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Yield Tables and Stand Structure for Unthinned **Longleaf** Pine Plantations in Louisiana and Texas

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SUMMARY

A system of equations is developed to forecast **number** of trees per acre, **basal area, and cubic foot yields in eight volume categories by 1-inch diameter classes** for several **combinations of site index, age from planting, and either number of trees planted, number of trees surviving, or basal area at a given age.**

Additional keywords: Pinus palustris, volume predictions, unthinned plantation yields, volume yields of longleaf pine.

Conversion factors: English to metric

| <u>Multiply</u> | <u>By</u> | <u>To Obtain</u> |
|-----------------|------------|----------------------|
| Inches | x 2.540 | = centimeters |
| Feet | x .3048 | = meters |
| Cubic feet | x ..02832 | = cubic meters |
| Number per acre | x 2.471044 | = number per hectare |

All English units of **measure** in this report can be converted to metric units by multiplying by the appropriate conversion factor listed above.

Yield Tables and Stand Structure for Unthinned Longleaf Pine Plantations in Louisiana and Texas

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Longleaf pine (*Pinus palustris* Mill.) forests once occupied 60 million acres from Virginia to Texas, but their area was greatly decreased when the original stands were harvested. In Louisiana and Texas there is renewed interest in the species. Landowners need to know what yields can be expected from longleaf pine plantations before large expenditures for planting can be considered.

This paper presents equations that make it possible to forecast:

- a. Number of trees per acre surviving at age 16 years from number of trees planted and site index.
- b. Number of trees per acre surviving at a future age (A_2) from the number at a first inventory (A_1).
- c. Diameter distributions from number of living trees per acre, age, and height of the dominant stand.
- d. Basal area per acre from number of living trees per acre, age, and height of dominant stand.
- e. Total volume yields i.b. or o.b. in all trees and merchantable volume yields i.b. or o.b. in trees > 3.5 inches d.b.h. to any top diameter o.b. of 4 inches or less from site index, age, and one of the following: number of trees planted, number of trees surviving, or basal area at a given age.
- f. Periodic volume growth, in the same units as yields, for a given age interval (A_1 to A_2), site index, and either surviving stems or basal area per acre at age A_1 .

Readers interested only in Stand and Stock Tables and a brief discussion of growth trends should turn directly to page 9.

The Stand and Stock Tables show expected cubic-foot yields, basal area, and number of stems by 1-inch diameter classes for several combinations of:

Density at age 15 years-100 to 700 trees per acre in increments of 100

Site index (base age 25)—40 to 70 feet in intervals of 10

Age from planting-13 to 40 years in intervals of 5.

Similar tables for various combinations of site index, age, and basal area, or for combinations of site index, age, and number of trees per acre planted, can be derived from the equations. Readers with computer facilities can acquire copies of the programs, which are written in FORTRAN, from the Southern Forest Experiment Station, Biometrics Branch, T-10210 U. S. Postal Service Building, 701 Loyola Avenue, New Orleans, Louisiana 70113.

PLANTATION MEASUREMENTS

Diameter, height, and age data were obtained from 260 unthinned plots in longleaf pine plantations in central Louisiana and east Texas, and from 176 remeasurements on these plots. All stands were at least 16 years old from planting, were on unprepared cutover forest sites, showed no evidence of severe insect or disease damage, and most had been burned by prescription. The extent to which hardwood understories were present depended upon • the

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frequency and effectiveness of prescribed fires.

All plots were rectangular and 0.10 to 0.25 acre in area. The diameter at breast height of each tree on the plot was measured to the nearest 0.1 inch. Total heights of 8 to 15 dominants and codominants per plot were measured to the nearest 1.0 foot. Stand age, determined from planting records, was used with mean total height of dominants and codominants to determine site index (at base age 25 years) for each plot (Farrar 1973).

The distribution of observations by age, site index, and surviving density is shown in table 1. Plantation ages ranged from 16 to 38 years, site indices from 29 to 73 feet, planting densities from 250 to 2,500 trees per acre, and surviving densities from 30 to 1,547 trees per acre. Only 26 plots had more than 750 and 6 plots more than 1,000 surviving pines per acre. Longleaf usually has lower stocking levels than other southern pines, and most plots had densities that were from low to medium for other species.

Heights to succeeding 2-inch diameter taper steps outside bark were measured to the nearest foot on sample trees proportioned among diameter classes, and volumes of these trees were determined by height accumulation (Grosenbaugh 1954). Plot volumes, basal areas, and diameter distributions were computed from diameter data and sample tree volumes (Lohrey and Dell 1969). Height accumulation data from 1,245 trees randomly selected from 73 plots were used to develop relationships between tree basal area and volume.

MODEL DEVELOPMENT AND EVALUATION

Survival

Two procedures were derived for estimating the number of surviving trees per acre. The first predicts living stems per acre at age 16, and the second predicts number of survivors 1 or more years after an inventory made at age 16 or later.

The number of trees planted and site index were screened to estimate trans-

formed survival proportion of the number planted on 166 plots measured at age 16. The arcsine - square root transformation [$Y = \sin^{-1}(\sqrt{x})$, where x = proportion of stems surviving] was used to stabilize the variance and better satisfy normality of error assumptions. The equation for the number of survivors at age 16 is

$$\hat{N}_{16} = N_0 \sin^2 [0.862809 + 0.449040 S^3 10^{-5} - 0.002801 S \ln(N_0)] \quad (1)$$

where

N_0 = trees per acre planted,

\hat{N}_{16} = predicted trees per acre at age 16 years,

S = site index (25),

\ln = natural (base e) logarithm, and angles are measured in radians.

The equation explained 65.9 percent of the variation in surviving stems per acre at age 16 years.

Data used to estimate survival came from both prescribe burned and unburned stands. Burning at early ages doubled survival at age 16 in one study. In estimating yields, therefore, it is better to use number of survivors or basal area per acre rather than the number of trees planted.

Data from 176 remeasurements on plots that were 16 to 30 years old when first measured were screened to fit an equation that estimates stand density at the second inventory as a proportion of that at the first one. The proportion was related to age and stand density at the first inventory. The arcsine - square root transformation was used again. The equation for surviving trees after an initial inventory is:

$$\begin{aligned} \hat{N}_2 &= N_1 \{ \sin^2 [\pi/2 + (1 - A_1/A_2)(-2.827365 \\ &\quad - 0.032141 \sqrt{N_1} + 0.221332A_1 - 0.004125 \\ &\quad (A_1)^2)] \}, \end{aligned} \quad (2)$$

where

A_1 = stand age in years at the first inventory,

A_2 = stand age in years at the second inventory,

N_1 = stems per acre at age A_1 ,

\hat{N}_2 = predicted stems per acre at age A_2 , and angular measurements are in radians.

Table 1. --Distribution of observations in unthinned longleaf pine plantations by age, site index and surviving density

| Age Years | Site index (age 25) | | | | | Total | |
|--|---------------------|---------|---------|---------|---------|-------|-------|
| | 26-35 | 36-45 | 46-55 | 56-65 | 66-75 | | |
| Number of points | | | | | | | |
| 15 - 19 | 5 | 53 | 62 | 38 | 17 | 175 | |
| 20-24 | ... | 22 | 58 | 33 | 1 | 114 | |
| 25 - 29 | ... | 14 | 40 | 13 | ... | 67 | |
| 30-34 | ... | 9 | 31 | 3 | ... | 43 | |
| 35-39 | ... | 5 | 30 | 2 | ... | 37 | |
| Total | 5 | 103 | 221 | 89 | 18 | 436 | |
| Surviving density (trees per acre) | | | | | | | |
| Age Years | 0-150 | 151-250 | 251-350 | 351-450 | 451-550 | 551+ | Total |
| | Number of points | | | | | | |
| 15-19 | 58 | 32 | 27 | 16 | 9 | 33 | 175 |
| 20-24 | 17 | 9 | 15 | 20 | 19 | 34 | 114 |
| 25-29 | 17 | 7 | 11 | 5 | 7 | 20 | 67 |
| 30-34 | 16 | 6 | 7 | 7 | 1 | 6 | 43 |
| 35-39 | 24 | 10 | 2 | 1 | ... | ... | 37 |
| Total | 132 | 64 | 62 | 49 | 36 | 93 | 436 |
| Site index (age 25) Surviving density (trees per acre) | | | | | | | |
| Feet | 0-150 | 151-250 | 251-350 | 351-450 | 451-550 | 551+ | Total |
| | Number of points | | | | | | |
| 26-35 | 4 | 1 | ... | ... | ... | ... | 5 |
| 36-45 | 81 | 9 | 6 | 3 | 2 | 2 | 103 |
| 46-55 | 45 | 42 | 48 | 28 | 19 | 39 | 221 |
| 56-65 | 2 | 12 | 8 | 18 | 15 | 34 | 89 |
| 66-75 | ... | ... | ... | ... | ... | 18 | 18 |
| Total | 132 | 64 | 62 | 49 | 36 | 93 | 436 |

A logical constraint within the equation forces $\hat{N}_2 = N_1$ if $A_2 = A_1$. Equation (2) explains 99.7 percent of the variation about mean N_2 for the 176 remeasurements.

By using equation (1), (2), or both (1) and (2), the number of trees per acre can be determined for any planting density, site index, and age ≥ 16 years. To construct yield tables, **survival** at age 15 was obtained by extrapolation.

Diameter Distributions

The Weibull probability density function was fitted to the **1-inch-class** diameter distributions (Bailey and Dell 1973) by maximum-likelihood estimation (Bailey 1974). Only 1 fitted distribution out of 436 was significantly different from the observed when tested by the Kolmogorov-Smirnov test- (Massey 1951) at the 0.10 probability level and none at the 0.05 level. Maximum difference between quadratic means of fitted and observed distributions was -0.643 inch.

The three Weibull parameter estimates (**a**, **b**, and **c**) can be transformed into distribution percentiles by applying equations of the form:

$$\hat{Y}_p = a + b (-\ln(1-p))^{1/c} \quad (3)$$

where \hat{Y}_p is the estimated distribution percentile, p is the probability of a value less than \hat{Y}_p , and $\ln(1-p)$ is the natural (base e) logarithm of the quantity (1-p).

Conversely, Weibull parameters for the two-parameter formulation (**b** and **c** only, **a** = 0) can be determined from any two percentiles. An approach was developed along these lines which uses the 24th and 93rd percentiles (Bailey 1973). Various linear and curvilinear functions of stand **age**, height of dominants and codominants, and number of surviving trees were screened in all possible regressions with the REX program (Grosenbaugh 1967) to find three-variable equations that gave best predictions of the two percentiles. The equations are:

$$\begin{aligned} \hat{Y}_{.24} &= 15.2275 - 1.2961 \ln(N_t) + 0.3362 \\ A^3 10^{-4} &= 0.1652 H^{-1} 10^3, \end{aligned} \quad (4)$$

$$R^2 = 0.74;$$

$$\begin{aligned} \hat{Y}_{.93} &= 17.8711 - 1.1191 \ln(N_t) + 0.9717 \\ A^3 10^{-4} &= 0.1651 H^{-1} 10^3, \end{aligned} \quad (5)$$

$$R^2 = 0.89;$$

where

$\hat{Y}_{.24}$ and $\hat{Y}_{.93}$ are predicted values of the percentiles computed from maximum-likelihood estimates of **a**, **b**, and **c**,

A = stand age,

H = height of dominant stand at age **A**, and

N_t = number of surviving trees per acre at age **A**.

Equations (4) and (5) and the expressions:

$$\hat{c} = 2.271082 / \ln(\hat{Y}_{.93}/\hat{Y}_{.24}) \text{ and}$$

$$\hat{b} = \hat{Y}_{.24} / (0.274436)^{1/\hat{c}} \quad (\text{Bailey 1973}) \quad (6)$$

were used to predict **b** and **c** of the two-parameter Weibull. Eighty-three percent of the estimated diameter distributions were not significantly different from the observed ones at the 0.05 level and 89 percent of the deviations between observed and predicted mean diameters were within ± 1.0 inch.

Because predicted values with equations (4) and (5) are sometimes negative--especially for early ages, low site indices, or high densities--lower bounds of 2.5 and 1.5 were placed on predictions of **b** and **c** to keep predicted volumes from being negative.

Basal Area

Basal area per **acre** can be determined from the number of trees per acre and the corresponding diameter distribution parameters. The number of trees can be determined by equation (1), (2) or both (1) and (2) and Weibull parameters **b** and **c** by equations (4), (5), and (6). Then basal area per acre can be estimated by the equation:

$$\hat{B} = 0.005454 N_t b^2 \Gamma(1 + 2/\hat{c}), \quad (7)$$

where

\hat{B} = basal area per acre,

$$\hat{b} \text{ & } \hat{c} = \text{predicted Weibull parameters, and}$$

$$\Gamma(x) = \text{gamma function of } x$$

$$= \int_0^\infty e^{-t} t^{x-1} dt.$$

This method explained 79 percent of the variation in basal area for the 176 remeasurements and 74 percent of the variation in basal area for the 166 plots measured at age 16.

When specific levels of basal area are desired, equations (4), (5), (6), and (7) are iteratively solved for the corresponding N_t .

Volume Yields

Stand basal areas from the 436 yield observations were used to develop volume yield prediction equations. A yield model reported by Clutter (1963) was fitted:

$$E[Y_i] = b_0 + b_1 S + b_2 (A_i)^{-1} + b_3 \ln(B_i), \quad (8)$$

where

Y_i = natural logarithm of stand volume in cubic feet at age A_i in years,

S = site index in feet,

$\ln(B_i)$ = natural logarithm of stand basal area in square feet at age A_i , and E indicates expected value.

The mathematical form of the model is desirable because it implies relationships that agree with certain concepts of even-aged stand development. Using $\ln(V)$ in place of V as the dependent variable is compatible with statistical assumptions (linearity, normality, additivity, and homogeneity of variance), and is a convenient way to express mathematically the interaction of the independent variables (Clutter 1963).

From the basic model, equations that predict the following are developed:

| Symbol | Description |
|----------|--|
| V_o | Volume in cubic feet per acre of total bole outside bark including all trees with d.b.h. > 0.5 inch. |
| V_i | Volume in cubic feet per acre of total bole inside bark including all trees with d.b.h. > 0.5 inch. |
| V_{4i} | Volume in cubic feet per acre outside bark to a 4-inch top o.b. |

including all trees with d.b.h. > 3.5 inches.

V_{4i} Volume in cubic feet per acre inside bark to a 4-inch top o.b. including all trees with d.b.h. > 3.5 inches.

Two logical requirements were placed on predicted yields:

$$\begin{aligned} \hat{V}_o &\geq \hat{V}_i \geq \hat{V}_{4i}, \text{ and} \\ \hat{V}_o &\geq \hat{V}_{4o} \geq \hat{V}_{4i} \end{aligned} \quad (9)$$

When merchantable yield data were initially fitted to the model these requirements were violated, so differences between total and merchantable yields were predicted as proportions of total yield. The arcsine-square root transformation was used to normalize errors. The equations are:

$$\begin{aligned} \hat{\ln}(V_o) &= 3.291079 + 0.014579S - \\ &16.513309/A + 0.976898\ln(B), \end{aligned} \quad (10)$$

$$\begin{aligned} \hat{\ln}(V_i) &= 3.178362 + 0.015977S - \\ &22.532962/A + 0.967365\ln(B), \end{aligned} \quad (11)$$

$$\begin{aligned} \sin^{-1} \{ (1 - \hat{V}_{4o}/V_o)^{1/2} \} &= 1.147626 - \\ &0.035842A + 0.610749A^3 10^{-5} + \\ &0.001449B - 0.983740S^3 10^{-6}, \end{aligned} \quad (12)$$

$$\begin{aligned} \sin^{-1} \{ (1 - \hat{V}_{4i}/V_i)^{1/2} \} &= 1.197269 - \\ &0.034380A + 0.554603A^3 10^{-5} + \\ &0.001506B - 0.821871S^2 10^{-4}, \end{aligned} \quad (13)$$

In constructing the Stand and Stock Tables presented in the appendix, these four equations were solved for total and merchantable volume yields inside and outside bark. The tables were derived from observed stems per acre, and the equations explained 92 to 94 percent of the variation in volume (Table 2, section II). Average errors ranged from 0.5 to 4.7 percent.

