	46.2	7760	129	
	40	25.2	100	33.3	710	41.0	2660	49.2	6640	58.4	12680	150	
	45	31.0	220	40.3	1380	49.4	4600	59.1	10460	70.1	18510	169	
30	50	36.8	440	47.1	2390	57.3	7210	68.5	15050	81.1	24940	185	
	55	42.5	800	53.6	3840	64.9	10500	77.3	20230	91.4	31700	200	
	30	11.4	10	14.7	130	18.1	620	21.7	1870	25.7	4090	80	
	35	16.7	50	21.3	300	25.9	1570	30.9	4120	36.7	8060	102	
	40	22.2	130	28.0	880	33.9	3150	40.4	7330	47.7	13150	122	
	45	27.7	290	34.6	1730	41.7	5450	49.6	11510	58.6	18990	140	
35	50	33.2	580	41.0	3000	49.3	8450	58.5	16290	69.0	25250	156	
	55	38.5	1040	47.2	4780	56.5	12060	67.0	21470	78.9	31650	171	
	60	43.7	1750	53.1	7070	63.3	16140	74.9	26850	88.2	38000	185	
	35	13.8	50	17.1	420	20.6	1650	24.5	4130	29.0	7630	80	
	40	18.8	150	23.1	1000	27.8	3400	33.0	7470	38.9	12540	99	
	45	23.9	340	29.2	1990	35.0	5900	41.5	11620	48.9	18080	116	
40	50	29.0	700	35.3	3480	42.1	9080	49.8	16290	58.6	23950	132	
	55	34.0	1270	41.1	5500	49.0	12790	57.8	21250	68.1	29990	147	
	60	38.9	2130	46.8	8020	55.5	16840	65.5	26300	77.1	35760	161	
	65	43.6	3330	52.2	10990	61.8	21070	72.8	31300	85.6	41450	174	
	40	15.6	160	19.0	1060	22.1	3420	26.9	7080	31.7	11310	80	
	45	20.3	390	24.6	2150	29.3	5970	34.6	11040	40.7	16420	96	
45	50	25.1	800	30.2	3770	35.8	9150	42.3	15450	49.8	21810	112	
	55	29.8	1460	35.7	5930	42.3	12780	49.9	20070	58.6	27280	126	
	60	34.4	2380	41.1	6560	43.6	16650	57.2	24740	67.2	32690	140	
	65	38.9	3780	46.2	11550	54.6	20620	64.3	29350	75.4	37960	153	
	70	43.2	5560	51.2	14780	60.4	24580	71.0	33830	83.3	43050	164	
	45	17.1	410	20.6	2190	24.4	5730	26.8	10060	33.9	14460	80	
50	50	21.5	870	25.1	3870	30.5	8790	35.9	14120	42.2	19360	95	
	55	25.9	1610	30.9	6070	36.5	12230	43.0	18380	50.5	24370	109	
	60	30.2	2710	35.9	8700	42.4	15850	49.9	22680	53.6	29360	122	
	65	34.5	4180	40.9	11610	48.2	19540	56.7	26940	66.5	34260	134	
	70	38.6	6010	45.7	14690	53.8	23200	63.2	31090	74.0	39030	146	
	75	42.7	8170	50.3	17330	59.2	26750	69.4	35090	81.3	43620	156	
55	50	18.3	900	21.9	3810	25.9	8160	30.4	12610	35.7	16920	80	
	55	22.4	1700	26.6	5970	31.5	11350	37.0	16500	43.4	21480	93	
	60	26.5	2350	31.4	8510	37.0	14700	43.5	20450	51.0	26080	106	
	65	30.5	4380	36.1	11290	42.5	18110	49.9	24390	58.5	30650	118	
	70	34.5	6250	40.7	14180	47.9	21480	56.2	28240	65.8	35110	129	
	75	38.4	8490	45.2	17090	53.1	24780	62.2	31990	72.8	39460	140	
60	80	42.1	10720	49.5	19950	58.1	27970	68.0	35620	79.6	43660	150	
	55	19.4	1720	23.0	5700	27.1	10320	31.8	14610	37.3	18780	90	
	60	23.2	2910	27.4	8100	32.3	13390	37.9	18230	44.5	23010	92	
	65	27.0	4450	31.9	10700	37.5	16530	44.0	21860	51.5	27250	104	
	70	30.7	6300	36.2	13380	42.6	19640	49.9	25460	58.5	31440	115	
	75	34.4	8380	40.5	16070	47.5	22710	55.7	28990	65.2	35550	125	
65	80	38.1	10590	44.7	18720	52.4	25690	61.3	32420	71.8	39550	135	
	60	20.2	2880	23.9	7540	23.1	12050	33.0	16140	38.7	20210	80	
	65	23.8	4400	28.1	9950	33.0	14930	38.7	19490	45.3	24150	91	
	70	27.4	6190	32.2	12430	37.8	17810	44.4	22340	51.9	28070	102	
	75	30.9	8170	36.3	14920	42.6	20660	49.9	26150	58.4	31950	112	
	80	34.4	10260	40.3	17380	47.2	23450	55.3	29400	64.7	35760	122	
70	65	21.0	4250	24.7	9130	29.1	13380	34.1	17300	39.9	21340	80	
	70	24.4	5960	29.7	11420	33.6	16050	39.4	20420	46.1	25010	90	
	75	27.1	7830	32.5	13720	38.1	18710	44.7	23530	52.3	28670	100	
	80	31.0	9770	36.4	16000	42.6	21330	49.9	26600	58.3	32280	110	
75	70	21.1	5640	25.5	10410	29.9	14410	35.0	18220	40.9	22250	80	
	75	24.8	7390	29.1	12530	34.2	16880	40.0	21130	46.8	25690	89	
	80	28.0	9200	32.8	14650	38.4	19340	44.9	24040	52.5	29110	99	
80	75	22.2	6900	26.1	11390	30.6	15200	35.8	18960	41.9	23000	80	
	80	25.2	8580	29.6	13360	34.6	17510	40.5	21690	47.3	26240	89	
80	80	22.8	7940	26.7	12150	31.2	15830	36.5	19560	42.7	23640	80	

TABLE 50.--CURRENT AND PROJECTED CORO(C5) AND BOARD FOOT INT. 1/4(BF) VOLUME AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE		FINAL AGE	SITE INDEX										PROJECTED BASAL AREA		
			50		60		70		80		90				
YEARS			CDS.	FBM.	CDS.	FBM.	CDS.	FEM.	CDS.	FEM.	CDS.	FBM.	SO. FT.		
90 SQ. FT. INITIAL BASAL AREA															
20	20	2.4	0	8.0	0	11.8	30	15.1	120	18.6	380	90			
	25	6.7	10	15.5	20	21.4	140	26.9	500	47.6	1330	123			
	30	11.4	10	23.4	60	31.5	400	39.2	1300	61.3	3170	151			
	35	16.3	20	31.3	210	41.5	920	51.3	2690	75.1	6050	176			
	40	21.8	60	39.0	460	51.1	1790	62.7	4810	75.1	10040	196			
	45	28.1	140	46.5	890	60.0	3130	73.3	7750	67.6	15100	214			
25	50	35.2	290	53.8	1550	68.4	5030	83.1	11550	99.1	21100	229			
	25	14.18.6	100	20.2	12.0	25.5	16.5	530	20.2	1650	24.3	37.1	300	150	90
	30	19.8	30	27.7	290	34.7	1240	42.0	3500	50.1	7440	141			
	35	25.7	90	35.2	650	43.7	2440	52.7	6230	67.5	12190	162			
	40	31.6	200	42.3	1240	52.3	4220	62.8	9850	78.1	17890	180			
	45	37.5	390	49.2	2160	60.4	6660	72.3	14280	96.1	24300	196			
30	55	43.5	710	55.8	3480	68.0	9770	81.2	19390	96.1	31130	211			
	30	12.4	10	16.4	130	20.2	610	24.3	1040	28.9	4110	90			
	35	18.0	40	23.2	360	26.4	1490	34.1	4010	40.4	8040	112			
	40	23.6	120	30.2	820	36.7	2970	43.9	7150	52.0	13110	133			
	45	29.3	260	37.0	1530	44.8	5140	53.4	11190	63.2	19000	151			
	50	34.8	520	43.5	2760	52.6	8600	62.6	15930	73.9	25360	168			
35	55	40.3	940	49.8	4400	59.9	11500	71.2	21150	84.0	31930	183			
	60	45.6	1580	55.8	6560	66.9	15530	79.2	26640	93.4	36500	196			
	35	15.2	50	19.1	410	23.1	1630	27.5	4170	32.5	7910	90			
	40	20.5	140	25.4	950	30.6	3310	36.4	7500	43.0	12940	109			
	45	25.8	320	31.8	1880	38.2	5730	45.3	11670	53.4	18660	127			
	50	31.1	640	38.0	3270	45.5	8850	53.9	16420	63.6	24740	144			
40	55	36.2	1160	44.0	5180	52.5	12530	62.2	21510	73.2	30910	159			
	60	41.2	1950	49.8	7600	59.3	16620	70.0	26730	82.4	37010	172			
	65	46.1	3060	55.3	10500	65.6	20950	77.4	31930	91.0	42930	195			
	40	17.4	150	21.2	1030	25.4	3430	30.2	7350	35.6	12050	90			
	45	22.3	370	27.1	2070	32.4	5980	38.3	11430	45.1	17410	107			
	50	27.2	750	33.0	3630	39.2	9180	46.4	16000	54.6	23060	123			
45	55	32.1	1370	38.7	5720	45.9	12860	54.2	20820	63.8	28810	138			
	60	36.9	2290	44.2	8310	52.4	16850	61.8	25710	72.6	34470	151			
	65	41.5	3560	49.5	11300	56.6	20210	69.0	30530	81.0	39970	164			
	70	46.0	5220	54.6	14580	64.5	25110	75.8	35210	88.9	45260	176			
	45	19.1	400	23.0	2170	27.4	5910	32.3	10710	38.1	15710	90			
	50	23.7	630	26.5	3830	33.8	9060	39.8	15400	46.8	20920	105			
50	55	28.3	1530	33.8	6010	40.1	12620	47.2	19490	55.5	26220	120			
	60	32.8	2560	39.1	8650	46.2	16410	54.4	24020	63.9	31470	133			
	65	37.2	3970	44.2	11630	52.2	20280	61.4	28500	72.0	36610	145			
	70	41.5	5750	49.1	14810	57.9	24130	68.0	32850	79.8	41570	157			
	75	45.6	7880	53.9	18080	63.4	27870	74.4	37030	87.1	46330	168			
	50	20.5	880	24.5	3870	29.0	8630	34.2	13680	40.2	18620	90			
55	55	24.8	1640	29.5	6060	34.9	11990	41.1	17830	48.3	23500	104			
	60	29.1	2760	34.5	8670	40.8	15540	47.9	22020	56.2	26370	117			
	65	33.3	4250	39.4	11550	46.5	19140	54.6	26180	64.0	33170	129			
	70	37.4	6110	44.2	14810	52.0	22710	61.0	30240	71.5	37940	141			
	75	41.4	8260	48.2	17600	57.3	26190	67.2	34170	70.7	42360	151			
	80	45.2	10640	53.2	20670	62.4	29540	73.1	37950	85.6	46700	162			
60	55	21.7	1710	25.8	5920	30.4	11120	35.8	16060	42.0	20850	90			
	60	25.7	2870	30.5	8430	35.9	14410	42.2	19940	49.5	25360	102			
	65	29.7	4410	35.1	11170	41.3	17750	48.5	23800	56.9	29950	114			
	70	33.6	6280	39.6	14010	46.6	21070	54.7	27600	64.1	34250	126			
	75	37.4	8410	44.1	16870	51.8	24310	60.7	31300	71.0	38540	136			
	80	41.2	10710	48.4	19690	56.7	27450	66.4	34880	77.7	42700	147			
65	60	22.7	2910	26.8	8020	31.6	13180	37.1	17890	43.5	22550	90			
	65	26.5	4450	31.2	10590	36.7	16270	43.1	21460	50.5	26740	101			
	70	30.2	6290	35.6	13240	41.8	19350	49.0	25040	57.4	30990	112			
	75	33.9	8360	39.8	15900	46.7	22380	54.8	26530	64.1	34970	123			
70	80	37.4	10550	44.0	18520	51.5	25330	60.3	31930	70.6	38940	133			
	65	23.5	4390	27.8	9880	32.6	14790	36.3	19290	44.8	23890	90			
	70	27.1	6170	31.9	12350	37.5	17650	43.9	22620	51.4	27790	101			
	75	30.6	8150	36.0	14620	42.2	20490	49.4	25920	57.8	31650	111			
75	80	34.1	10220	40.0	17260	46.8	23260	54.8	29150	64.1	35440	121			
	70	24.3	5950	28.6	11410	33.6	16020	39.3	20380	46.0	24960	90			
	75	27.6	7620	32.5	13700	38.1	18680	44.6	23490	52.2	28610	100			
	80	31.0	9760	36.3	15980	42.5	21300	49.8	26560	58.2	32230	109			
80	75	25.0	7420	29.3	12600	34.4	16960	40.2	21260	47.0	25840	90			
	80	28.1	9230	33.0	14720	39.6	19450	45.2	24170	52.6	29280	99			
80	80	25.6	8660	30.0	13520	35.1	17730	41.0	21970	48.0	26580	90			