When stand yields were predicted from observed basal area each equation explained 98 percent of the variation about mean volume (Table 2, section III). The equations explained 73 to 80 percent of the variation in yields when estimated basal area (determined from planting density) was substituted for observed basal area

Table 2. -Evaluation of predicted survival, basal area, and volume yields per acre

| Variable ¹ | R ² | Average | Predicted | relative | to | observed | were | within: | Predicted | minus | |
|---|----------------|---------|------------|------------|----------|----------|-----------|-----------|-------------------|------------|--|
| | | errors | 10 percent | 25 percent | 20 units | 50 units | 100 units | 500 units | Negative observed | Positive | |
| - Percent - - - - - - Percent of cases - - - - - | | | | | | | | | | | |
| I Survival, basal area, and volume yields predicted from planting density² | | | | | | | | | | | |
| S.P.A. | 43. | -10.6 | 13 | 36 | 20 | 35 | 55 | 98 | 69 | 31 | |
| B.A. | 67 | -10.2 | 15 | 49 | 62 | 93 | 100 | 100 | 73 | 27 | |
| V _o | 73 | - 8.8 | 16 | 48 | 6 | 15 | 27 | 62 | 73 | 27 | |
| V _i | 74 | - 8.8 | 17 | 48 | 8 | 22 | 35 | 72 | 72 | 28 | |
| V _{4o} | 78 | - 3.4 | 21 | 50 | 9 | 19 | 32 | 68 | 71 | 29 | |
| V _{4i} | 80 | - 6.1 | 20 | 50 | 14 | 27 | 43 | 79 | 70 | 30 | |
| II Basal area and volume yields predicted from observed stems per acre² | | | | | | | | | | | |
| B.A. | 88 | - .3 | 40 | 84 | 84 | 99 | 100 | 100 | 57 | 43 | |
| V _o | 92 | .5 | 38 | 78 | 9 | 22 | 38 | 86 | 57 | 43 | |
| V _i | 93 | .5 | 39 | 80 | 14 | 31 | 50 | 92 | 56 | 44 | |
| V _{4o} | 93 | 4.7 | 38 | 78 | 10 | 25 | 44 | 88 | 55 | 45 | |
| V _{4i} | 94 | 2.2 | 38 | 79 | 14 | 34 | 54 | 94 | 54 | 46 | |
| III Survival and volume yields predicted from observed basal area per acre² | | | | | | | | | | | |
| S.P.A. | 60 | 10.9 | 27 | 59 | 27 | 49 | 72 | 98 | 43 | 57 | |
| V _o | 98 | .7 | 65 | 95 | 18 | 36 | 57 | 96 | 53 | .47 | |
| V _i | 98 | .7 | 63 | 95 | 25 | 45 | 67 | 98 | 49 | 51 | |
| V _{4o} | 98 | 4.3 | 60 | 90 | 19 | 37 | 57 | 97 | 50 | 50 | |
| V _{4i} | 98 | 2.2 | 58 | 90 | 25 | 48 | 69 | 97 | 48 | 52 | |
| IV Future survival, basal area, and volume yields predicted from current basal area³ | | | | | | | | | | | |
| S.P.A. | 94 | - 5.6 | 67 | 88 | 61 | 84 | 93 | 100 | 72 | 28 | |
| B.A. | 93 | 6.4 | 57 | a7 | 94 | 100 | 100 | 100 | 34 | 66 | |
| V _o | 94 | 6.4 | 43 | 86 | 9 | 19 | 31 | 90 | 39 | 61 | |
| V _i | 95 | 6.3 | 44 | a7 | 12 | 26 | 44 | 97 | 40 | 60 | |
| V _{4o} | 94 | 8.9 | 38 | a2 | a | 19 | 30 | 93 | 32 | 68 | |
| V _{4i} | 96 | 8.9 | 40 | 80 | 13 | 28 | 40 | 99 | 34 | 66 | |
| V Future survival, basal area, and volume yields predicted from Current stems per acre³ | | | | | | | | | | | |
| S.P.A. | 99 | 1.5 | 90 | 99 | 91 | 100 | 100 | 100 | 62 | 38 | |
| B.A. | 79 | 2.9 | 38 | 78 | a1 | 98 | 100 | 100 | 50 | 50 | |
| V _o | 86 | 3.0 | 34 | 81 | 5 | 13 | 27 | a1 | 49 | 51 | |
| V _i | 90 | 2.8 | 35 | a1 | 7 | la | 41 | 90 | 50 | 50 | |
| V _{4o} | 88 | 5.6 | 42 | 80 | 7 | 18 | 36 | 84 | 45 | 55 | |
| V _{4i} | 92 | 5.5 | 39 | 82 | 14 | 26 | 48 | 94 | 44 | 56 | |

¹ S.P.A. = stems per acre, B.A. = basal area, V_o = total volume outside bark; V_i = total volume inside bark, V_{4o} = merchantable volume outside bark, and V_{4i} = merchantable volume inside bark.

Based on data from 436 yield observations.

³ Based on data from 176 remeasurements at 3- to 5-year intervals.

(Table 2, section I). Average errors were considerably higher when estimated basal areas were used because equation (7) was not highly efficient in estimating stand basal area. The user may get better results than we did by substituting his own survival estimate into the system to predict yields from planting density. For the 176 **remeasurements**, yields were forecast with 86 to 96 percent of the variation explained (Table 2, sections IV and V).

Volumes by Diameter Classes

To find the proportion of the volumes in each diameter class, volume was assumed to be a linear function of basal area. Requirements of the relationship were that constraints of (9) should not be violated for any diameter class and the relationship should be dependent on stand age, site index, and basal area per acre. The first requirement was satisfied by having one slope coefficient for all outside bark equations and another for all inside bark equations. This presumes that volume per tree above the **4-inch** top is constant for all diameter classes on each plot. Although top volumes are sometimes inversely correlated with diameter, use of separate linear regression coefficients for different top diameter limits could cause the regression lines to cross and violate constraints of (9). Constant upper stem volumes were considered less undesirable. The second requirement was satisfied by forcing the equations to go through the average volume per tree for trees of average basal area.

Equations were fitted with data from 1,245 trees randomly selected from 73 plots. Statistical tests revealed no significant difference in slope coefficients for either the inside- or outside-bark regressions at the 0.05 level, which justified the presumption of **constant** top volume. Coefficients are $\hat{\beta}_1 = 33.718518$ for outside bark and $\hat{\beta}_2 = 25.169762$ for inside bark volumes. The fitted equations accounted for 95 percent or more of the pooled variation about mean plot volumes.

After common slopes were computed and tested, intercepts were determined to minimize the sum of squared deviations be-

tween average volume per tree and predicted volumes for trees of average basal area. For given values of stand volumes, basal area, and live trees per acre the resulting estimates are:

$$\hat{\alpha}_1 = \{V_o + V_i - (\hat{\beta}_1 + \hat{\beta}_2) B\} / 2N_t$$

$$\hat{\alpha}_2 = \{V_{40} + V_{4i} - (\hat{\beta}_1 + \hat{\beta}_2) B\} / 2N_t.$$

Another constraint required the intercept for merchantable volume on the basal area axis to equal or exceed that for total volume and for both to equal or exceed 0.

Volume to Other Top Limits

To provide further utility in the system, volumes to **2-inch** and **3-inch** tops were calculated by interpolation under the assumption that boles are conic above the **4-inch** diameter. The outside bark diameter of 4 inches, outside bark volumes, and the formula for the volume of a cone were used to determine stem length above the **4-inch** diameter. This length, inside bark volumes, and the formula for cone volume were then used to obtain inside bark diameter at the **4-inch** outside bark diameter point. All necessary information was then available to determine interpolated outside and inside bark volumes to any intermediate diameter between 0 and 4 inches.

Comparisons

This system has two desirable features not available in other diameter-distribution yield tables. First, volume yields may be predicted accurately from either observed basal area or stems per acre, which makes the system more versatile than those restricted to one measure of stand density. Second, future conditions may be forecast directly from present density without involving initial planting spacing.

Predictions of volume yields per acre from this system are more precise than those in other studies. Coefficients of determination (R^2) were 98 percent when yields were estimated from observed basal area and ranged from 92 to 94 percent when estimated from stems per acre. Values of R^2 were 85 percent for shortleaf and 91 percent for loblolly pine **merchant-**

able yields estimated from observed stems per acre in similar studies (Smalley and Bailey 1974a and 1974b). Average errors for most yield estimates were less than those for old-field plantations of loblolly (Lenhart and Clutter 1971, Lenhart 1972) or slash pine (Bennett 1972).

Literature Cited

- Bailey, R. L.
1973. Weibull model for Pinus radiata diameter distributions. Pages 51-59 In Proc. Fourth Conf. of the Advis. Group of For. Stat. IUFRO, Statistics in Forestry Research, Subject Group S6.02, Vancouver, B.C.
- Bailey, R. L.
1974. Announcement: Computer programs for quantifying diameter distributions with the Weibull function. For. Sci. 20: 229.
- Bailey, R. L., and T. R. Dell.
1973. Quantifying diameter distributions with the Weibull function. For. Sci. 19: 97-104.
- Bennett, F. A.
1972. Cubic yields for slash pine in soil bank plantings. USDA For. Serv. Res. Note SE-182, 7 p., Southeast. For. Exp. Stn., Asheville, N. C.
- Clutter, J. L.
1963. Compatible growth and yield models for loblolly pine. For. Sci. 9: 354-371.
- Farrar, R. M., Jr.
1973. Southern pine site index equations. J. For. 71: 696-697.
- Grosenbaugh, L. R.
1954. New tree-measurement concepts: height accumulation, giant tree, taper and shape. USDA For. Serv. Occas. Pap. 134, 32 p., South. For. Exp. Stn., New Orleans, La.
- Grosenbaugh, L. R.
1967. REX-FORTRAN-4 SYSTEM for combinatorial screening or conventional analysis of multivariate regressions. USDA For. Serv. Res. Pap. PSW-44, 47 p. Pac. Southwest. For. and Range Exp. Stn., Berkeley, Calif.
- Lenhart, J. D.
1972. Cubic-foot yields for unthinned old-field loblolly pine plantations in the Interior West Gulf Coastal Plain. Tex. For. Pap. 14, 46 p., Stephen F. Austin State Univ., Nacogdoches, Tex.
- Lenhart, J. D., and J. L. Clutter.
1971. Cubic-foot yields tables for old-field loblolly pine plantations in the Georgia Piedmont. Ga. For. Res. Counc. Rep. 22--Ser. 3, 13 p.
- Lohrey, R. E., and T. R. Dell.
1969. Computer programs using height accumulation for tree volumes and plot summaries. J. For. 67: 554-555.
- Massey, F. J., Jr.
1951. The Kolmogorov-Smirnov test for goodness of fit. 3. Am. Stat. Assoc. 46: 68-78.
- Smalley, G. W., and R. L. Bailey.
- 1974a. Yield tables and stand structure for loblolly pine plantations in Tennessee, Alabama, and Georgia highlands. USDA For. Serv. Res. Pap. SO-96, 81 p. South. For. Exp. Stn., New Orleans, La.
- Smalley, G. W., and R. L. Bailey.
- 1974b. Yield tables and stand structure for shortleaf pine plantations in Tennessee, Alabama, and Georgia highlands. USDA For. Serv. Res. Pap. SO-97, 57 p. South. For. Exp. Stn., New Orleans, La.

STAND AND STOCK TABLES

The tables that follow are consistent with known growth and yield of longleaf pine plantations that are 15 to 40 years old and 40 to 7.0 feet in site index. Some trends are:

Survival.—Survival percentages increased directly with site index and decreased with planting density and age (fig. 1). Stands that initiated height growth soon after planting had tall trees, high site indices, and high survival. A prolonged grass stage, unique to longleaf pine, resulted in short trees and poor survival at any age. The relationship of survival to site was opposite that reported for other species (Smalley and Bailey 1974a and 1974b).

Basal area.—Total basal area of all trees increased directly with site and age at all planting densities and with planting density and age on all sites (fig. 2).

Quadratic mean diameter.—Mean diameters increased directly with age and decreased with stand density on all sites (fig. 3). They were more closely related to number of survivors than to number of trees planted. Diameters generally increased with site index but occasionally decreased on the best sites, probably because there were more stems per acre. Diameter distributions may be more useful than mean diameters in many situations.

Yields.—Total and merchantable cubic-foot yields increased with site index, age, and planting density (fig. 4). A 10-foot increase in site index doubled early yields. Volumes per acre were low at age 20 years but doubled or tripled by age 30 and nearly doubled again by age 40. Net yield and mean annual increment had not culminated to age 40 years for any site or planting density.

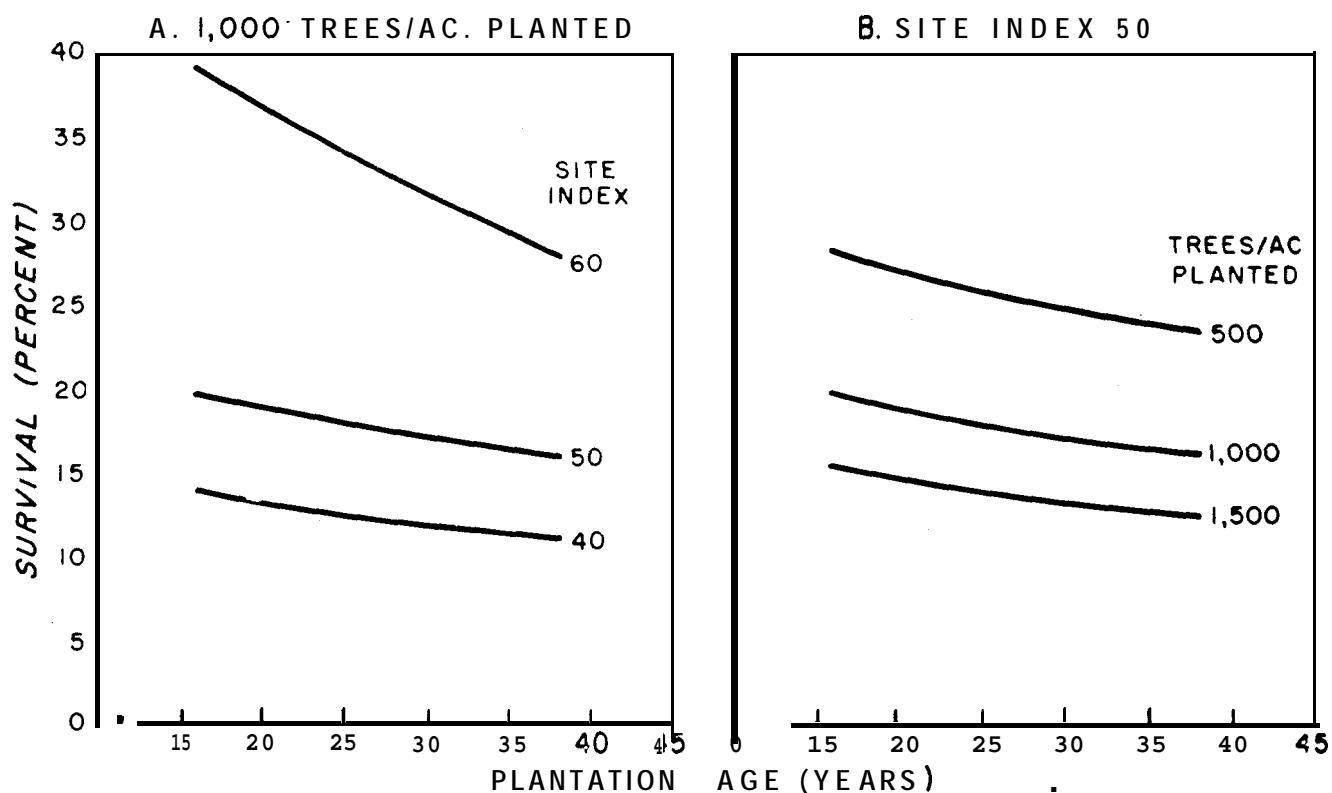


Figure 1. —Survival related to age for different sites (A) and planting densities (B).