TABLE 51.--CURRENT AND PROJECTED CORD(CS) AND BOARD FOOT INT. 1/4(BF) VOLUME AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED BASAL AREA	
INITIAL AGE	FINAL AGE	50		60		70		80		90		SQ. FT.	
YEARS		CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	CDS.	FBM.		
100 SQ. FT. INITIAL BASAL AREA													
20	20	7.7	0	8.2	0	12.7	30	16.6	120	20.5	360	100	
	25	4.3	0	15.8	20	22.7	130	29.9	460	35.3	1240	134	
	30	7.9	20	23.7	70	33.1	370	41.6	1180	50.5	2910	162	
	35	12.0	60	31.6	190	43.3	830	53.9	2450	65.1	5560	186	
	40	17.2	120	39.3	410	52.9	1620	65.5	4380	79.9	9290	207	
	45	23.9	120	47.0	790	62.0	2930	76.2	7110	91.4	11100	224	
50	31.9	250	51.5	1400	70.5	4570	66.1	10680	103.0	19890	239		
25	25	8.6	0	13.9	30	18.1	160	22.3	570	26.9	1500	100	
	30	14.1	10	21.4	100	27.5	490	33.6	1550	40.3	3680	127	
	35	19.8	30	29.2	270	37.0	1140	45.0	3250	53.8	7050	152	
	40	25.6	60	36.7	580	46.2	2230	55.9	5790	66.7	11450	173	
	45	31.5	190	44.0	1120	54.9	3860	66.2	9210	78.6	23460	191	
	50	37.7	350	51.0	1950	63.1	6130	15.9	13470	90.1	207	207	
55	44.0	640	57.7	3160	70.9	9060	84.8	18450	100.5	30320	221		
30	30	13.3	10	17.9	120	22.2	580	26.8	1790	32.0	4070	100	
	35	18.9	40	25.0	340	30.9	1400	37.1	3840	44.1	7890	123	
	40	24.7	110	32.2	750	39.5	2780	47.3	6850	56.1	12890	144	
	45	30.5	240	39.2	1450	47.8	4800	57.1	10750	67.6	18750	162	
	50	36.2	470	45.9	2520	55.7	7510	66.4	15410	78.5	25170	179	
	55	41.8	840	52.3	4040	63.1	10880	75.1	20620	88.7	31870	194	
60	47.3	1420	58.4	6060	70.1	14920	83.2	26180	98.2	38630	207		
35	35	16.5	50	21.0	390	25.5	1580	30.5	4130	36.1	9050	100	
	40	22.0	130	27.6	890	33.4	3180	39.8	7410	47.1	13140	120	
	45	27.5	290	34.2	1750	41.2	5490	49.0	11550	57.9	19970	139	
	50	32.9	580	40.6	3040	49.7	8510	57.9	16320	68.3	25200	155	
	55	38.2	1060	46.7	4840	55.9	12130	66.3	21500	78.1	31570	170	
	60	43.3	1790	52.6	7150	62.6	16220	74.2	28100	87.4	37690	183	
65	48.3	2730	58.2	9960	69.2	20610	81.7	32240	96.2	44040	196		
40	40	19.0	150	23.4	1000	29.1	3330	33.4	7480	39.4	12600	100	
	45	24.2	340	29.6	1980	35.4	5990	42.0	11630	48.5	18170	118	
	50	29.3	690	35.6	3450	42.5	9060	50.3	16320	57.3	24060	134	
	55	34.3	1260	41.5	5460	49.4	12760	59.4	21300	68.7	30040	149	
	60	39.2	2110	47.2	7970	56.0	16820	66.1	26370	77.7	35930	162	
	65	44.0	3300	52.6	10930	62.3	21070	73.4	31390	86.3	41650	175	
70	48.5	4860	57.8	14230	68.3	25360	80.4	36280	91.3	47140	186		
45	45	21.0	390	25.4	2130	30.3	5960	35.9	11190	42.2	16780	100	
	50	25.8	780	31.1	3730	37.0	9180	43.7	15660	51.4	22270	116	
	55	30.6	1440	36.7	5870	43.6	12830	51.4	20360	60.4	27930	130	
	60	35.2	2400	42.1	8490	49.9	16750	58.8	25100	69.1	33330	144	
	65	39.8	3740	47.4	11480	56.0	20770	65.9	29790	77.3	38680	156	
	70	44.2	5450	52.4	14730	61.8	24790	72.7	34330	85.2	43930	169	
75	48.4	7520	57.2	18110	67.4	28720	79.1	36700	92.7	49760	179		
50	50	22.6	950	27.1	3860	32.2	8950	37.9	14590	44.6	20190	100	
	55	27.1	1570	32.4	6050	39.3	12110	45.2	19970	53.0	25340	114	
	60	31.5	2640	37.6	8690	44.4	16170	52.2	23400	61.3	30470	127	
	65	35.9	4080	42.6	11640	50.3	19950	58.1	27760	69.3	35490	140	
	70	40.1	5890	47.5	14780	55.9	23700	65.7	32020	77.0	40350	152	
	75	44.2	9030	52.2	17980	61.3	27360	72.0	36110	84.3	45030	162	
80	48.1	10430	55.7	21170	66.5	30880	76.0	40040	91.3	49510	173		
55	55	24.0	1670	29.5	6040	33.7	11780	39.7	17390	46.6	22800	100	
	60	29.2	2600	33.4	9630	39.5	15270	46.4	21490	54.4	27580	113	
	65	32.3	4310	39.3	11480	45.1	18800	53.0	25570	62.1	32300	125	
	70	35.9	6170	44.1	15150	50.5	22300	59.3	29560	69.5	36900	137	
	75	40.3	8640	48.8	19150	55.9	25710	65.4	33430	76.6	41360	147	
	80	44.1	10680	51.9	20450	60.9	29010	71.3	37150	93.5	45650	158	
60	60	25.1	2690	29.7	9370	35.1	14190	41.2	19540	46.3	24820	100	
	65	29.0	4430	34.3	11070	40.4	17480	47.4	23350	55.6	29240	112	
	70	32.9	6300	38.8	13880	45.7	20750	53.6	27100	62.1	33600	123	
	75	36.7	8420	43.2	16700	50.9	23940	59.5	30760	69.7	37650	134	
	80	40.4	10700	47.5	19480	55.7	27050	65.2	34310	76.3	41970	144	
	65	65	26.1	4450	30.6	10510	36.2	16090	42.5	21200	49.9	26360	100
70		29.8	6290	35.1	13140	41.2	19140	48.4	24730	56.6	30500	111	
75		33.4	8340	39.3	15770	46.2	22150	51.1	28200	63.3	34550	121	
80		37.0	10520	43.5	18370	50.9	25070	59.6	31560	69.9	36500	131	
70	70	26.9	6160	31.7	12300	37.2	17560	43.6	22500	51.1	27630	100	
	75	30.4	8130	35.9	14760	42.0	20390	49.1	25790	57.5	31480	110	
	80	33.9	10200	39.8	17190	46.6	23150	54.5	29000	63.8	35260	120	
75	75	27.7	7620	32.5	13720	39.1	19700	44.6	23520	52.2	26650	100	
	80	31.0	9770	36.4	15990	42.6	21320	49.9	26590	56.3	32210	110	
80	80	28.3	9290	33.2	14820	36.9	19590	45.5	24350	53.2	29500	100	

TABLE 52.--CURRENT AND PROJECTED CORD(CS) AND BOARD FOOT INT. 1/4(BF) VOLUME AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED	
INITIAL AGE	FINAL AGE	50		60		70		80		90		BASAL AREA	
YEARS		CDS.	FEM.	CDS.	FEM.	CDS.	FEM.	CDS.	FEM.	CDS.	FEM.	SQ. FT.	
110 SO. FT. INITIAL BASAL AREA													
20	20	.1	0	8.1	20	13.5	30	17.9	420	21.3	340	110	
	25	2.0	10	23.5	70	29.8	120	43.8	180	55.4	1140	144	
	30											173	
	35	9.6	20	31.3	170	44.7	750	56.4	2220	68.4	5100	197	
	40	17.1	110	46.3	310	54.5	610	68.1	3100	82.1	13100	217	
	45											234	
25	50	26.8	220	54.7	1260	72.3	4170	88.9	9670	106.6	16580	249	
	25	8.2	0	14.7	30	19.6	150	24.3	540	29.4	1430	110	
	30	13.5	10	22.5	90	29.4	450	36.1	1440	43.4	3470	138	
	35	18.9	30	30.3	240	39.1	1040	47.8	3010	57.3	10390	162	
	40	24.6	70	38.0	530	48.5	2010	59.0	5360	70.5	11620	183	
	45	30.7	160	45.3	1010	57.3	3530	69.4	8570	82.8	22490	201	
30	50	37.2	320	52.5	1760	65.6	5630	79.2	12630	94.2	22490	217	
	55	43.9	570	59.3	2670	73.3	8390	88.2	17460	104.7	29320	231	
	30	13.8	10	19.3	110	24.2	550	29.4	1710	35.0	3960	110	
	35	19.6	40	26.7	310	33.2	1310	40.1	3640	47.7	7650	134	
	40	25.4	100	34.8	690	43.8	2580	50.6	6490	60.1	12510	155	
	45	31.3	210	41.1	1320	50.5	4450	60.6	10230	71.8	18290	173	
35	50	37.1	420	47.9	2300	58.5	7000	70.0	14760	82.9	24720	189	
	55	42.9	760	54.5	3700	66.1	10220	78.8	19920	93.2	31510	204	
	60	48.6	1280	60.7	5590	73.2	14050	87.0	25510	102.8	38430	217	
	35	17.7	40	22.8	370	27.9	1510	33.4	4040	39.6	8060	110	
	40	23.3	120	29.7	630	36.1	3020	43.1	7210	51.0	13140	130	
	45	26.9	270	36.4	1620	44.1	5210	52.6	11280	62.2	19020	149	
40	50	34.5	530	43.0	2810	51.3	8100	61.6	16030	72.8	25360	165	
	55	39.9	960	49.2	4490	59.2	11630	70.2	21250	82.8	31900	180	
	60	45.2	1610	55.2	6680	66.1	15680	78.3	26720	92.2	38420	194	
	65	50.3	2550	60.9	9380	72.6	20093	85.9	32250	101.0	44790	206	
	40	20.6	140	25.6	950	30.8	3300	36.6	7500	43.3	12960	110	
	45	25.31	23640	31.9	1870	38.4	5720	45.5	11670	53.7	18690	128	
45	50	32	36.3	1160	6	38.2	3250	45.7	8830	54.2	16420	144	
	55					44.2	5160	52.8	12510	62.4	21520	159	
	60	41.4	1940	50.0	7580	59.5	16600	70.3	26750	82.7	30700	173	
	65	46.2	3040	55.5	10470	65.9	20930	77.7	31960	91.3	43010	186	
	70	50.9	4510	60.7	13750	71.9	25360	84.7	37040	99.5	48700	197	
	45	22.8	360	27.8	2050	33.2	5960	39.3	11510	46.3	17650	110	
50	50	22.6	730	33.7	3580	40.2	9160	47.5	16120	55.9	23380	126	
	55	37.6	1240	39.9	5580	48.8	16860	63.8	28990	74.1	38920	141	
	60											155	
	65	42.2	3490	50.4	11210	58.5	25210	70.2	30800	82.5	40460	167	
	70	46.7	5120	55.5	14500	67.1	29310	77.1	35540	90.5	45820	179	
	75	51.0	7130	60.4	17960			83.6	40090	98.0	50920	189	
55	50	24.7	810	29.7	3790	36.3	9130	41.6	15330	48.9	21570	110	
	55	29.3	1490	35.2	5950	41.7	12740	49.1	19920	57.8	26990	124	
	60	33.9	2490	40.5	8590	47.9	16590	56.4	24550	66.3	32350	138	
	65	38.4	3860	45.7	11580	54.0	20540	63.5	29120	74.5	37590	151	
	70	42.7	5620	50.7	14800	59.7	24460	70.2	33560	82.3	42540	162	
	75	46.9	7720	55.4	18120	65.2	28250	76.6	37830	89.7	47480	173	
60	80	50.9	10120	60.0	21450	70.5	31980	82.6	41910	96.8	52090	183	
	55	26.2	1600	31.3	6070	37.0	12290	43.6	19540	51.1	24630	110	
	60	30.6	2690	36.4	8700	43.0	15940	50.5	22880	59.3	29660	123	
	65	34.9	4150	41.3	11630	48.8	19660	57.3	27160	67.2	34690	136	
	70	39.0	5980	46.2	14720	54.4	23330	63.8	31340	74.8	39380	147	
	75	43.1	8130	50.8	17670	59.7	26920	70.1	35370	82.1	43990	158	
65	80	47.0	10530	55.3	21000	64.9	30370	76.1	39230	89.0	48420	168	
	60	27.5	2820	32.6	8590	38.5	15050	45.2	21070	53.0	26980	110	
	65	31.6	4340	37.4	11410	44.0	18530	51.7	25090	60.6	31630	122	
	70	35.6	6210	42.0	14350	49.5	21960	58.0	29030	68.0	36180	134	
	75					54.7	25340	64.1	32650	75.1	40590	144	
	80	43.1	8130	46.1	17670		28600	70.0	36540	81.9	44850	155	
70	65	28.6	4440	33.8	11000	39.8	17270	46.7	23030	54.7	28810	110	
	70	32.4	6300	38.3	13780	45.0	20510	52.8	26750	61.6	33130	121	
	75	36.2	8410	42.6	16570	50.1	23660	58.7	30370	68.7	37340	132	
	80	39.9	10680	46.9	19320	55.0	26750	64.4	33900	75.3	41440	142	
75	70	29.5	6280	34.8	13070	40.9	19010	47.9	24540	56.1	30260	110	
	75	33.2	8330	39.0	15690	45.8	22000	53.7	27990	62.8	34290	120	
	80	36.7	10500	43.1	18270	50.6	24910	59.2	31360	69.3	38220	130	
80	75	30.4	8130	35.7	14740	41.9	20360	49.1	25740	57.4	31430	110	
	80	33.8	10190	39.7	17170	46.5	23120	54.4	28960	63.7	35210	120	
90	80	31.1	9790	36.5	16050	42.8	21410	50.1	26700	58.5	32410	110	