Figure 2. -Total basal area per acre related to age for different sites (A) and planting densities (B).

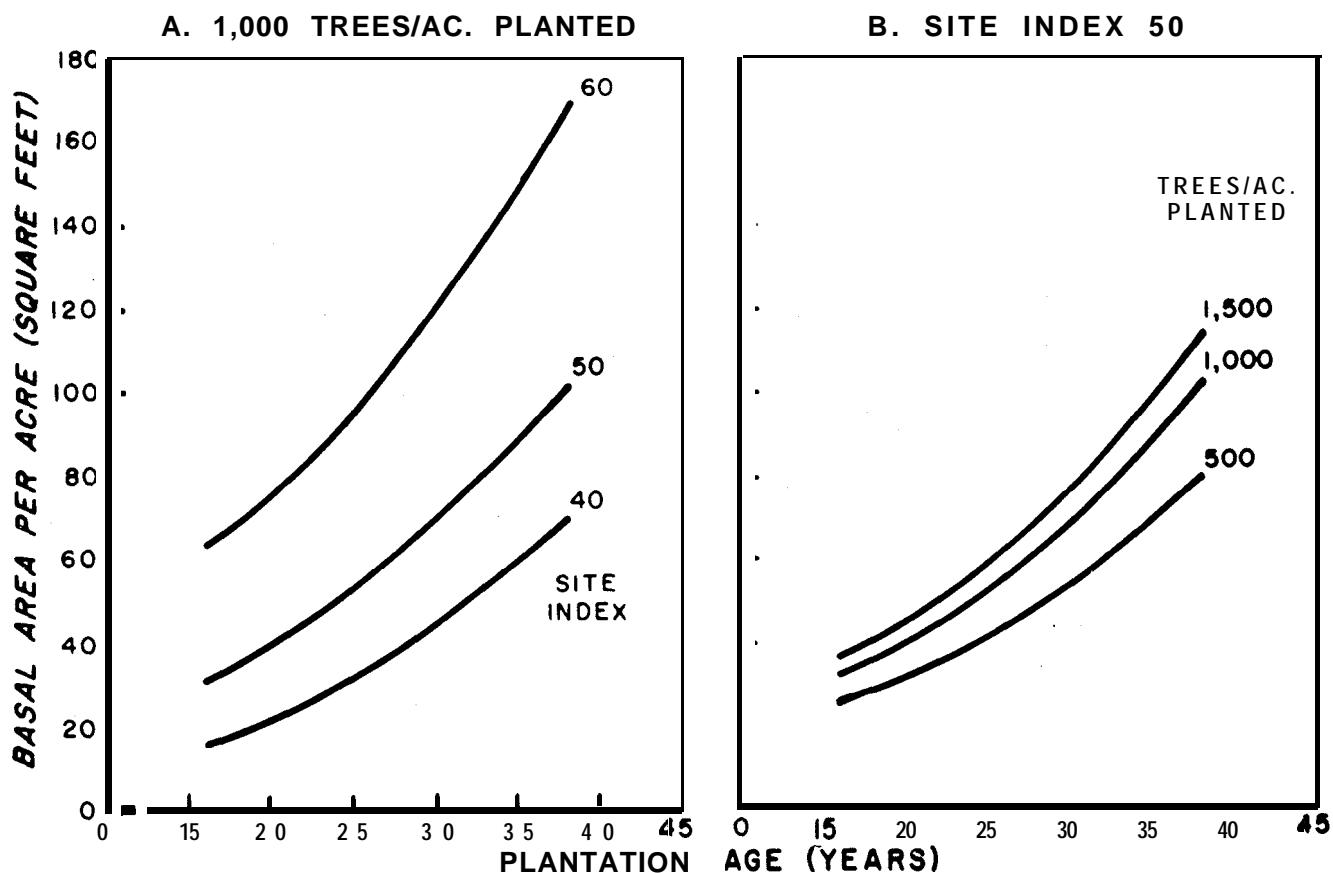


Figure 3. -Quadratic mean diameter related to age for different sites (A) and stand densities at age 15 years (B).

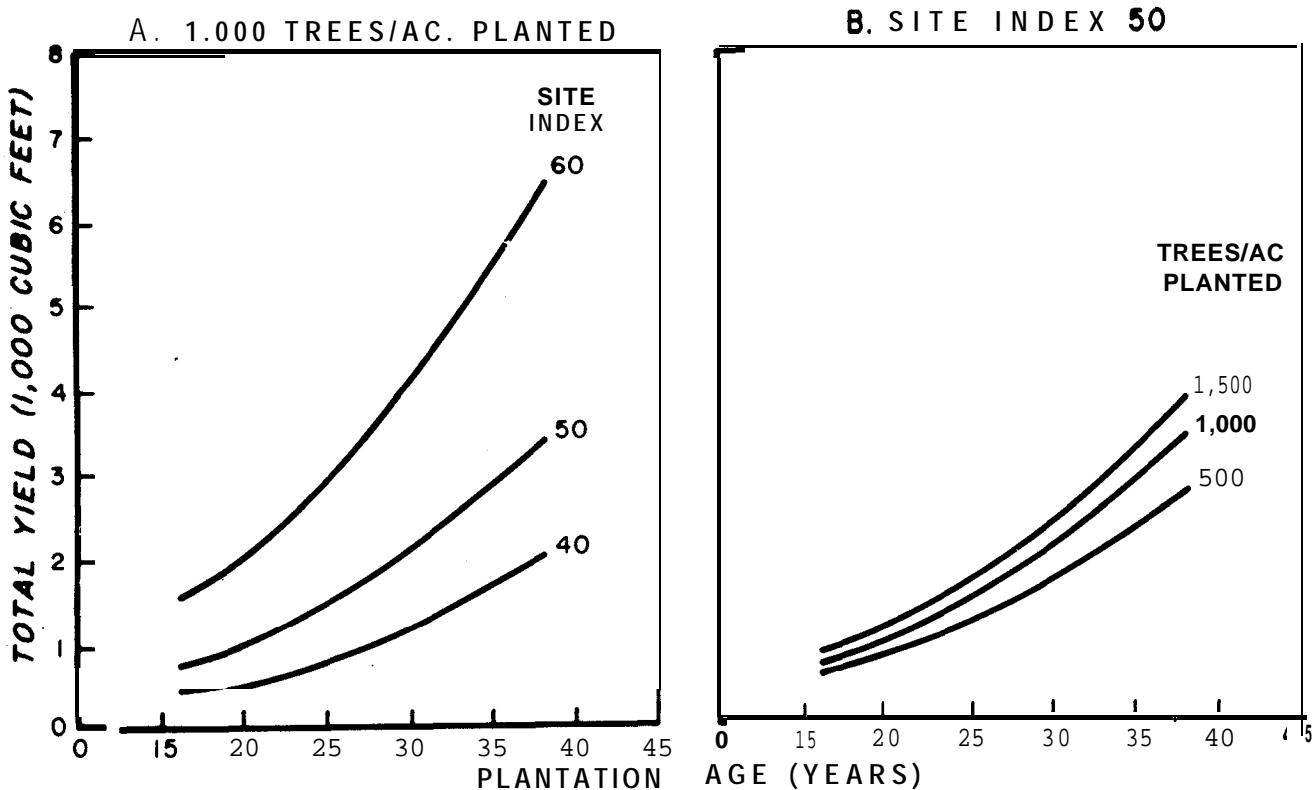


Figure 4. -Total yield per acre of entire stem (outside bark) of all trees related to age for different sites (A) and planting densities (B).

SI 40

100 trees per acre

| Age | AV. dom. ht. | D.b.h. | 'Stems per acre | Basal area | All trees, total stem | 4 -inch class and greater to o.b. tops of— | | | | | | |
|-----|--------------------|--------|-----------------------|---------------|--|--|-------|----------|----------|----------|---------------|-----|
| | | | | | | 0. b. | I. b. | 2 inches | 3 inches | 4 inches | o. b. + I. b. | |
| Yrs | Ft | In | No. | Ft 2 | | | | Ft 3 | | | | |
| IS | 23 | 1 | 10 | .1 | 0 | 0 | | | | | | |
| | 2 | 19 | 4 | | 0 | 0 | | | | | | |
| | 3 | 2s | 1.2 | | 6 | 0 | | | | | | |
| | 4 | 21 | 1.6 | 26 | 14 | 2s | 13 | 22 | II | 17 | 8 | |
| | 5 | 14 | 1.9 | 3s | 23 | 34 | 22 | 31 | 20 | 26 | 16 | |
| | 6 | 7 | 1.4 | | 29 | 20 | 28 | 19 | 26 | 18 | 22 | |
| | 7 | 3 | .8 | 18 | 13 | 18 | 13 | 16 | 12 | 14 | 10 | |
| | 8 | 1 | .3 | | 6 | 6 | 8 | 6 | 7 | 5 | 6 | |
| | | | | | | | | | | | 4 | |
| | | | 100 | 7.9 | 122 | 76 | 113 | 73 | 102 | 66 | es | |
| | | | | | MEAN DIA. 3.8 INCHES. WEIBULL PARAMETERS A= .0. B= 3.91. C= 2.35 | | | | | | 53 | |
| 20 | 33 | 2 | 3 | .1 | 0 | 0 | | | | | | |
| | 3 | 7 | .3 | | 0 | 0 | | | | | | |
| | 4 | 13 | 1.2 | | 4 | 0 | 3 | 0 | 2 | 0 | 0 | |
| | 5 | 18 | 2.5 | 33 | 14 | 32 | 13 | 28 | 9 | 21 | 3 | |
| | 6 | 21 | 4.2 | | 79 | 50 | n | 48 | 72 | 44 | 62 | |
| | 7 | 17 | 4.6 | 102 | 72 | 100 | 71 | 95 | 67 | 85 | 60 | |
| | 8 | 11 | 3.9 | 9s | 70 | 93 | 69 | 90 | 67 | 82 | 62 | |
| | 9 | 5 | 2.2 | | 57 | 43 | 56 | 43 | 54 | 42 | 50 | |
| | 10 | 1 | .6 | | 1s | II | 1s | 11 | 14 | 11 | 13 | |
| | | | | | 96 | 19.5 | 395 | 260 | 376 | 255 | 355 | |
| | | | | | MEAN DIA. 6.1 INCHES. WEIBULL PARAMETERS A= .0. B= 6. W. C= 3.61 | | | | | | 211 | |
| 2s | 40 | 2 | 1 | .0 | 8 | 0 | | | | | | |
| | 3 | 2 | .1 | 0 | 0 | | | | | | | |
| | 4 | 4 | .4 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 10 | 1.4 | 15 | 5 | 14 | 4 | 12 | 3 | 9 | 0 | |
| | 6 | 14 | 2.6 | | 49 | 28 | 46 | 27 | 45 | 2s | 39 | |
| | 7 | 17 | 4.6 | 98 | 67 | 96 | 66 | 93 | 62 | 85 | 56 | |
| | 8 | 17 | 11.9 | 142 | 104 | 140 | 103 | 137 | 99 | 129 | 93 | |
| | 9 | 13 | 5.8 | 146 | 111 | 146 | 110 | 143 | 108 | 136 | 103 | |
| | 10 | 8 | 4.4 | 117 | 90 | 116 | 89 | 114 | 86 | 109 | 85 | |
| | 11 | 3 | 2.0 | 55 | 43 | 55 | 43 | 54 | 42 | 52 | 41 | |
| | 12 | 1 | .8 | 23 | 18 | 23 | 18 | 22 | 18 | 21 | 17 | |
| | | | | | 91 | 28.1 | 647 | 466 | 638 | 460 | 620 | |
| | | | | | MEAN DIA. 7.5 INCHES. WEIBULL PARAMETERS A= .0. B= 7.99. C= 3.96 | | | | | | 415 | |
| 30 | 46 | 3 | 1 | .0 | 0 | 0 | | | | | | |
| | 4 | 3 | .3 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 5 | .7 | | 6 | 2 | 8 | 2 | 7 | 1 | 5 | |
| | 6 | 8 | 1.6 | 28 | 16 | 28 | 16 | 26 | 14 | 24 | 12 | |
| | 7 | 11 | 2.9 | | 63 | 43 | 62 | 42 | 61 | 40 | 58 | |
| | 8 | 13 | 4.8 | 109 | 79 | 108 | 79 | 106 | 76 | 101 | 73 | |
| | 9 | 16 | 7.1 | 182 | 136 | 181 | 135 | 178 | 133 | 172 | 129 | |
| | 10 | 12 | 6.5 | 135 | 11n | 176 | 134 | 174 | 133 | 170 | 130 | |
| | 11 | 9 | 5.9 | 165 | 128 | 164 | 128 | 163 | 126 | 160 | 124 | |
| | 12 | 5 | 3.9 | II2 | 66 | 112 | 88 | 111 | 87 | 109 | 85 | |
| | 13 | 2 | 1.8 | 54 | 42 | 54 | 42 | 53 | 42 | 52 | 41 | |
| | 14 | 1 | 1.1 | 32 | 25 | 32 | 25 | 32 | 2s | 31 | 24 | |
| | | | | | 86 | 36.3 | 930 | 694 | 925 | 690 | 911 | 677 |
| | | | | | MEAN DIA. 6.8 INCHES. WEIBULL PARAMETERS A= .0. B= 9.35. C= 4.02 | | | | | | 662 | |
| | | | | | | | | | | | me-- | 655 |

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | | 4-inch class and greater to o.b. tops of— | | | | | | | | | | | | |
|--|--------------------|--------|----------------------|---------------|-------------------------------------|-------|---|------|----------|------|----------|------|----|---|---|---|---|--|--|
| | | | | | 0. b. | I. b. | 2 inches | | 3 inches | | 4 inches | | | | | | | | |
| Yrs | Ft | In | No. | Ft 2 | | | | | | | Ft 3 | | | | | | | | |
| 35 | 51 | 3 | 1 | .0 | 0 | 0 | | | | | | | | | | | | | |
| 4 | 2 | .1? | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 5 | 3 | .4 | | | 5 | 2 | 5 | 2 | 5 | 1 | | | 4 | 0 | | | | | |
| 6 | 5 | 1.0 | | | 19 | II | 19 | 11 | 18 | 10 | 18 | 17 | 9 | | | | | | |
| 7 | 7 | 1.9 | | | 42 | 29 | 42 | 29 | Cl | 26 | 39 | 26 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 6 | 9 | 3.2 | | | 76 | 57 | 78 | 57 | n | 56 | 75 | 75 | 54 | | | | | | |
| 9 | 11 | 4.9 | | | 129 | 96 | 128 | 95 | 127 | 94 | 125 | 92 | | | | | | | |
| 10 | II | 6.1 | | | 166 | 127 | 165 | 127 | 164 | 126 | 162 | 124 | | | | | | | |
| II | II | 7.4 | | | 209 | 162 | 208 | 161 | 207 | 160 | 204 | 158 | | | | | | | |
| 12 | 9 | 7.2 | | | 206 | 163 | 200 | 163 | 206 | 161 | 204 | 159 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 13 | 6 | 5.6 | | | 165 | 131 | 165 | 131 | 164 | 130 | 163 | 129 | | | | | | | |
| 14 | 4 | 4.3 | | | 130 | 103 | 130 | 103 | 129 | 103 | 128 | 102 | | | | | | | |
| 15 | 2 | 2.5 | | | 75 | So | 75 | 60 | 75 | 50 | 74 | 59 | | | | | | | |
| 16 | 1 | 1.4 | | | 43 | 34 | 43 | 34 | 43 | 34 | 43 | 34 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 62 | 46.2 | | | | 1269 | 975 | 1266 | 973 | 1256 | 963 | 1238 | 946 | | | | | | | |
| MEAN DIA. 10.2 INCNS. KIWI-L | | | | | PARAMETERS A= .0. B= 10.79. C= 3.99 | | | | | | | | | | | | | | |
| 40 | 56 | 3 | 1 | .0 | 0 | 0 | | | | | | | | | | | | | |
| 4 | 1 | .1 | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| 5 | 2 | .3 | | | 4 | 1 | 4 | 1 | 4 | 1 | 3 | 1 | | | | | | | |
| 6 | 3 | .8 | | | 12 | 7 | 12 | 7 | 12 | 7 | 12 | 6 | II | | | | | | |
| 7 | 4 | 1.1 | | | 24 | 17 | 24 | 17 | 24 | 17 | 23 | 16 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 6 | 6 | 2.1 | | | 53 | 39 | 53 | 38 | 52 | 37 | 50 | 36 | | | | | | | |
| 9 | 7 | 3.1 | | | 63 | 63 | 63 | 63 | 62 | 62 | 61 | 61 | | | | | | | |
| 10 | 8 | 4.4 | | | 122 | 93 | 122 | 93 | 121 | 92 | 119 | 91 | | | | | | | |
| 11 | 10 | 6.7 | | | 190 | 147 | 190 | 147 | 188 | 146 | 186 | 144 | | | | | | | |
| 12 | 9 | 7.1 | | | 208 | 163 | 208 | 163 | 207 | 162 | 205 | 160 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 13 | 8 | 7.4 | | | 221 | 174 | 221 | 174 | 219 | 173 | 217 | 171 | | | | | | | |
| 14 | 7 | 7.5 | | | 227 | 179 | 227 | 179 | 226 | 178 | 224 | i n | | | | | | | |
| 15 | 5 | 6.2 | | | 168 | 149 | 168 | 149 | 167 | 149 | 166 | 148 | 1% | | | | | | |
| 16 | 4 | 5.6 | | | 172 | 138 | 172 | 138 | 172 | 137 | 171 | 136 | | | | | | | |
| 17 | 2 | 3.2 | | | 98 | 76 | 98 | 76 | 99 | 76 | 97 | 76 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 18 | 1 | 1.8 | | | 55 | 45 | n | 45 | n | 45 | n | 44 | | | | | | | |
| 19 | 1 | 2.0 | | | 62 | 50 | 62 | 50 | 62 | 50 | 61 | so | | | | | | | |
| | | | | | | | we-- | | | mm-- | | | | | | | | | |
| 79 | s9.3 | | | | 1719 | 1 - 2 | 1719 | 1342 | 1709 | 1334 | 1689 | 1319 | | | | | | | |
| MEAN DIA. 11.7 INCHES. WEIBULL PARAMETERS A= .0. B= 12.44. C= 3.67 | | | | | | | | | | | | | | | | | | | |

SI 40

200 trees per acre

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total | | 4 -inch class and greater to o.b. tops of— | | | | | | |
|------|-----------------------|--------|----------------------|---------------|--|-------|--|----------|----------|----------|-------|-------|---|
| | | | | | stem | 0. b. | I. b. | 2 inches | 3 inches | 4 inches | 0. b. | I. b. | |
| Yrs | Ft | In | No. | Ft 2 | Ft 3 | | | | | | | | |
| 15 | 23 | 1 | 56 | .3 | 0 | 0 | | | | | | | |
| | 2 | 52 | 1.1 | | 0 | 0 | | | | | | | |
| | 3 | 42 | 2.1 | 25 | 11 | | | | | | | | |
| | 4 | 26 | 2.3 | 39 | 24 | 3s | 23 | 36 | 21 | 31 | 18 | | |
| | 5 | 14 | 1.9 | 38 | 24 | 37 | 23 | 35 | 22 | 32 | 19 | | |
| | 6 | 6 | 1.2 | 25 | 17 | 24 | 17 | 23 | 16 | 21 | 14 | | |
| | 7 | 3 | .8 | 17 | 12 | 17 | 12 | 16 | 11 | 15 | 10 | | |
| | 6 | 1 | .3 | 6 | 5 | 6 | 5 | 6 | 5 | 7 | 5 | | |
| | 200 | 10.0 | 152 | 93 | 124 | 60 | 118 | 75 | 106 | 66 | | | |
| | WAN DIA. 3.0 INCHES. | | | | WEIBULL PARAMETERS A= .0. B= 2.90. C= 1.70 | | | | | | | | |
| 20 | 33 | 1 | 4 | .0 | '0 | 0 | | | | | | | |
| | 2 | 12 | .3 | | 0 | 0 | | | | | | | |
| | 3 | 25 | 1.2 | | 0 | 0 | | | | | | | |
| | 4 | 36 | 3.2 | 30 | 7 | 28 | 6 | 22 | 4 | 12 | 0 | | |
| | 5 | 40 | 5.5 | 93 | 56 | 90 | 53 | 63 | 47 | 69 | 34 | | |
| | 6 | 34 | 6.7 | 142 | 98 | 139 | 95 | 131 | 69 | 116 | 7 | | |
| | 7 | 23 | 6.2 | 146 | 106 | 143 | 104 | 136 | 99 | 123 | so | | |
| | 8 | 11 | 3.9 | 97 | 72 | 95 | 71 | 92 | 69 | 84 | 64 | | |
| | 9 | 4 | 1.6 | 47 | 35 | 46 | 35 | 44 | 34 | 41 | 32 | | |
| | 10 | 1 | .5 | 14 | 12 | 14 | 12 | 14 | 11 | 13 | 10 | | |
| | 190 | 29.2 | 569 | 366 | 555 | 376 | 522 | 353 | 456 | 307 | | | |
| | KAN DIA. 5.3 INCHES. | | | | WEIBULL PARAMETERS A= .0. B= 5.59. C= 3.02 | | | | | | | | |
| 25 | 40 | 1 | 1 | .0 | 0 | 0 | | | | | | | |
| | 2 | 4 | .1 | | 0 | 0 | | | | | | | |
| | 3 | 10 | .5 | | 0 | 0 | | | | | | | |
| | 4 | 18 | 1.6 | 6 | 0 | 7 | 0 | 5 | 0 | 0 | 0 | | |
| | 5 | 26 | 3.6 | 53 | 26 | 51 | 24 | 46 | 19 | 37 | 10 | | |
| | 6 | 31 | 6.1 | 122 | 79 | 119 | 77 | 113 | 71 | 101 | 60 | | |
| | 7 | 32 | 6.6 | 196 | 141 | 195 | 139 | 166 | 133 | 174 | 121 | | |
| | 6 | 26 | 9.1 | 228 | 170 | 225 | 168 | 219 | 163 | 207 | 154 | | |
| | 9 | 16 | 7.1 | 188 | 143 | 166 | 142 | 162 | 136 | 174 | 132 | | |
| | 10 | 8 | 4.4 | 120 | 93 | 119 | 92 | 117 | 91 | 112 | 66 | | |
| | 11 | 3 | 2.0 | 56 | 43 | 56 | 43 | 55 | 43 | 53 | 42 | | |
| | 12 | 1 | .8 | 23 | 18 | 23 | 18 | a? | 18 | 21 | 17 | | |
| | 176 | 43.7 | 996 | 713 | 991 | 703 | 947 | 676 | 679 | 624 | | | |
| | MEAN DIA. 6.7 INCHES. | | | | WEIBULL PARAMETERS A= .0. B= 7.15. C= 3.47 | | | | | | | | |
| 3046 | a | 2 | .0 | | 0 | 0 | | | | | | | |
| | 3 | 5 | .2 | | 0 | 0 | | | | | | | |
| | 4 | 9 | .8 | | 3 | 0 | 3 | 0 | 2 | 0 | 0 | 0 | 0 |
| | 5 | 15 | 2.0 | 29 | 13 | 28 | 12 | 26 | 9 | 21 | 4 | | |
| | 6 | 21 | 4.1 | 60 | 51 | 79 | 50 | 75 | 46 | 69 | 40 | | |
| | 7 | 25 | 6.7 | 153 | 106 | 151 | 106 | 147 | 102 | 139 | 94 | | |
| | 6 | 25 | 6.7 | 219 | 161 | 217 | 159 | 213 | 156 | 204 | 146 | | |
| | 9 | 23 | 10.2 | 270 | 205 | 269 | 203 | 264 | 200 | 255 | 192 | | |
| | 10 | 18 | 9.6 | 272 | 209 | 270 | 206 | 267 | 205 | 259 | 200 | | |
| | 11 | 11 | 7.3 | 207 | 161 | 206 | 160 | 203 | 158 | 196 | 155 | | |
| | 12 | 6 | 4.7 | 137 | 108 | 136 | 106 | 135 | 107 | 132 | 105 | | |
| | 13 | 2 | 1.8 | 55 | 43 | 55 | 43 | 54 | 43 | 53 | 42 | | |
| | 14 | 1 | 1.1 | 32 | 25 | 32 | 25 | 32 | 25 | 31 | 25 | | |
| | 163 | 57.6 | 1457 | 1064 | 1445 | 1074 | 1418 | 1051 | 1361 | 1005 | | | |
| | MEAN DIA. 6.0 INCHES. | | | | WEIBULL PARAMETERS A= .0. B= 8.53. C= 3.56 | | | | | | | | |

| Age | Av. dom. ht. | D.b.h | Stem per acre | Basal area | All trees, total stem | | 4-inch class and greater to o.b. tops of— | | | | | |
|-----|--------------------|-------|---------------------|---------------|--------------------------|-------|---|------|----------|------|----------|-----|
| | | | | | O. b. | I. b. | 2 inches | | 3 inches | | 4 inches | |
| Yrs | Ft | In | No. | Ft 2 | Ft 3 | | | | | | | |
| A | 51 | 2 | 1 | .0 | 0 | 0 | | | | | | |
| | | 3 | 3 | .1 | 0 | 0 | | | | | | |
| | | 4 | 5 | .4 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| | | 5 | 9 | 1.2 | 17 | 7 | 16 | 7 | 15 | 5 | 13 | 3 |
| | | 6 | 13 | 2.6 | 51 | 32 | 50 | 31 | 46 | 29 | 43 | 26 |
| | | 7 | 16 | 4.3 | 99 | 69 | 90 | 60 | 96 | 66 | 91 | 61 |
| | | 6 | 19 | 6.7 | 166 | 124 | 167 | 123 | 164 | 120 | 158 | 114 |
| | | 9 | 21 | 9.4 | 2% | 189 | 249 | 188 | 245 | 185 | 239 | 179 |
| | | 10 | 20 | 11.0 | 306 | 230 | 305 | 235 | 301 | 232 | 295 | 226 |
| | | 11 | 17 | 11.3 | 324 | 251 | 323 | 250 | 320 | 248 | 314 | 244 |
| | | 12 | 13 | 10.3 | 301 | 237 | 300 | 236 | 290 | 234 | 294 | 230 |
| | | 13 | 8 | 7.4 | 221 | 174 | 220 | 174 | 219 | 173 | 216 | 171 |
| | | 14 | 5 | 5.4 | 162 | 128 | 162 | 128 | 161 | 128 | 159 | 127 |
| | | 15 | 2 | 2.5 | 75 | 59 | 75 | 59 | 74 | 59 | 73 | 60 |
| | | 16 | 1 | 1.4 | 43 | 34 | 43 | 34 | 43 | 34 | 43 | 34 |
| | | 153 | 74.2 | 2018 | 1540 | 2009 | 1533 | 1985 | 1513 | 1930 | 1475 | |

MEAN DIA. 9.4 INCHES. WEIBULL PARAMETERS A = .0. B = 9.99. C = 3.53

| | | | | | | | | | | | | |
|----|----|-----|------|------|------|------|------|------|------|------|------|-----|
| 40 | 56 | 2 | 1 | .0 | 0 | c | | | | | | |
| | | 3 | 2 | .1 | 0 | 0 | | | | | | |
| | | 4 | 3 | .3 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| | | 5 | 5 | .7 | 10 | 4 | 10 | 4 | 9 | 3 | 7 | 1 |
| | | 6 | 6 | 1.6 | 31 | 20 | 31 | 19 | 29 | 18 | 27 | 15 |
| | | 7 | 10 | 2.7 | 62 | 43 | 61 | 42 | 59 | 40 | 56 | 37 |
| | | 6 | 13 | 4.5 | 115 | 84 | 114 | 83 | 112 | 61 | 107 | 77 |
| | | 9 | 15 | 6.6 | 177 | 134 | 176 | 133 | 174 | 130 | 169 | 125 |
| | | 10 | 16 | 6.7 | 243 | 187 | 242 | 186 | 239 | 163 | 233 | 178 |
| | | 11 | 15 | 9.9 | 204 | 220 | 203 | 219 | 200 | 217 | 274 | 212 |
| | | 12 | 15 | 11.8 | 345 | 269 | 344 | 260 | 341 | 266 | 335 | 262 |
| | | 13 | 13 | 12.0 | 356 | 281 | 355 | 280 | 353 | 278 | 348 | 274 |
| | | 14 | 10 | 10.7 | 322 | 255 | 321 | 254 | 319 | 253 | 315 | 250 |
| | | 15 | 7 | 6.6 | 261 | 208 | 260 | 207 | 259 | 206 | 2% | 204 |
| | | 16 | 5 | 7.0 | 214 | 171 | 213 | 171 | 212 | 170 | 210 | 169 |
| | | 17 | 3 | 4.7 | 146 | 116 | 146 | 115 | 145 | 116 | 144 | 115 |
| | | 18 | 2 | 3.5 | 110 | 80 | 110 | 88 | 109 | 88 | 108 | 67 |
| | | 19 | 1 | 2.0 | 62 | 49 | 62 | 49 | 61 | 49 | 60 | 40 |
| | | 144 | 95.4 | 2739 | 2129 | 2729 | 2119 | 2702 | 2098 | 2649 | 2054 | |