TABLE 53.--CURRENT AND PROJECTED CORD(CS) AND BOARD FOOT INT. 1/4(BF) VOLUME AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										I' PROJECTED I' BASAL AREA I' SQ. FT.
INITIAL AGE	FINAL AGE	60	70	60	70	60	70	60	70	60	70	
YEARS	I	CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	I
120 SQ. FT. INITIAL BASAL AREA												
20	20	7.7	0	14.2	20	19.2	110	24.1	320			120
	25	15.0	20	24.7	110	32.5	380	40.1	1050			155
	30	22.5	60	35.5	300	45.9	980	56.2	2440			183
	35	30.2	150	45.9	670	58.6	2010	71.4	4670			207
	40	36.0	330	55.7	1310	70.4	3630	85.4	7660			227
	45	6.4										243
	50	18.9	200 100	45.1 54.3	1140 640	65.0 73.6	2320 3600	81.3 91.4	9120 5960	109.9 96.2	12160 17510	257
25	25	7.2	0	15.3	20	21.0	140	26.3	510	31.9	1360	120
	30	12.0	10	23.2	80	31.1	410	36.5	1330	46.5	3240	146
	35	17.1	30	31.1	220	41.0	950	50.5	2760	60.7	6180	173
	40	28.8	70	36.6	460	50.5	1650	61.9	4930	74.1	10240	193
	45	35.8	200 140	45.1 53.6	1600 910	59.4 67.6	5160 3220	72.4 82.2	11790 7930	86.6 96.0	21430 15370	211
	50	43.1	520	60.6	2610	75.7	7750	91.3	16460	106.6	26200	227
	55											240
30	30	14.1	10	28.6	110	26.1	520	31.6	1620	36.1	3810	120
	35	19.9	30	28.2	290	35.4	1210	42.9	3420	51.2	7330	144
	40	25.7	90	35.7	630	44.5	2370	53.7	6090	63.9	12010	165
	45	31.6	190	42.9	1200	53.1	4110	63.9	9660	75.9	17680	183
	50	37.6	360	49.6	2090	61.2	6500	73.4	14040	87.1	24060	200
	55	43.7	690	56.4	3360	66.6	9550	82.3	19110	97.5	30900	214
	60	48.7	1160	62.7	5140	76.0	13260	90.6	24600	107.1	37950	227
35	35	18.7	40	24.5	340	30.2	1430	36.2	3890	43.0	7950	120
	40	24.4	110	31.5	770	38.7	2830	46.3	6940	54.9	12970	141
	45	30.1	240	38.6	1490	46.9	4960	56.1	10890	66.4	16640	159
	50	35.8	480	45.2	2590	54.8	7650	65.3	15520	77.2	25250	176
	55	41.4	870	51.6	4150	62.2	11050	74.0	20790	87.4	31920	191
	60	46.0	1470	57.7	6210	69.2	15040	82.1	26340	96.6	36630	204
	65	52.1	2320	63.4	6790	75.6	19440	89.7	32000	105.7	45210	216
40	40	22.0	130	27.6	690	33.4	3160	39.6	7410	47.1	13140	120
	45	27.5	290	34.2	1750	41.2	5490	49.0	11540	67.9	16970	138
	50	32.9	580	40.6	3040	46.6	6510	57.9	16320	66.3	25200	155
	55	38.2	1060	46.7	4830	56.0	12130	66.3	21500	76.2	31570	170
	60	43.3	1770	52.6	7150	62.6	16220	74.3	26550	87.5	44050	183
	65	48.3	2790	56.2	9950	69.2	20610	81.6	32240	96.2	49940	196
	70	53.1	4160	63.6	13190	75.3	25140	85.9	37510	104.4		207
45	45	24.6	340	30.1	1950	36.1	5850	42.8	11660	50.5	18320	120
	50	29.8	680	36.2	3410	43.3	9020	51.2	16370	60.4	24260	136
	55	34.8	1240	42.1	5390	50.2	12720	59.4	21380	69.9	30280	151
	60	39.7	2070	47.9	7890	56.8	16790	67.1	26490	78.9	36230	165
	65	44.8	3240	53.3	10830	63.2	21060	74.4	31550	87.5	42000	177
	70	49.4	4780	58.5	14120	69.1	25330	81.4	36480	95.6	47540	189
	75	53.5	6710	63.4	17640	74.8	29650	87.9	41210	103.2	52800	200
50	50	26.7	760	32.2	3670	38.3	9190	45.3	15880	53.3	22760	120
	55	31.5	1390	37.9	5730	45.0	12860	53.1	20650	62.4	26430	135
	60	36.2	2330	43.4	8390	51.4	16820	60.6	25460	71.2	34030	146
	65	40.8	3630	48.7	11380	57.5	20910	67.7	30250	79.5	39470	161
	70	45.2	5310	53.7	14650	63.4	24990	74.5	34870	87.5	44700	173
	75	49.5	7360	58.6	18070	69.0	29000	81.0	39300	96.0	49700	183
	80	53.6	9740	63.2	21530	74.3	32950	87.1	43540	102.1	54450	193
55	55	26.4	1530	34.0	6010	40.2	12640	47.4	19530	55.7	26300	120
	60	32.9	3960	39.2	6650	46.4	16430	54.6	24060	64.1	31560	133
	65	37.3	5740	44.4	11620	52.4	20310	61.6	26560	72.3	36710	146
	70	41.6		49.3	14810	58.1	24160	66.2	32920	80.0	41660	158
	75	45.8	7860	54.0	16060	63.6	27920	74.6	37110	87.4	46440	166
	80	49.7	10270	59.6	21350	68.8	31530	80.6	41130	94.4	51000	179
60	60	29.6	2720	35.5	6690	41.9	15750	49.3	22460	57.6	29030	120
	65	34.1	4200	40.4	11600	47.6	19410	56.0	26690	65.6	33900	132
	70	38.2	6050	45.2	14660	53.2	23040	62.4	30800	73.2	38630	144
	75	42.2	8200	49.8	17770	58.5	26570	68.7	34790	80.4	43200	155
	80	46.1	10590	54.2	20850	63.7	29970	74.6	38610	87.3	47580	165
65	65	31.1	4360	36.6	11350	43.3	18320	50.6	24740	59.6	31150	120
	70	35.1	6230	41.4	14270	48.7	21740	57.1	28640	66.9	35660	131
	75	39.1		46.1	17210	53.3	25070	63.2	32430	74.0	40040	142
	80	42.7	10710 6360	49.3 58.2	20110	56.9	28290	69.0	36090	80.6	44260	152
70	70	32.1	6300	37.9	13710	44.5	20350	52.2	26510	61.2	32620	120
	75	35.9	8410	42.2	16490	49.6	23500	56.1	30120	68.0	37020	131
	80	39.7	10670	46.5	19210	54.5	26560	63.6	33630	74.7	41090	141
75	75	33.1	8320	38.9	15650	45.6	21930	53.5	27900	62.6	34170	120
	80	36.6	10490	43.0	16230	50.4	24640	59.0	31260	69.0	36100	130
80	80	33.9	10200	39.6	17190	46.6	23170	54.6	29020	63.6	35260	120