MEAN DIA. 11.0 INCHES. WEIBULL PARAMETERS A = .0. B = 11.67. C = 3.39

SI 50

100 trees per acre

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | 4 -inch class and greater to o.b. tops of— | | | | | |
|------|--------------------|-----------|----------------------|---------------|--------------------------|--|-----------|---------|-------|-------|-------|
| | | | | | | 0. b. | I. b. | 0. b. | I. b. | 0. b. | I. b. |
| Yrs | Ft | In | No. | Ft 2 | Ft 3 | | | | | | |
| 15 | 29 | 1 | 1 | .0 | 0 | 0 | | | | | |
| | | 2 | 6 | .1 | 0 | 0 | | | | | |
| 3 | 13 | | | .6 | 0 | 0 | | | | | |
| 4 | 20 | | | 1.8 | 13 | 0 | 12 | 0 | 9 | 0 | 3 |
| 5 | 25 | | | 3.4 | 53 | 26 | 51 | 26 | 46 | 23 | 36 |
| | | | | | | | | | | | 15 |
| | | 6 | 19 | 3.6 | 75 | 49 | 73 | 48 | 66 | 44 | 58 |
| | | 7 | 11 | 3.0 | 67 | 47 | 65 | 46 | 62 | 44 | 54 |
| | | 6 | 4 | 1.4 | 34 | 25 | 33 | 25 | 31 | 23 | 26 |
| | | 9 | 1 | .4 | 12 | 9 | 12 | 9 | 11 | 6 | 9 |
| | | | | | | | | | | | 7 |
| | | 100 | 14.5 | | 254 | 158 | 246 | 154 | 227 | 142 | 166 |
| | | MEAN DIA. | S.2 | INCHES. | WEIBULL PARAMETERS | A= .0. | B= 5.46. | C= 3.26 | | | |
| 20 | 41 | 2 | 1 | .0 | 0 | 0 | | | | | |
| | | 3 | 3 | .1 | 0 | 0 | | | | | |
| 4 | 7 | | | .6 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| 5 | 12 | | | 1.7 | 21 | 7 | 20 | 6 | 17 | 4 | II |
| 6 | 17 | | | 3.0 | 63 | 36 | 61 | 36 | 57 | 32 | 48 |
| | | | | | | | | | | | 24 |
| | | 7 | 21 | 21.7 | 127 | 86 | 125 | 64 | 119 | 79 | 107 |
| | | 6 | 18 | 6.4 | 158 | 112 | 155 | 110 | 150 | 107 | 138 |
| | | 9 | 11 | 4.9 | 130 | 95 | 128 | 94 | 11N | 92 | 116 |
| | | 10 | 5 | 2.6 | 76 | 56 | 75 | 56 | 73 | 55 | 69 |
| | | 11 | 1 | .7 | 19 | IS | 19 | 15 | 19 | 15 | 18 |
| | | | | | | | | | | | 14 |
| | | 96 | 26.3 | | 595 | 409 | 584 | 401 | 560 | 364 | 507 |
| | | MEAN DIA. | 7.1 | INCHES. | WEIBULL PARAMETERS | A= -.0. | B= 7.53. | C= 4.21 | | | 349 |
| 25 | 50 | 3 | 1 | .0 | 0 | 0 | | | | | |
| | | 4 | 3 | .3 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| 5 | 6 | | | .8 | 13 | 6 | 13 | 6 | II | 4 | 9 |
| 6 | 10 | | | 2.0 | 41 | 26 | 40 | 25 | 36 | 23 | 33 |
| 7 | 14 | | | 3.7 | 89 | 61 | 88 | 60 | 65 | 58 | 79 |
| | | | | | | | | | | | 53 |
| | | 6 | 18 | 6.2 | 161 | 116 | 160 | 115 | 156 | 112 | 149 |
| | | 9 | 16 | 7.0 | 192 | 141 | 191 | 140 | 187 | 138 | 180 |
| | | 10 | 12 | 6.5 | 185 | 138 | 184 | 137 | 181 | 136 | 175 |
| | | 11 | 7 | 4.6 | 133 | 101 | 132 | 101 | 131 | 100 | 128 |
| | | 12 | 3 | 2.3 | 70 | 53 | 70 | 53 | 69 | 53 | 67 |
| | | 13 | 1 | .9 | 28 | 21 | 26 | 21 | 28 | 21 | 27 |
| | | | | | | | | | | | PI |
| | | 91 | 34.4 | | 913 | 663 | 907 | 656 | 697 | 645 | 847 |
| | | MEAN DIA. | 6.3 | INCHES. | WEIBULL PARAMETERS | A= .0. | B= 6.65. | C= 4.42 | | | 616 |
| 3096 | | 3 | 1 | .0 | 0 | 0 | | | | | |
| | | 4 | 2 | .2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| | | 5 | 3 | .4 | 9 | 5 | 9 | 5 | 6 | 5 | 7 |
| | | 6 | 6 | 1.2 | 26 | 20 | 26 | 20 | 27 | 19 | 26 |
| | | 7 | 9 | 2.4 | 64 | 46 | 64 | 46 | 62 | 45 | 60 |
| | | | | | | | | | | | 43 |
| | | 6 | 12 | 4.2 | 117 | 67 | 117 | 67 | 115 | 65 | 113 |
| | | 9 | 14 | 6.2 | 160 | 135 | 179 | 134 | 177 | 133 | 174 |
| | | 10 | 13 | 7.1 | 211 | 161 | 210 | 161 | 208 | 159 | 205 |
| | | 11 | II | 7.3 | 220 | 166 | 219 | 168 | 216 | 167 | 215 |
| | | 12 | 6 | 6.3 | 194 | 149 | 194 | 149 | 192 | 148 | 190 |
| | | | | | | | | | | | 146 |
| | | 13 | 4 | 3.7 | 115 | 69 | 115 | 69 | 114 | 69 | 113 |
| | | 14 | 2 | 2.1 | 66 | 52 | 60 | 52 | 67 | 52 | 66 |
| | | 15 | 1 | 1.2 | 39 | 30 | 39 | 30 | 39 | 30 | 39 |
| | | | | | | | | | | | 30 |
| | | 86 | 42.3 | IN 7 | 943 | 1244 | 942 | 1229 | 932 | 1209 | 916 |
| | | MEAN DIA. | 9.5 | INCHES. | WEIBULL PARAMETERS | A= .0. | B= 10.09. | C= 4.34 | | | |

| Age | Av. dom. ht. | D. b.h. | Stems per acre | Basal area | All trees, total stem | | 4 -inch class and greater to o.b. tops of— | | | | | |
|-----|--|------------|----------------------|---------------|--------------------------|-------|--|-------|----------|-------|----------|-------|
| | | | | | | | 2 inches | | 3 inches | | 4 inches | |
| | | | | | 0. b. | I. b. | 0. b. | I. b. | 0. b. | I. b. | 0. b. | I. b. |
| Yrs | Ft | In | No. | Ft 2 | ----- Ft 3 ----- | | | | | | | |
| A64 | | | | | | | | | | | | |
| | 4 | 1 | .1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| | 5 | 2 | .3 | 8 | 5 | 6 | 5 | 6 | 5 | 7 | 5 | |
| | 6 | 4 | .8 | 22 | 17 | 22 | 17 | 22 | 17 | 21 | 16 | |
| | 7 | 6 | 1.6 | 48 | 37 | 46 | 37 | 48 | 38 | 47 | 35 | |
| | 8 | 6 | 2.6 | 86 | 66 | 86 | 66 | 85 | 65 | 64 | 64 | |
| | 9 | 10 | 4.4 | 137 | 106 | 137 | 106 | 136 | 105 | 135 | 104 | |
| | 10 | II | 6.0 | 188 | 146 | 188 | 146 | 187 | 145 | 186 | 144 | |
| | 11 | 10 | 6.6 | 209 | 162 | 209 | 162 | 208 | 162 | 206 | 161 | |
| | 12 | 10 | 7.8 | 250 | 195 | 250 | 195 | 249 | 194 | 248 | 193 | |
| | 13 | 6 | 7.3 | 236 | 184 | 236 | 184 | 235 | 164 | 234 | 183 | |
| | 14 | 6 | 6.4 | 205 | 161 | 205 | 161 | 205 | 161 | 204 | 160 | |
| | 15 | 3 | 3.7 | 119 | 92 | 119 | 92 | 119 | 92 | 118 | 93 | |
| | 16 | 2 | 2.8 | 91 | 71 | 91 | 71 | so | 71 | 89 | 70 | |
| | 17 | 1 | 1.6 | 51 | 40 | 51 | 40 | 51 | 40 | 51 | 40 | |
| | 82 | 52.1 | | 1652 | 1283 | 1652 | 1283 | 1645 | 1278 | 1632 | 1269 | |
| | MEAN DIA. 10.8 INCHES. WEIBULL PARAMETERS A= .0. B= 11.46. C= 4.13 | | | | | | | | | | | |
| 40 | 70 | 4 | 1 | .1 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 |
| | | 5 | 1 | .1 | 5 | 3 | 5 | 3 | 5 | 3 | 5 | 3 |
| | | 6 | 2 | .4 | 13 | 11 | 13 | 11 | 13 | 11 | 13 | 11 |
| | | 7 | 4 | 1.1 | 36 | 29 | 36 | 28 | 36 | 29 | 36 | 29 |
| | | 8 | 5 | 1.8 | 59 | 46 | 59 | 46 | 59 | 46 | 58 | 47 |
| | | 9 | 6 | 2.7 | so | 71 | 90 | 71 | 89 | 71 | 88 | 70 |
| | | 10 | 8 | 4.4 | 147 | 116 | 147 | 116 | 146 | 116 | 145 | 115 |
| | | II | 9 | 6.0 | 200 | 158 | 200 | 158 | 200 | 158 | 199 | 158 |
| | | 12 | 9 | 7.1 | 238 | 188 | 238 | 188 | 238 | 188 | 237 | 187 |
| | | 13 | 9 | 8.3 | 279 | 221 | 279 | 221 | 278 | 221 | 277 | 220 |
| | | 14 | 6 | 8.6 | 268 | 228 | 288 | 228 | 287 | 226 | 286 | 227 |
| | | 15 | 6 | 7.4 | 248 | 197 | 248 | 197 | 248 | 197 | 247 | 1% |
| | | 16 | 5 | 7.0 | 235 | 186 | 235 | 186 | 235 | 186 | 234 | 185 |
| | | 17 | 3 | 4.8 | 159 | 126 | 159 | 126 | 159 | 126 | 158 | 126 |
| | | 18 | 2 | 3.6 | 118 | 94 | 118 | 94 | 118 | 94 | 118 | 94 |
| | | 19 | 1 | 2.0 | 68 | 53 | 66 | 53 | 66 | 53 | 66 | 52 |
| | | 79 | 65.2 | 2184 | 1729 | 2184 | 1729 | 2180 | 1729 | 2170 | 1722 | |
| | KAN DIA. 12.3 INCHES. WEIBULL PARAMETERS A= .0. B= 13.06. C= 3.86 | | | | | | | | | | | |

SI 50

200 trees per acre

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | 4 -inch class and greater to o.b. tops of— | | | | | |
|-----|--------------------|--------|----------------------|---------------|--|--|------|----------|------|----------|------|
| | | | | | | 2 inches | | 3 inches | | 4 inches | |
| Yrs | Ft | In | No. | Ft 2 | | Ft 3 | | | | | |
| 15 | 29 | 1 | 10 | .1 | 0 | 0 | | | | | |
| | | 2 | 27 | .6 | 0 | 0 | | | | | |
| | | 3 | 42 | 2.0 | 2 | 0 | | | | | |
| | | 4 | 45 | 3.9 | 51 | 23 | 48 | 21 | 43 | 17 | 31 |
| | | 5 | 37 | 5.0 | 93 | 57 | 90 | 55 | 62 | 50 | 66 |
| | | 6 | 23 | 4.5 | 97 | 64 | 94 | 63 | 88 | 59 | 78 |
| | | 7 | 11 | 2.9 | 69 | 47 | 67 | 46 | 63 | 44 | 54 |
| | | 8 | 4 | 1.4 | 34 | 24 | 33 | 24 | 31 | 22 | 27 |
| | | 9 | 1 | .4 | 11 | 8 | 11 | 6 | 10 | 6 | 9 |
| | | | | | 200 | 20.7 | A 7 | 223 | 343 | 217 | 317 |
| | | | | | | | | | 200 | | 264 |
| | | | | | | | | | | | 167 |
| | | | | | MEAN DIA. 4.4 INCHES. WEIBULL PARAMETERS A= .0. B= 4.54. C= 2.64 | | | | | | |
| 20 | 41 | 1 | 1 | .0 | 0 | 0 | | | | | |
| | | 2 | 5 | .1 | 0 | 0 | | | | | |
| | | 3 | 12 | .6 | 0 | 0 | | | | | |
| | | 4 | 23 | 2.0 | 14 | 0 | 12 | 0 | 8 | 0 | 0 |
| | | 5 | 34 | 1.6 | 75 | 39 | 72 | 36 | 65 | 30 | 51 |
| | | 6 | 39 | 7.7 | 161 | 105 | 157 | 102 | 148 | 94 | 130 |
| | | 7 | 35 | 9.4 | 225 | 157 | 221 | 154 | 211 | 147 | 134 |
| | | 8 | 24 | 8.4 | 217 | 157 | 214 | 155 | 206 | 150 | 191 |
| | | 9 | 12 | 5.3 | 144 | 107 | 142 | 106 | 138 | 104 | 130 |
| | | 10 | 4 | 2.2 | 61 | 46 | 60 | 46 | 59 | 45 | 56 |
| | | 11 | 1 | .7 | 19 | 14 | 19 | 14 | 18 | 14 | 17 |
| | | | | | 190 | co.9 | 916 | 625 | 697 | 613 | 653 |
| | | | | | | | | | 584 | | 767 |
| | | | | | | | | | | | 527 |
| | | | | | MEAN DIA. 6.3 INCHES. WEIBULL PARAMETERS A= .0. B= 6.66. C= 3.61 | | | | | | |
| 25 | 50 | 2 | 2 | .0 | 0 | 0 | | | | | |
| | | 3 | 5 | .2 | 0 | 0 | | | | | |
| | | 4 | 11 | 1.0 | 9 | 1 | 6 | 1 | 6 | 1 | 2 |
| | | 5 | 19 | 2.6 | 46 | 26 | 44 | 24 | 41 | 21 | 33 |
| | | 6 | 27 | 6.3 | 119 | 78 | 117 | 76 | 111 | 71 | 100 |
| | | 7 | 31 | 9.3 | 208 | 147 | 205 | 145 | 198 | 139 | 185 |
| | | 8 | 31 | 10.1 | 291 | 213 | 288 | 211 | 281 | 205 | 267 |
| | | 9 | 23 | 11.1 | 310 | 232 | 306 | 230 | 302 | 226 | 290 |
| | | 10 | 15 | 9.2 | 237 | 179 | 235 | 178 | 232 | 176 | 224 |
| | | 11 | 7 | 4.6 | 137 | 104 | 136 | 104 | 134 | 103 | 131 |
| | | | | | 176 | 54.6 | 1433 | 1038 | 1417 | 1027 | 1380 |
| | | | | | | | | | 1000 | | 1304 |
| | | | | | | | | | | | 947 |
| | | | | | MEAN OIA. 7.5 INCHES. WEIBULL PARAMETERS A= .0. B= 8.01. C= 3.69 | | | | | | |
| 30% | | 2 | 1 | .0 | 0 | 0 | | | | | |
| | | 3 | 3 | .1 | 0 | 0 | | | | | |
| | | 4 | 6 | .5 | 6 | 3 | 8 | 3 | 7 | 2 | 5 |
| | | 5 | 10 | 1.4 | 29 | 19 | 26 | 18 | 27 | 16 | 24 |
| | | 6 | 16 | 3.1 | 76 | 55 | 77 | 54 | 75 | 52 | 70 |
| | | 7 | 22 | 5.9 | 158 | 115 | 157 | 114 | 153 | 111 | 147 |
| | | 6 | 23 | 9.7 | 248 | 184 | 246 | 163 | 242 | 179 | 234 |
| | | 9 | 28 | 11.0 | 324 | 244 | 322 | 243 | 318 | 239 | 310 |
| | | 10 | 22 | 12.0 | 360 | 274 | 356 | 273 | 355 | 271 | 347 |
| | | 11 | 16 | 10.5 | 322 | 247 | 321 | 246 | 316 | 244 | 312 |
| | | | | | 163 | 67.9 | 1980 | 1491 | 1969 | 1484 | 1944 |
| | | | | | | | | | 1462 | | 1891 |
| | | | | | | | | | | | 1425 |
| | | | | | MEAN DIA. 9.7 INCHES. WEIBULL PARAMETERS A= .0. B= 9.26. C= 3.90 | | | | | | |