TABLE 54.--CURRENT AND PROJECTED CORD(CS) AND BOARD FOOT INT. 1/4(BF) VOLUME AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED BASAL AREA	
INITIAL AGE	FINAL AGE	50		60		70		80		90		I	SQ. FT.
		CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	I	
130 sq. FT. INITIAL BASAL AREA													
20	20												
	25												
	30												
	35												
	40												
	50												
25	25												
	30												
	35												
	40												
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TABLE 55.--CURRENT AND PROJECTED CORD(CS) AND BOARD FOOT INT. 1/4(BF) VOLUME AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

		SITE INDEX										PROJECTED BASAL AREA	
INITIAL AGE	FINAL AGE	50		60		70		80		90		SO. FT.	
YEARS		CDS.	FBM.	CDS.	FSH.	CDS.	FBM.	CDS.	FBM.	CDS.	FSM.		
140 SO. FT. INITIAL BASAL AREA													
20	20			4.9	0	14.8	20	21.5	320	27.5	260	140	
	25			11.1	10	25.7	90	35.5	800	44.6	670	175	
	30			17.6	50	36.5	240	49.3	800	61.3	2020	203	
	35			24.8	120	47.1	550	62.3	1650	76.9	3890	226	
	40			32.8	270	57.1	1080	74.4	3010	91.2	6650	245	
	45			41.6	530	66.7	1923	85.5	5010	104.1	10440	261	
	50			51.4	940	75.0	3190	95.7	7790	115.9	15320	274	
25	25	2.1	0	15.6	70	23.9	120	33.0	120440	32.3	277080	140	
	30	4.6	10	23.6	180	44.2	340	42.9	2310	67.1	5290	169	
	35	6.2	20	31.5	440	53.9	1520	67.1	4150	60.9	8860	193	
	40	13.2	50	39.3	390	63.0	2670	77.8	6750	93.5	13510	213	
	45	20.3	120	47.0	740	71.6	4330	87.6	10200	105.1	19180	230	
	50	29.2	230	54.7	1310	73.6	6600	96.9	14500	115.7	25720	245	
	55	35.9	420	62.2	2170							258	
30	30	13.3	10	22.7	90	29.7	440	36.6	1040	44.8	3420	140	
	35	18.7	30	30.5	240	39.5	1020	55.4	2270	71.2	10800	164	
	40	24.3	70	38.2	520	46.9	1990	59.6	3460	83.6	17930	185	
	45	30.4	160	45.6	990	57.7	3460	70.0	8440	63.6	16110	203	
	50	37.0	310	52.7	1730	73.8	5530	79.6	12460	95.0	22290	219	
	55	43.8	560	59.6	2820	81.1	6260	88.8	17270	105.5	29110	233	
	60	50.7	950	66.2	4330		11660	97.1	22720	115.1	36320	245	
35	35	19.8	30	27.6	290	34.6	1250	41.9	3510	49.9	7460	140	
	40	25.7	90	35.1	650	43.6	2450	52.5	6250	62.5	12210	161	
	45	31.6	200	42.2	1250	52.1	4240	62.6	9880	74.4	17930	179	
	50	37.5	400	49.1	2170	60.2	6690	72.1	14320	85.5	24330	196	
	55	43.4	710	55.7	3500	67.8	9810	81.0	19430	95.9	31160	210	
	60	49.3	1210	62.0	5310	74.9	13560	89.3	25010	105.5	38160	223	
	65	55.1	1930	67.9	7630	81.6	17850	96.9	30950	114.4	45130	235	
40	40	24.4	110	31.5	770	38.5	2850	46.1	6960	54.7	12980	140	
	45	30.1	250	38.4	1500	46.7	4920	55.8	10920	66.1	18960	159	
	50	35.7	490	45.1	2600	54.6	7680	65.0	16610	76.9	25270	175	