| Age | Av. dom. ht. | D.b.h | Stems per acre | Basal area | All trees | | 4 -inch class and greater to o.b. tops of— | | | | | | |
|-----|--------------------|--|----------------------|---------------|------------|-------|--|-------|----------|-------|----------|-------|--|
| | | | | | total stem | | 2 inches; | | 3 inches | | 4 inches | | |
| | | | | | 0. b. | I. b. | 0. b. | I. b. | 0. b. | I. b. | 0. b. | I. b. | |
| Yrs | Ft | In | No. | Ft 2 | | | Ft 3 | | | | | | |
| 35 | 64 | 2 | 1 | .0 | 3 | 0 | | | | | | | |
| | | 3 | .2 | .1 | 2 | 1 | | | | | | | |
| | | 4 | 4 | .3 | 6 | 5 | 8 | 5 | 6 | 5 | 7 | 4 | |
| | | 5 | 6 | .8 | 22 | 15 | 22 | 15 | 21 | 14 | 20 | 13 | |
| | | 6 | 10 | 2.0 | 66 | 41 | 56 | 41 | 55 | 40 | 53 | 36 | |
| | | 7 | 14 | 3.8 | 112 | 65 | 111 | 64 | 109 | a 3 | 106 | 90 | |
| | | 6 | 17 | 5.9 | 181 | 138 | 180 | 137 | 178 | 136 | 175 | 133 | |
| | | 9 | 20 | 6.9 | 274 | 211 | 273 | 210 | 271 | 208 | 266 | 204 | |
| | | 10 | 19 | 10.4 | 325 | 252 | 324 | 251 | 322 | 249 | 317 | 246 | |
| | | II | 19 | 12.6 | 398 | 309 | 397 | 308 | 394 | 306 | 389 | 303 | |
| | | 12 | 16 | 12.6 | 401 | 312 | 400 | 311 | 390 | 310 | 394 | 307 | |
| | | 13 | II | 10.2 | 325 | 253 | 324 | 253 | 323 | 252 | 320 | 250 | |
| | | 14 | 7 | 7.5 | 241 | 188 | 241 | 188 | 240 | 188 | 236 | 167 | |
| | | 15 | 4 | 4.9 | 159 | 12% | 159 | 124 | 158 | 124 | 156 | 123 | |
| | | 16 | 2 | 2.6 | 90 | 70 | 90 | 70 | 90 | 70 | 90 | 70 | |
| | | 17 | 1 | 1.6 | 51 | 40 | 51 | 40 | 51 | 40 | 51 | 39 | |
| | | 153 | 64.3 | 2645 | 2044 | 2636 | 2037 | 2618 | 2025 | 2582 | 1997 | | |
| | | MEAN DIA. 10.1 INCHES. WEIBULL PARAMETERS A= .0. B= 10.67. C= 3.77 | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|----|----|--|-------|------|------|------|------|------|------|------|------|-----|--|
| 40 | 70 | 3 | 1 | .0 | 2 | 1 | | | | | | | |
| | | 4 | 2 | .2 | 6 | 4 | 6 | 4 | 6 | 4 | 5 | 4 | |
| | | 5 | 4 | .5 | 16 | 14 | 18 | 14 | 18 | 13 | 17 | 12 | |
| | | 6 | 6 | 1.2 | 39 | 31 | 39 | 31 | 38 | 30 | 37 | 26 | |
| | | 7 | 9 | 2.4 | 79 | 63 | 79 | 63 | 76 | 61 | 76 | 59 | |
| | | 6 | 11 | 3.6 | 127 | 100 | 127 | 100 | 125 | 99 | 123 | 97 | |
| | | 9 | 13 | 5.7 | 190 | 150 | 189 | 149 | 188 | 148 | 185 | 145 | |
| | | 10 | 15 | 6.2 | 270 | 213 | 269 | 212 | 267 | 21 I | 264 | 209 | |
| | | 11 | 18 | 11.9 | 393 | 309 | 392 | 306 | 390 | 307 | 385 | 304 | |
| | | 12 | 16 | 12.6 | 415 | 328 | 414 | 327 | 412 | 326 | 409 | 323 | |
| | | 13 | 14 | 12.9 | 426 | 336 | 425 | 336 | 423 | 334 | 420 | 332 | |
| | | 14 | 12 | 12.8 | 424 | 334 | 423 | 334 | 421 | 333 | 418 | 331 | |
| | | 15 | 9 | 11.0 | 365 | 288 | 365 | 288 | 363 | 267 | 361 | 285 | |
| | | 16 | 6 | 6.4 | 277 | 216 | 277 | 216 | 276 | 218 | 274 | 217 | |
| | | 17 | 4 | 6.3 | 209 | 164 | 209 | 164 | 208 | 164 | 206 | 163 | |
| | | 18 | 2 | 3.5 | 117 | 92 | 117 | 92 | 116 | 92 | 115 | 91 | |
| | | 19 | 1 | 2.0 | 65 | 52 | 65 | 52 | 65 | 52 | 65 | 51 | |
| | | 20 | 1 | 2.2 | 72 | 57 | 72 | 57 | 72 | 57 | 71 | 57 | |
| | | 144 | 105.6 | 3494 | 2754 | 3486 | 2749 | 3466 | 2736 | 3431 | 2706 | | |
| | | MEAN DIA. 11.6 INCHES. WEIBULL PARAMETERS A= .0. B= 12.29. C= 3.66 | | | | | | | | | | | |

SI 50

300 trees per acre

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | 4 -inch class and greater to o.b. tops of— | | | | | |
|-----|--------------------|--------|----------------------|---------------|--------------------------|--|-------|----------|-------|----------|-------|
| | | | | | | 2 inches | | 3 inches | | 4 inches | |
| | | | | | O. b. | I. b. | O. b. | I. b. | O. b. | I. b. | O. b. |
| Yrs | Ft | In | No. | Ft 2 | | | | | | | Ft 3 |
| 15 | 29 | 1 | 31 | .2 | 0 | 0 | | | | | |
| | | 2 | 57 | 1.2 | 0 | 0 | | | | | |
| | | 3 | 70 | 3.4 | 21 | 0 | | | | | |
| | | 4 | 62 | 5.4 | 85 | 47 | 92 | 45 | 74 | 39 | 59 |
| | | 5 | 43 | 5.9 | I IQ | n | 115 | 74 | 107 | 68 | 91 |
| | | | | | | | | | | | 27 |
| | | 6 | 23 | 4.5 | 101 | 69 | 98 | 67 | 93 | 63 | 81 |
| | | 7 | 10 | 2.7 | 64 | 45 | 63 | 44 | 59 | 41 | 52 |
| | | 8 | 3 | 1.0 | 26 | 19 | 26 | 19 | 24 | 18 | 22 |
| | | 9 | 1 | .4 | 12 | 8 | 12 | 8 | 11 | 8 | 9 |
| | | | | | S-S- | | --- | --- | --- | --- | 7 |
| | | | 300 | 24.8 | 427 | 265 | 396 | 257 | 368 | 237 | 314 |
| | | | | | | | | | | | 197 |
| | | | | | MEAN DIA. | 3.9 INCHES. WEIBULL PARAMETERS A= .0. B= 3.98, C= 2.27 | | | | | |
| 20 | 41 | 1 | 3 | .0 | 0 | 0 | | | | | |
| | | 2 | 12 | .3 | 0 | 0 | | | | | |
| | | 3 | 27 | 1.3 | 0 | 0 | | | | | |
| | | 4 | 44 | 3.8 | 40 | 10 | 37 | 9 | 29 | 6 | 14 |
| | | 5 | 56 | 7.6 | 139 | 90 | 134 | 16 | 123 | 66 | 100 |
| | | | | | | | | | | | 47 |
| | | 6 | 55 | 10.8 | 241 | 162 | 235 | 158 | 222 | 147 | 196 |
| | | 7 | 43 | 11.5 | 295 | 202 | 280 | 198 | 268 | 190 | 244 |
| | | 8 | 26 | 9.1 | 241 | 176 | 237 | 174 | 229 | 168 | 211 |
| | | 9 | 11 | 4.9 | 134 | 100 | 132 | 99 | 129 | 97 | 119 |
| | | 10 | 4 | 2.2 | 62 | 47 | 61 | 47 | 59 | 46 | 56 |
| | | 11 | 1 | .7 | 19 | 15 | 19 | 15 | 19 | 15 | 18 |
| | | | | | 282 | 52.1 | 1161 | 792 | 1135 | 776 | 1076 |
| | | | | | | | | | | | 735 |
| | | | | | | | | | | | 958 |
| | | | | | | | | | | | 656 |
| | | | | | MEAN DIA. | 5.8 INCHES. WEIBULL PARAMETERS A= .0. B= 6.15, C= 3.27 | | | | | |
| 25 | 50 | 1 | 1 | .0 | 0 | 0 | | | | | |
| | | 2 | 4 | .1 | 0 | 0 | | | | | |
| | | 3 | II | .5 | 0 | 0 | | | | | |
| | | 4 | 21 | 1.8 | 20 | 6 | 18 | 5 | 15 | 3 | 8 |
| | | 5 | 33 | 4.5 | 86 | 51 | a3 | 48 | n | 42 | 64 |
| | | | | | | | | | | | 30 |
| | | 6 | 43 | 8.5 | 197 | 134 | 193 | 131 | 184 | 123 | 167 |
| | | 7 | 47 | 12.6 | 325 | 233 | 320 | 229 | 309 | 221 | 288 |
| | | 8 | 41 | 14.4 | 394 | 289 | 390 | 286 | 380 | 279 | 360 |
| | | 9 | 29 | 12.9 | 367 | 275 | 364 | 273 | 356 | 268 | 341 |
| | | 10 | 16 | 6.6 | 258 | 194 | 256 | 193 | 251 | 191 | 241 |
| | | II | 7 | 4.6 | 139 | 106 | 138 | 105 | 136 | 104 | 131 |
| | | 12 | 2 | 1.6 | 49 | 37 | 46 | 37 | 47 | 36 | 46 |
| | | | | | 255 | 70.3 | 1834 | 132s | 1810 | 1307 | 1755 |
| | | | | | | | | | | | 1267 |
| | | | | | | | | | | | 1646 |
| | | | | | MEAN DIA. | 7.1 INCHES. WEIBULL PARAMETERS A= .0. B= 7.54, C= 3.61 | | | | | 1190 |
| 30 | 58 | 2 | 2 | .0 | 0 | 0 | | | | | |
| | | 3 | 5 | .2 | 1 | 0 | | | | | |
| | | 4 | II | 1.0 | 15 | 7 | 14 | 6 | 12 | 4 | 9 |
| | | 4 | 19 | 2.6 | 57 | 37 | 56 | 36 | 52 | 32 | 46 |
| | | 6 | 27 | 5.3 | 134 | 95 | 132 | 93 | 127 | 89 | 119 |
| | | | | | | | | | | | 80 |
| | | 7 | 34 | 9.1 | 248 | 181 | 246 | 179 | 240 | 174 | 229 |
| | | 6 | 37 | 12.9 | n o | 276 | 367 | 274 | 360 | 268 | 347 |
| | | 9 | 34 | 15.0 | 444 | 336 | 441 | 334 | 434 | 329 | 421 |
| | | 10 | 28 | 15.3 | 462 | 351 | 460 | 350 | 454 | 346 | 442 |
| | | 11 | 19 | 12.5 | 384 | 295 | 382 | 294 | 379 | 292 | 371 |
| | | | | | 232 | 67.7 | 2541 | 1909 | 2523 | 1897 | 2480 |
| | | | | | | | | | | | 1862 |
| | | | | | | | | | | | 2396 |
| | | | | | MEAN DIA. | 6.3 INCHES. WEIBULL PARAMETERS A= .0. B= 6.63, C= 3.67 | | | | | 1797 |

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | 4 -inch class and greater to o.b. tops of— | | | | | | |
|---|--------------------|-------------|----------------------|---------------|--------------------------|--|------------|------------|------------|-------------|-------|-------|
| | | | | | | 2 inches | | 3 inches | | 4 inches | | |
| Yrs | Ft | In | No. | Ft 2 | 0. b. | I. b. | 0. b. | I. b. | 0. b. | I. b. | 0. b. | I. b. |
| 35 | 64 | 2 | 1 | .0 | 0 | 0 | | | | | | |
| | | 3 | 3 | .1 | 2 | 1 | | | | | | |
| 4 | 6 | .5 | 12 | 8 | 12 | 8 | II | 7 | 9 | 5 | | |
| 5 | II | 1.5 | 39 | 29 | 38 | 28 | 37 | 26 | 34 | 23 | | |
| 6 | 16 | 3.1 | 88 | 65 | 87 | 64 | 85 | 62 | 80 | 58 | | |
| 7 | 2.2 | 5.8 | 173 | 131 | 172 | 130 | 168 | 126 | 161 | 120 | | |
| 8 | 2.6 | 9.0 | 274 | 209 | 272 | 207 | 268 | 204 | 260 | 197 | | |
| 9 | 28 | 12.3 | 380 | 292 | 370 | 290 | 373 | 267 | 364 | 279 | | |
| 10 | 28 | 15.2 | 475 | 366 | 473 | 365 | 468 | 361 | 459 | 354 | | |
| 11 | 2.5 | 16.4 | 518 | 401 | 516 | 400 | 512 | 397 | so3 | 391 | | |
| 12 | 19 | 14.8 | 472 | 366 | 470 | 365 | 467 | 363 | 460 | 358 | | |
| 13 | 13 | 11.9 | 381 | 297 | 380 | 2% | 377 | 2% | 372 | 291 | | |
| 14 | 8 | a.5 | 273 | 213 | 272 | 213 | 271 | 212 | 268 | 210 | | |
| 15 | 4 | 4.9 | 157 | 123 | 157 | 123 | 156 | 123 | 155 | 122 | | |
| 16 | 2 | 2.8 | 69 | 70 | 69 | 70 | 89 | 70 | 88 | 69 | | |
| 17 | 1 | 1.6 | 51 | 40 | 51 | 40 | 51 | 40 | 50 | 39 | | |
| 213 | 108.5 | | 3384 | 2611 | 3367 | 2599 | 3333 | 2572 | 3263 | 25516 | | |
| MEAN OIA. 9.7 INCHES. WEIBULL PARAMETERS A= .O. B= 10.25. C= 3.56 | | | | | | | | | | | | |
| 40 | 70 | 2 | 1 | .0 | 1 | 1 | | | | | | |
| | | 3 | 2 | .1 | 3 | 2 | | | | | | |
| 4 | 4 | .4 | 12 | 9 | 12 | 9 | 11 | 8 | 9 | 6 | | |
| 5 | 7 | 1.0 | 31 | 25 | 30 | 24 | 29 | 23 | 26 | 20 | | |
| 6 | 10 | 2.0 | 65 | 51 | 64 | 50 | 62 | 48 | 58 | 45 | | |
| 7 | 14 | 3.8 | 124 | 97 | 123 | 96 | 120 | 94 | 115 | 89 | | |
| 8 | 17 | 6.0 | 196 | 154 | 195 | 153 | 191 | 150 | 185 | 144 | | |
| 9 | 20 | 8.9 | 292 | 230 | 290 | 229 | 286 | 225 | 278 | 218 | | |
| 10 | 22 | 12.1 | 397 | 312 | 395 | 310 | 391 | 307 | 362 | 299 | | |
| 11 | 21 | 13.9 | 459 | 361 | 457 | 360 | 453 | 356 | 444 | 349 | | |
| 12 | EI | 16.6 | 546 | 429 | 544 | 429 | 540 | 424 | 531 | 418 | | |
| 13 | 18 | 16.7 | 549 | 432 | 547 | 431 | 544 | 428 | 536 | 423 | | |
| 14 | 15 | 16.1 | 531 | 418 | 530 | 417 | 526 | 415 | 520 | 411 | | |
| 15 | 11 | 13.6 | 447 | 351 | 446 | 350 | 444 | 349 | 439 | 346 | | |
| 16 | 7 | 9.8 | 323 | 255 | 322 | 255 | 321 | 253 | 318 | 251 | | |
| 17 | 5 | 7.9 | 261 | 205 | 260 | 205 | 259 | 204 | 257 | 203 | | |
| 18 | 2 | 3.6 | 117 | 92 | 117 | 92 | 117 | 92 | 116 | 92 | | |
| 19 | 1 | 2.0 | 65 | 52 | 65 | 52 | 65 | 52 | 65 | 51 | | |
| 20 | 1 | 2.2 | 73 | 57 | 73 | 57 | 72 | 57 | 71 | 56 | | |
| 199 | 136.5 | | 4492 | 3633 | 4470 | 3519 | 4431 | 3485 | 4350 | 3421 | | |
| MEAN DIA. 11.2 INCHES. WEIBULL PARAMETERS A= .O. B= 11.88. C= 3.43 | | | | | | | | | | | | |