	55	41.3	880	51.4	4170	62.0	11100	73.7	20830	87.1	31830	190	
	60	46.7	1470	57.5	6240	69.0	15080	81.9	26370	96.5	38620	203	
	65	52.0	2340	63.3	8830	75.6	19490	89.5	32030	105.4	45190	215	
	70	57.1	3530	68.8	11900	81.7	24160	96.6	37650	113.6	51520	226	
45	45	27.8	290	34.6	1730	41.7	5450	49.6	11510	56.6	16990	140	
	50	33.2	570	41.0	3000	49.3	8450	58.5	18290	69.1	25250	157	
	55	39.5	1040	47.2	4780	56.5	12050	67.0	21470	79.0	31650	172	
	60	43.7	1750	53.1	7070	63.3	16140	75.0	26850	88.3	38010	185	
	65	48.7	2750	58.7	9860	69.8	20530	82.5	32260	97.0	44190	197	
	70	53.5	4110	64.0	13080	75.9	25080	89.5	37560	105.2	50130	209	
	75	58.1	5850	69.1	16630	81.7	29650	96.1	42680	112.8	55770	219	
50	50	30.4	660	37.1	3340	44.4	6940	52.6	16410	62.0	24510	140	
	55	35.5	1200	43.1	5280	51.4	12620	60.6	21460	71.6	30610	155	
	60	40.5	2010	48.8	7750	58.1	16710	68.6	26630	80.7	36640	169	
	65	45.3	3150	54.3	10670	64.4	21020	75.9	31760	89.3	42490	181	
	70	49.9	4650	59.5	13960	70.4	25390	82.9	36760	97.4	48090	193	
	75	54.4	6550	64.5	17490	76.1	29710	89.5	41560	105.6	53430	203	
	80	56.6	8810	69.3	21150	81.5	33910	95.7	46120	112.1	56470	213	
55	55	32.6	1340	39.3	5670	46.7	12860	55.1	20940	64.6	29090	140	
	60	37.4	2250	44.8	8250	53.9	16660	62.7	25870	73.7	34800	154	
	65	42.0	3510	50.2	11230	60.3	21010	69.9	30730	82.1	40350	166	
	70	46.5	5150	55.3	14520	66.3	25180	76.8	35460	90.1	45660	178	
	75	50.6	7160	60.2	17980	70.9	29270	83.3	39990	97.6	50760	189	
	80	55.0	9510	64.5	21500	76.2	33210	89.4	44300	104.8	55590	199	
60	60	24.4	2460	41.1	6560	48.6	16650	57.3	24750	67.2	32700	140	
	65	38.9	3620	51.3	14780	54.7	20250	64.3	29360	75.5	37970	153	
	70	43.2	5560	56.1	18120	60.4	25390	71.0	33640	83.3	43060	164	
	75	47.4	7660	60.6	21480	66.0	29170	77.4	38140	90.6	47930	175	
	80	51.5	10050	66.6	26170	71.2	32170	83.5	42240	97.6	52570	185	
65	65	35.9	4070	42.6	11640	50.3	19960	59.1	27760	69.4	35510	140	
	70	40.1	5880	47.5	14780	56.0	23710	65.7	32030	77.0	40380	152	
	75	44.2	8030	52.2	17990	61.4	27370	72.0	36140	84.4	45060	162	
	80	46.2	10430	56.7	21170	66.6	30890	78.0	40060	91.3	49540	173	
70	70	37.2	6120	44.0	14560	51.8	22660	60.8	30150	71.2	37720	140	
	75	41.2	8270	48.6	17620	57.1	26120	67.0	34070	78.4	42230	151	
	80	45.1	10650	53.0	20650	62.2	29470	72.9	37840	85.3	46560	161	
75	75	38.4	8400	45.2	17090	53.1	24790	62.2	32010	72.9	39480	140	
	80	42.1	10720	49.5	19960	58.1	27980	68.0	35640	79.6	43680	150	
80	80	39.4	10660	46.3	19160	54.2	26460	63.5	33480	74.3	40910	140	

TABLE 56.--CURRENT AND PROJECTED CORD(C5) AND BOARD FOOT INT. 1/4 (BF) VOLUME AND TOTAL BASAL AREA PER ACRE FOR NATURAL STANDS OF LONGLEAF PINE