SI 50

400 trees per acre

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | 4-inch class and greater to o.b. tops of- | | | | | | |
|-----|--------------------|--------|----------------------|---------------|--------------------------|---|--|----------|-------|----------|-------|------|
| | | | | | | 2 inches | | 3 inches | | 4 inches | | |
| Yrs | Ft | In | No. | Ft 2 | | O. b. | I. b. | O. b. | I. b. | O. b. | I. b. | Ft 3 |
| 15 | 29 | 1 | 64 | .3 | 0 | 0 | | | | | | |
| | | 2 | 50 | 2.0 | 0 | 0 | | | | | | |
| | | 3 | 92 | 4.5 | 42 | 11 | | | | | | |
| | | 4 | 72 | 6.2 | 107 | 63 | 104 | 60 | 95 | 54 | 79 | 42 |
| | | 5 | 45 | 6.1 | 126 | 63 | 123 | 80 | 115 | 75 | 101 | 63 |
| | | 6 | 23 | 4.5 | 101 | 70 | 99 | 68 | 94 | 64 | 84 | 56 |
| | | 7 | 10. | 2.7 | 63 | 44 | 62 | 43 | 59 | 41 | 53 | 36 |
| | | 8 | 3 | 1.0 | 26 | 18 | 25 | 16 | 24 | 17 | 21 | 15 |
| | | 9 | 1 | .4 | 11 | 6 | 11 | 8 | II | 8 | 10 | 7 |
| | | | | | 400 | 27.8 | 476 | 297 | 424 | 277 | 398 | 259 |
| | | | | | MEAN DIA. | 3.6 | INCHES. WEIBULL PARAMETERS A= .0. B= 3.57. C= 2.02 | | | | 348 | 219 |
| 20 | 41 | 1 | 6 | .0 | 0 | 0 | | | | | | |
| | | 2 | 22 | .5 | 0 | 0 | | | | | | |
| | | 3 | 45 | 2.2 | 0 | 0 | | | | | | |
| | | 4 | 66 | s.O | 73 | 28 | 68 | 24 | 57 | 16 | 34 | 0 |
| | | 5 | 76 | 10.4 | 202 | 124 | 195 | 118 | 180 | 105 | 149 | 80 |
| | | 6 | 60 | 13.4 | 310 | 211 | 303 | 206 | 286 | 195 | 253 | 172 |
| | | 7 | 48 | 12.6 | 327 | 234 | 321 | 230 | 307 | 221 | 279 | 204 |
| | | 8 | 26 | 9.1 | 245 | 179 | 241 | 177 | 231 | 172 | 213 | 162 |
| | | 9 | 11 | 4.9 | 136 | 101 | 134 | 100 | 129 | 98 | 120 | 94 |
| | | 10 | 3 | 1.6 | 47 | A | 46 | 35 | 45 | 34 | 42 | 33 |
| | | 11 | 1 | .7 | 19 | 15 | 19 | 15 | 18 | 15 | 17 | 14 |
| | | | | | 372 | 61.3 | 1359 | 927 | 1327 | 905 | 1253 | 656 |
| | | | | | MEAN DIA. | 5.5 | INCHES. WEIBULL PARAMETERS A= .0. B= 5.79. C= 3.04 | | | | 1107 | 759 |
| 25 | 50 | 1 | 2 | .0 | 0 | 0 | | | | | | |
| | | 2 | 7 | .2 | 0 | 0 | | | | | | |
| | | 3 | 16 | .9 | 0 | 0 | | | | | | |
| | | 4 | 33 | 2.9 | 37 | 13 | 34 | 11 | 28 | 8 | 16 | 0 |
| | | 5 | 48 | 6.5 | 131 | 81 | 127 | n | 117 | 60 | 98 | 49 |
| | | 6 | 58 | 11.4 | 271 | 167 | 266 | 182 | 253 | 171 | 229 | 150 |
| | | 7 | 59 | 15.6 | 413 | 297 | 407 | 292 | 393 | 202 | 365 | 261 |
| | | 8 | 48 | 16.7 | 464 | 343 | 459 | 339 | 446 | 331 | 421 | 314 |
| | | 9 | 32 | 14.1 | 406 | 305 | 402 | 303 | 393 | 297 | 375 | 2 % |
| | | 10 | 16 | 6.7 | 256 | 195 | 256 | 194 | 250 | 191 | NO | 1 % |
| | | 11 | 7 | 4.6 | 139 | 106 | 138 | 105 | 136 | 104 | 131 | 102 |
| | | 12 | 2 | 1.6 | 47 | 37 | 47 | 37 | 46 | 37 | 45 | 36 |
| | | | | | 330 | 03.4 | 2166 | 1564 | 2136 | 1540 | 2062 | 1489 |
| | | | | | MEAN DIA. | 6.8 | INCHES. WEIBULL PARAMETERS A= .0. B= 7.21. C= 3.41 | | | | 1919 | 1384 |
| 30 | 58 | 1 | 1 | .0 | 0 | 0 | | | | | | |
| | | 2 | 3 | .1 | a | 0 | | | | | | |
| | | 3 | 9 | .4 | 2 | 0 | | | | | | |
| | | 4 | 17 | 1.5 | 25 | 12 | 24 | 11 | 20 | 8 | 14 | -2 |
| | | 5 | 21 | 3.7 | 63 | 55 | 81 | 53 | 76 | 48 | 66 | 30 |
| | | 6 | 31 | 7.3 | 187 | 133 | 184 | 130 | in | 123 | 163 | 110 |
| | | 7 | 45 | 12.1 | 334 | 245 | 330 | 242 | 321 | 234 | 303 | 218 |
| | | 8 | 46 | 16.9 | 486 | 364 | 482 | 361 | 472 | 353 | 452 | 337 |
| | | 9 | 41 | 18.2 | 542 | 410 | 538 | 407 | 529 | 401 | 511 | 309 |
| | | 10 | 31 | 17.0 | 516 | 394 | 513 | 392 | 505 | 388 | 491 | 379 |
| | | 11 | 20 | 13.3 | 409 | 314 | 407 | 313 | 402 | 310 | 392 | 305 |
| | | 12 | 11 | 6.7 | 271 | 209 | 270 | 208 | 267 | 207 | 261 | 204 |
| | | 13 | 4 | 3.7 | 116 | 90 | 116 | 90 | 115 | 69 | 113 | 88 |
| | | 14 | 1 | 1.1 | 34 | 26 | 34 | 26 | 34 | 26 | 33 | 26 |
| | | | | | 295 | 104.1 | 3005 | 2252 | 2979 | 2233 | 2916 | 2167 |
| | | | | | MEAN DIA. | 6.0 | INCHES. WEIBULL PARAMETERS A= .0. B= 8.52. C= 3.51 | | | | 2799 | 20 % |

| Age | Av. dom h t . . | D.b.h . | Stems per acre | Basal area | All trees, total stem | | 4 -inch class and greater to o.b. tops of— | | | | | | |
|--|--------------------------|------------|----------------------|---------------|--------------------------|-------|--|-------|-------|-------|-------|-------|--|
| | | | | | 0. b. | I. b. | 0. b. | I. b. | 0. b. | I. b. | 0. b. | I. b. | |
| Yrs | Ft | In | No. | Ft 2 | Ft 3 | | | | | | | | |
| 35 | 64 | 2 | 2 | .0 | 0 | 0 | | | | | | | |
| | | 3 | 5 | .2 | 4 | 1 | | | | | | | |
| | | 4 | 9 | .5 | 18 | 11 | 17 | 10 | 15 | 9 | 12 | 6 | |
| | | 5 | 16 | 2.2 | 58 | 41 | 57 | 40 | 54 | 37 | 48 | 31 | |
| | | 6 | 22 | 4.3 | 122 | 91 | 120 | 99 | 116 | 85 | 108 | n | |
| | | 7 | 29 | 7.7 | 229 | 173 | 227 | 171 | 221 | 165 | 210 | 155 | |
| | | 8 | 34 | 11.9 | 360 | 275 | 357 | 273 | 350 | 267 | 337 | 2% | |
| | | 9 | 35 | 15.5 | 477 | 366 | 474 | 364 | 467 | 3% | 453 | 347 | |
| | | 10 | 34 | 18.5 | 579 | 448 | 576 | 446 | 569 | 440 | 555 | 429 | |
| | | 11 | 29 | 19.1 | 604 | 467 | 601 | 465 | 595 | 461 | 582 | 452 | |
| | | 12 | 22 | 17.3 | 549 | 426 | 547 | 425 | 542 | 422 | 532 | 416 | |
| | | 13 | 14 | 12.9 | 412 | 321 | 411 | 320 | 407 | 316 | 401 | 314 | |
| | | 14 | 9 | 6.5 | 275 | 214 | 274 | 214 | 272 | 212 | 266 | 210 | |
| | | 15 | 4 | 4.9 | 158 | 124 | 158 | 124 | 156 | 123 | 154 | 121 | |
| | | 16 | 2 | 2.8 | 90 | 70 | 90 | 70 | 89 | 70 | 88 | 69 | |
| | | 17 | 1 | 1.6 | 51 | 40 | 51 | 40 | 51 | 40 | 50 | 39 | |
| | | 266 | 128.3 | 3.9 % | 3068 | 3960 | 3051 | 3904 | 3007 | 3798 | 2921 | | |
| MEAN DIA. 9.4 INCHES. WEIBULL PARAMETERS A= .0. B= 9.96. C= 3.46 | | | | | | | | | | | | | |
| 40 | 70 | 2 | 1 | .0 | 1 | 0 | | | | | | | |
| | | 3 | 3 | .1 | 5 | 3 | | | | | | | |
| | | 4 | 6 | .5 | 17 | 12 | 16 | 11 | 15 | 10 | 12 | 7 | |
| | | 5 | 9 | 1.2 | 39 | 31 | 38 | 30 | 36 | 28 | 32 | 23 | |
| | | 6 | 13 | 2.5 | 83 | 65 | 82 | 64 | 76 | 60 | 71 | 53 | |
| | | 7 | 18 | 4.6 | 156 | 122 | 154 | 120 | 149 | 116 | 140 | 107 | |
| | | 8 | 22 | 7.6 | 249 | 196 | 247 | 194 | 241 | 188 | 229 | 178 | |
| | | 9 | 25 | 11.0 | 359 | 282 | 356 | 280 | 350 | 274 | 337 | 262 | |
| | | 10 | 27 | 14.7 | 480 | 377 | 477 | 374 | 469 | 368 | 4% | 356 | |
| | | 11 | 27 | 17.8 | 582 | 457 | 579 | 454 | 571 | 449 | 555 | 437 | |
| | | 12 | 25 | 19.6 | 642 | 504 | 639 | 502 | 631 | 4% | 616 | 486 | |
| | | 13 | 21 | 19.3 | 633 | 4% | 630 | 496 | 624 | 492 | 612 | 483 | |
| | | 14 | 17 | 18.1 | 5% | 467 | 593 | 466 | 587 | 462 | 577 | 456 | |
| | | 15 | 12 | 14.7 | 482 | 379 | 480 | 378 | 477 | 376 | 469 | 372 | |
| | | 16 | 6 | 11.1 | 368 | 287 | 365 | 267 | 362 | 285 | 357 | 283 | |
| | | 17 | 5 | 7.9 | 258 | 203 | 257 | 203 | 256 | 202 | 253 | 200 | |
| | | 18 | 3 | 5.3 | 173 | 137 | 173 | 137 | 172 | 136 | 1-m | 135 | |
| | | 19 | 1 | 2.0 | 64 | 50 | 64 | 50 | 64 | 50 | 63 | 51 | |
| | | 20 | 1 | 2.2 | 71 | 56 | 71 | 56 | 71 | 56 | 71 | 56 | |
| | | 244 | 160.3 | 5255 | 4126 | 5221 | 4102 | 5153 | 4048 | 5019 | 3945 | | |
| MEAN DIA. 11.0 INCHES. WEIBULL PARAMETERS A= .0. B= 11.61. C= 3.34 | | | | | | | | | | | | | |

SI 50

500 trees per acre

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | 4 -inch class and greater to o.b. tops of— | | | | | | | |
|-----|--------------------|--------|----------------------|---------------|--------------------------------|--|-------|----------|-------|----------|-------|-------------|------|
| | | | | | | 2 inches | | 3 inches | | 4 inches | | | |
| Yrs | Ft | In | No. | Ft 2 | | 0. b. | I. b. | 0. b. | I. b. | 0. b. | I. b. | 0. b. I. b. | Ft 3 |
| 15 | 29 | I | 109 | .6 | | 0 | 0 | | | | | | |
| | | 2 | 123 | 2.7 | | 0 | 0 | | | | | | |
| | | 3 | 110 | 5.4 | | 62 | 25 | | | | | | |
| | | 4 | n | 6.7 | | 122 | 73 | 119 | 70 | 111 | 65 | 95 | 53 |
| | | 5 | 45 | 6. | I | 130 | 85 | 127 | 63 | 120 | 77 | 107 | 67 |
| | | 6 | 22 | 4.3 | | 98 | 66 | 96 | 65 | 92 | 61 | 83 | 55 |
| | | 7 | 9 | 2.4 | | 57 | 39 | 56 | 38 | 54 | 36 | 49 | 33 |
| | | 6 | 4 | I .4 | | 34 | 23 | a | 23 | 32 | 22 | 29 | 20 |
| | | 9 | I | .4 | II | 8 | 11 | 8 | II | 6 | 10 | 7 | |
| | | | | | | | | | | a | | | |
| | | | 500 | 30.0 | | 514 | 319 | 442 | 267 | 420 | 269 | 373 | 235 |
| | | | MEAN DIA. | 3.3 | INCHES. | WEIBULL PARAMETERS A = .0, B = 3.24, C = 1.62 | | | | | | | |
| 20 | 41 | I | II | .1 | | 0 | 0 | | | | | | |
| | | 2 | 34 | .7 | | 0 | 0 | | | | | | |
| | | 3 | 64 | 3.1 | | 2' | 0 | | | | | | |
| | | 4 | 88 | 7.7 | | 108 | 49 | 102 | 43 | 87 | 29 | 58 | 2 |
| | | 5 | 94 | 12.6 | | 262 | 165 | 254 | 159 | 234 | 143 | 195 | 113 |
| | | 6 | 78 | 13.3 | | 365 | 251 | 357 | 246 | 336 | 232 | 297 | 207 |
| | | 7 | 51 | 13.6 | | 353 | 253 | 346 | 249 | 330 | 240 | 299 | 223 |
| | | 8 | 26 | 9. 1 | 246 | 181 | 244 | 179 | 234 | 174 | 214 | 165 | |
| | | 9 | 10 | 4.4 | | 125 | 93 | 123 | 92 | 118 | 90 | 109 | 85 |
| | | 10 | 3 | 1.6 | | 47 | 35 | 46 | 35 | 45 | 35 | 42 | 34 |
| | | II | 1 | .7 | | 20 | 15 | 20 | 15 | 19 | 14 | 17 | 13 |
| | | | 460 | 69.2 | | 1530 | 1042 | 1492 | 1018 | 1403 | 957 | 1231 | 642 |
| | | | MEAN OIA. | S.3 | INCHES. | WEIBULL PARAMETERS A = .0, B = 5.51, C = 2.67 | | | | | | | |
| 25 | JO | I | 3 | .0 | | 0 | 8 | | | | | | |
| | | 2 | II | .2 | | 0 | 0 | | | | | | |
| | | 3 | 26 | 1.3 | | 0 | 0 | | | | | | |
| | | 4 | 46 | 4.0 | | 57 | 24 | 53 | 21 | 43 | 14 | 25 | 0 |
| | | 5 | 63 | 6.6 | | 176 | 113 | 172 | 108 | 159 | 95 | 134 | 70 |
| | | 6 | 74 | 11.6 | | 366 | 247 | 349 | 241 | 332 | 227 | 298 | 199 |
| | | 7 | 68 | 16.3 | | 486 | 352 | 479 | 347 | 461 | 334 | 427 | 309 |
| | | 8 | 53 | 18.6 | | 521 | 386 | 515 | 382 | MO | 372 | 471 | 353 |
| | | 9 | 33 | 14.6 | | 425 | 319 | 421 | 317 | 410 | 311 | 390 | 301 |
| | | 10 | 16 | 6.6 | | 260 | 198 | 259 | 197 | 252 | 194 | 242 | 189 |
| | | II | 6 | 4.0 | | 120 | 92 | 119 | 92 | 117 | 91 | 112 | 89 |
| | | 12 | 2 | I .6 | | 49 | 37 | 49 | 37 | 47 | 37 | 45 | 36 |
| | | | 401 | 94.6 | | 2452 | 1768 | 2415 | IN2 | 2 3 2 1 | 1675 | 2144 | 1546 |
| | | | MEAN DIA. | 6. 6 | INCHES. | WEIBULL PARAMETERS A = .08, B = 6.95, C = 3.27 | | | | | | | |
| 30 | 58 | I | I | .0 | | 0 | 0 | | | | | | |
| | | 2 | 5 | .1 | | 0 | 0 | | | | | | |
| | | 3 | I2 | .6 | | 3 | 0 | | | | | | |
| | | 4 | 23 | 2.0 | | 34 | 19 | 32 | 17 | 27 | 12 | 18 | 2 |
| | | 5 | 36 | 4.9 | | 112 | 75 | 109 | 72 | 101 | 64 | 87 | so |
| | | 6 | 55 | 14.8 | | 410 | 301 | 405 | 267 | 392 | 157 | 368 | 266 |
| | | 8 | 54 | 19.0 | | 548 | 411 | 543 | 407 | 530 | 397 | 596 | 370 |
| | | 9 | 47 | 20.9 | | 622 | 471 | 617 | 468 | 605 | 460 | se2 | 444 |
| | | 10 | 34 | 16.7 | | 566 | 433 | 562 | 431 | 554 | 425 | 537 | 414 |
| | | 11 | 21 | 13.9 | | 429 | 330 | 427 | 329 | 421 | 326 | 410 | 326 |
| | | 12 | 11 | 0.7 | | 271 | 209 | 270 | 208 | 266 | 206 | 260 | 203 |
| | | 13 | 4 | 3.7 | | 117 | 90 | 116 | 90 | 115 | 69 | 112 | 88 |
| | | 14 | 1 | 1.1 | | 34 | 26 | 34 | 26 | 34 | 26 | 26 | 26 |
| | | | 351 | 117.7 | | 3386 | 2536 | 3351 | 2512 | 3 2 7 0 | 2448 | | 2330 |
| | | | MEAN DIA. | 7. 6 | INCHES. | WEIBULL PARAMETERS A = .O. B = 6.30, C = 3.40 | | | | | | | |