INITIAL AGE FINAL AGE		SITE INDEX										PROJECTED BASAL AREA			
		50		60		70		80		90					
		CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	CDS.	FBM.	CDS.	FBM.				
YEARS													SQ. FT.		
150 SQ. FT. INITIAL BASAL AREA															
20	20			2.1	0	14.7	20	22.4	20	29.1	250	150			
	25			2.2	40	15.5	80	36.7	20	63.66	790	195			
	30			19.6	110	47.4	36.4	500	220	63.3	38.7	213			
	35			28.0	250					79.4	350	235			
	40				480	57.2	960	76.0	2740	93.8	6110	253			
	45			37.9	67.0	1750	87.2	4500	106.6	9670	14310	269			
	50			48.6	660	76.4	2920	97.5	7200	118.6	14310	281			
25	25			15.4	20	24.4	110	31.7	400	39.1	1090	150			
	30			23.1	60	35.1	310	45.0	1020	54.9	2540	179			
	35			30.8	160	45.4	710	57.6	2100	70.0	4860	202			
	40	3.7	50	38.6	350	55.2	1380	69.4	3790	84.0	8190	222			
	45	12.0	110	46.5	670	64.4	2430	80.3	6210	96.8	12590	239			
	50	22.9	210	54.5	1190	73.1	3960	90.2	9450	108.4	18040	253			
	55	34.9	380	62.5	1980	81.3	6080	99.4	13560	119.0	24430	266			
30	30			11.7	10	2.2	60	31.3	410	38.9	3200	150			
	35			16.7	30	31.2	220	50.9	2720	61.2	6110	174			
	40			22.2	60	39.9	470	50.8	1820	62.3	4870	195			
	45			28.4	140	46.4	900	59.8	3170	72.9	7830	213			
	50			35.4	280	53.7	1570	68.2	5090	82.7	11660	229			
	55			42.9	510	60.8	2570	76.0	7650	91.8	16300	242			
	60			50.5	870	67.6	3980	83.4	10890	100.1	21650	253			
35	35			19.8	30	29.0	270	36.7	1150	44.6	3290	150			
	40			25.6	80	36.5	590	45.8	2260	55.5	5850	171			
	45			31.6	180	43.8	1140	54.5	3910	65.8	9700	189			
	50			37.7	360	50.8	1980	62.7	6200	75.4	13580	205			
	55			43.9	650	57.5	3210	70.4	9160	84.3	19590	220			
	60			50.1	1100	63.9	4690	77.6	12790	92.6	24130	232			
	65			56.2	1760	69.9	7090	84.3	15990	100.3	30030	243			
40	40			31.0	280	40.3	1380	49.8	2660	59.2	10880	150			
	45									70.1	18510	169			
	50			36.6	440	47.1	2390	57.3	3720	69.5	15050	185			
	55			42.5	680	53.6	3840	64.8	10500	77.3	20240	200			
	60			48.1	1340	59.7	5790	71.9	14390	85.4	25910	213			
	65			53.6	2140	65.6	6250	79.5	16750	93.1	31580	225			
	70			56.9	3240	71.1	11220	84.7	23450	100.2	37360	235			
45	45			29.1	260										
	50			34.6	530	43.3	36.7	270	1600	44.5	5180	150			
	55			40.4	950	49.5	4630	52.2	8050	53.0	11240	167			
	60			48.4	1600	59.5	4630	59.5	11570	70.7	21200	182			
	65			50.5	2520	61.2	9310	65.4	15610	78.7	26680	195			
	70			55.5	3790	66.6	71.3	12400	15990	78.7	26680	207			
	75			60.2	5430	73.0	20020	86.3	32240	101.6	44960	218			
50	50														
	55			610	39.5	3140		47.4	9670	56.2	16390	66.3	25040	150	
	60														
	65			42.5	37.4	100	1050	51.4	45.6	480	7350	95.3	31330	37550	179
	70			47.4	2910	57.0	10200	67.7	20790	79.9	32140	94.0	43610	191	
	75			52.1	4320	62.3	13460	73.8	25270	86.9	37330	102.1	49410	202	
	80			56.7	6120	67.3	17010	79.5	29740	93.5	42310	109.9	54920	213	
	85			61.0	8310	72.1	20740	84.9	34110	99.7	47050	116.9	60130	222	
55	55			34.6	1250	41.8	5420	49.9	12740	59.9	21340	69.3	30170	150	
	60			39.5	2090	47.5	7930	56.4	16810	66.6	26430	78.3	36090	164	
	65			44.2	3270	52.9	10880	62.7	21050	74.0	31480	86.9	41840	176	
	70			48.9	4920	58.1	14170	68.7	25370	80.9	38380	95.0	47350	199	
	75			53.2	6750	63.1	17690	74.4	29620	87.4	41090	102.6	52600	198	
	80			57.4	9050	67.8	21310	79.8	33730	93.6	45570	109.7	57560	208	
60	60			36.6	2310	43.8	8350	51.9	15040	61.2	25510	71.9	34270	150	
	65			41.2	3590	49.1	11340	59.1	20950	68.4	30400	90.3	39750	163	
	70			45.6	5260	54.2	14620	64.0	25050	75.2	35050	99.3	45010	174	
	75			49.9	7300	59.1	18050	69.6	29090	81.7	39530	95.9	50030	195	
	80			4.8	9670	63.7	21520	74.9	32970	87.9	43750	102.9	58410	195	
	65	65			38.3	3290	45.5	11590	53.9	20510	63.3	29060	74.2	37490	150
70				42.6	5630	50.5	14800	59.5	24430	70.0	33490	82.0	42530	162	
75				46.8	7740	55.3	18120	65.0	29250	76.3	37750	89.5	47360	173	
80				50.8	10140	59.8	21440	70.3	31930	82.4	41820	96.5	51970	183	
70		70			39.7	5920	47.0	14760	55.4	23580	65.0	31780	76.2	40010	150
		75			43.8	8070	51.7	17350	60.8	27210	71.3	35860	83.5	44670	161
	80			47.7	10470	56.2	21110	66.0	30700	77.3	39760	90.5	49130	171	
	75	75			41.0	8280	48.3	17590	56.9	26030	66.6	33920	76.0	42020	150
		80			44.8	10660	52.7	20600	61.9	29360	72.5	37690	84.9	46340	160
		90	80			42.1	10720	49.5	19950	59.0	27960	66.0	35610	79.5	43640	150

Metric Conversion Factors

1 inch = 2.54 cm

1 acre = 0.4047 ha

1 foot = 0.3048 m

1 ft²/acre = 0.2296 m²/ha

1 ft² = 0.0929 m²

1 ft³/acre = 0.6997 m³/ha

1 ft³ = 0.02832 m³

1 lb/ft³/acre = 39.5774 kg/m³/ha

Farrar, Robert M., Jr.

1979. Growth and yield predictions for thinned stands of even-aged natural longleaf pine. U.S. Dep. Agric. For. Serv. Res. Pap. SO-156, 78 p. South. For. Exp. Stn. New Orleans, La.

Presents a system of equations and resulting tables that can predict current and future stand volumes for thinned natural longleaf pine-total stand volume in cubic feet and merchantable stand volume in cubic feet, cords, and board feet.

Additional keywords: *Pinus palustris*, production.