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | | 4 -inch class and greater to o.b. tops of— | | | | | |
|-----|--------------------|--------|----------------------|---------------|--|-------|--|-------|----------|------|----------|-------|
| | | | | | 0. b. | I. b. | 2 inches | | 3 inches | | 4 inches | |
| Yrs | Ft | In | No. | Ft 2 | Ft 3 | | | | | | Ft 3 | |
| 35 | 64 | 1 | 1 | .0 | 0 | 0 | | | | | | |
| | | 2 | 3 | .1 | 0 | 0 | | | | | | |
| | | 3 | 7 | .3 | 5 | 2 | | | | | | |
| | | 4 | 12 | 1.0 | 23 | 15 | 22 | 14 | 20 | 11 | 15 | 6 |
| | | 5 | 20 | 2.7 | 71 | 51 | 69 | 49 | 65 | 45 | 56 | 36 |
| | | 6 | 28 | 5.5 | 155 | 115 | 152 | 112 | 146 | 107 | 134 | 95 |
| | | 7 | 35 | 9.4 | 276 | 208 | 273 | 205 | 265 | 198 | 249 | 184 |
| | | 6 | 40 | 14.0 | 423 | 323 | 419 | 319 | 410 | 311 | 392 | 295 |
| | | 9 | 41 | 18.1 | 559 | 429 | 555 | 426 | 545 | 418 | 526 | 402 |
| | | 10 | 38 | 20.7 | 648 | 500 | 644 | 497 | 634 | 490 | 616 | 476 |
| | | 11 | 32 | 21.1 | 667 | 516 | 663 | 514 | 655 | 508 | 636 | 497 |
| | | 12 | 24 | 18.8 | 599 | 465 | 596 | 463 | 590 | 459 | 577 | 451 |
| | | 13 | 15 | 13.8 | 442 | 344 | 440 | 343 | 436 | 341 | 426 | 336 |
| | | 14 | 9 | 9.6 | 309 | 241 | 308 | 240 | 305 | 239 | 300 | 236 |
| | | 15 | 4 | 4.9 | 158 | 124 | 158 | 124 | 156 | 123 | 154 | 122 |
| | | 16 | 2 | 2.6 | 90 | 70 | 90 | 70 | 89 | 70 | 88 | -- 70 |
| | | 17 | 1 | 1.6 | 51 | 40 | 51 | 40 | 50 | 40 | 49 | 39 |
| | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | | 312 | 144.5 | 4476 | 3443 | 4440 | 3416 | 4366 | 3360 | 4222 | 3245 |
| | | | | | MEAN DIA. 9.2 INCHES. WEIBULL PARAMETERS A= .0. B= 9.75. C= 3.37 | | | | | | | |
| 40 | 70 | 2 | 2 | .0 | 1 | t | | | | | | |
| | | 3 | 4 | .2 | 6 | 4 | | | | | | |
| | | 4 | 7 | .6 | 18 | 14 | 18 | 13 | 16 | 11 | 12 | 7 |
| | | 5 | 12 | 1.6 | 52 | 40 | 50 | 38 | 47 | A | 39 | 27 |
| | | 6 | 17 | 3.3 | 108 | 83 | 106 | 81 | 100 | 76 | 98 | 66 |
| | | 7 | 22 | 5.9 | 190 | 148 | 187 | 145 | 180 | 139 | 166 | 126 |
| | | 8 | 26 | 9.1 | 295 | 231 | 291 | 228 | 263 | 220 | 266 | 204 |
| | | 9 | 30 | 13.3 | 432 | 338 | 428 | 334 | 418 | 325 | 398 | 306 |
| | | 10 | 29 | 15.6 | 516 | 405 | 512 | 401 | 502 | 333 | 462 | 377 |
| | | 11 | 31 | 20.5 | 669 | 526 | 664 | 522 | 653 | 513 | 632 | 495 |
| | | 12 | 28 | 22.0 | 721 | 566 | 717 | 553 | 706 | 555 | 686 | 541 |
| | | 13 | 24 | 22.1 | 726 | 570 | 722 | 567 | 713 | 561 | 695 | 549 |
| | | 14 | 18 | 19.3 | 632 | 496 | 629 | 494 | 622 | 490 | 606 | 481 |
| | | 15 | 13 | 16.0 | 524 | 411 | 522 | 410 | 517 | 407 | 507 | 401 |
| | | 16 | 9 | 12.6 | 413 | 325 | 412 | 324 | 408 | 322 | 401 | 318 |
| | | 17 | 5 | 7.9 | 259 | 204 | 2 % | 203 | 256 | 202 | 252 | 200 |
| | | 18 | 3 | 5.3 | 137 | 137 | 174 | 137 | 172 | 136 | 170 | 135 |
| | | 19 | 1 | 2.0 | 65 | 51 | 65 | 51 | 64 | 51 | 63 | 50 |
| | | 20 | t | 2.2 | 71 | 57 | 71 | 57 | 71 | 57 | 70 | 56 |
| | | --- | --- | --- | --- | --- | --- | --- | -a- | me-- | --- | --- |
| | | | 282 | 179.6 | 5673 | 4607 | 5826 | 4 % 8 | 5726 | 4493 | 5535 | 4342 |
| | | | | | MEAN DIA. 10.8 INCHES. WEIBULL PARAMETERS A= .0. B= 11.42. C= 3.27 | | | | | | | |

SI 60

100 trees per acre

| Age | Av. dom. ht. | D.b.h. In | Stems per acre | Basal area | All trees, total stem | | 4 -inch class and greater to o.b. tops of— | | | | | | | | | |
|------|--------------------|---|----------------------|---------------|--------------------------|-------|--|------|----------|------|----------|-----|------|-----|-----|-----|
| | | | | | 0. b. | I. b. | 2 inches | | 3 inches | | 4 inches | | | | | |
| Yrs | Ft | In | No. | Ft 2 | | | | | | | | | Ft 3 | | | |
| 15 | 35 | 2 | 2 | .0 | 0 | 0 | | | | | | | 0 | 0 | | |
| | | 3 | 6 | .3 | 0 | 0 | | | | | | | | | | |
| | | 4 | 13 | 1.1 | 4 | 0 | 3 | 0 | 2 | 0 | 0 | | | | | |
| | | 5 | 20 | 2.7 | 37 | 16 | 35 | 18 | 32 | II | 24 | 4 | | | | |
| | | 6 | 24 | 4.7 | 90 | 53 | 88 | 51 | 62 | 48 | 71 | 40 | | | | |
| | | 7 | 19 | 5.1 | 115 | 76 | 113 | 75 | 107 | 71 | 96 | 65 | | | | |
| | | 8 | 11 | 3.8 | 95 | 66 | 94 | 65 | 90 | 63 | a3 | 60 | | | | |
| | | 9 | 4 | 1.6 | 47 | 33 | 46 | 33 | 44 | 32 | 41 | 30 | | | | |
| | | 10 | 1 | .5 | 15 | II | 15 | II | 14 | II | 13 | 10 | | | | |
| | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | 100 | 20.2 | 403 | 255 | 394 | 250 | 371 | 236 | 328 | 209 | | | | | |
| | | MEAN DIA. 6.1 INCHES. WEIBULL PARAMETERS A= .0. B= 6.46. C= 3.69 | | | | | | | | | | | | | | |
| 20 | 49 | 3 | 1 | .0 | 0 | 0 | | | | | | | 0 | 0 | | |
| | | 4 | 4 | .3 | 2 | 0 | 2 | 0 | 1 | 0 | 0 | | | | | |
| | | 5 | 6 | 1.1 | 18 | 8 | 17 | 7 | 15 | 6 | 11 | 3 | | | | |
| | | 6 | 14 | 2.7 | 58 | 36 | 57 | 35 | 54 | 32 | 46 | 27 | | | | |
| | | 7 | 19 | 5.0 | 123 | 82 | 121 | 80 | 117 | 77 | 108 | 70 | | | | |
| | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | 6 | 20 | 6.9 | 182 | 129 | 180 | 126 | 175 | 123 | 166 | 116 | | | | |
| | | 9 | 16 | 7.0 | 1% | 139 | 193 | 138 | 169 | 136 | 180 | 132 | | | | |
| | | 10 | 9 | 4.9 | 140 | 102 | 139 | 102 | 137 | 100 | 132 | 98 | | | | |
| | | 11 | 4 | 2.6 | 77 | 57 | 77 | 57 | 76 | 56 | 74 | 55 | | | | |
| | | 12 | 1 | .8 | 23 | 17 | 23 | 17 | 23 | 17 | 22 | 17 | | | | |
| | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | 96 | 31.4 | 618 | 569 | 809 | 562 | 767 | 547 | 741 | 519 | | | | | |
| | | MEAN DIA. 7.7 INCHES. WEIBULL PARAMETERS A= .0. B= 6.23. C= 4.60 | | | | | | | | | | | | | | |
| 2560 | | 3 | 1 | .0 | 0 | 0 | | | | | | | 3 | 1 | | |
| | | 4 | 2 | .2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 1 | | | | |
| | | 5 | 4 | .5 | 13 | 9 | 13 | 9 | 13 | 8 | 12 | 7 | | | | |
| | | 6 | 8 | 1.6 | 43 | 31 | 43 | 31 | 42 | 29 | 40 | 27 | | | | |
| | | 7 | 12 | 3.2 | 93 | 67 | 92 | 67 | 91 | 65 | 88 | 63 | | | | |
| | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | 6 | 16 | 6.6 | 169 | 123 | 168 | 122 | 1% | 120 | 161 | 117 | | | | |
| | | 9 | 16 | 7.1 | 219 | 161 | 218 | 169 | 215 | 159 | 210 | 156 | | | | |
| | | 10 | 15 | 6.2 | 257 | 190 | 256 | 169 | 254 | 188 | 249 | 1% | | | | |
| | | 11 | 10 | 6.6 | 210 | 157 | 209 | 157 | 208 | 156 | 205 | 154 | | | | |
| | | 12 | 5 | 4.0 | 126 | 95 | 126 | 95 | 125 | 95 | 123 | 94 | | | | |
| | | 13 | 2 | 1.9 | 60 | 45 | 60 | 45 | 60 | 45 | 59 | 44 | | | | |
| | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | 91 | 39.0 | 1193 | 880 | 1188 | 877 | 1177 | 667 | 1150 | 849 | | | | | |
| | | MEAN DIA. 8.9 INCHES. WEIBULL PARAMETERS A= .0. B= 9.41. C= 4.71 | | | | | | | | | | | | | | |
| 30 | 69 | 4 | 1 | .1 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | | | | |
| | | 5 | 3 | .4 | 14 | 10 | 14 | 10 | 14 | 10 | 14 | 10 | | | | |
| | | 6 | 5 | 1.0 | 33 | 26 | 33 | 26 | 33 | 26 | 33 | 25 | | | | |
| | | 7 | 7 | 1.9 | 63 | 49 | 63 | 49 | 63 | 49 | 62 | 48 | | | | |
| | | 8 | 10 | 3.5 | 119 | 91 | 119 | 91 | 116 | 91 | 117 | 90 | | | | |
| | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | 9 | 13 | 5.7 | 195 | 150 | 195 | 150 | 195 | 149 | 194 | 149 | | | | |
| | | 10 | 14 | 7.6 | 260 | 199 | 260 | 199 | 259 | 196 | 257 | 197 | | | | |
| | | 11 | 13 | 0.6 | 292 | 224 | 292 | 224 | 291 | 223 | 289 | 222 | | | | |
| | | 12 | 10 | 7.8 | 267 | 204 | 267 | 204 | 266 | 204 | 265 | 204 | | | | |
| | | 13 | 6 | 4.5 | la6 | 143 | 166 | 143 | 188 | 143 | 187 | 144 | | | | |
| | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | 14 | 3 | 3.2 | 109 | 64 | 109 | 64 | 109 | 64 | 108 | 63 | | | | |
| | | 15 | 1 | 1.2 | 41 | 32 | 41 | 32 | 41 | 32 | 41 | 32 | | | | |
| | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | 86 | 46.6 | 1564 | 1214 | 1584 | 1214 | 1580 | 1211 | 1570 | 1205 | | | | | |
| | | MEAN DIA. 10.0 INCHES. WEIBULL PARAMETERS A= .0. B= 10.59. C= 4.56 | | | | | | | | | | | | | | |

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | 4-inch class and greater to o.b. tops of— | | | | | | | |
|-----|--------------------|---|----------------------|---------------|---|-------|----------|-------|----------|-------|----------|-------|
| | | | | | All trees, total stem | | 2 inches | | 3 inches | | 4 inches | |
| Yrr | Ft | In | No. | Ft 2 | Ft 3 | | | | | | | |
| 35 | 77 | 4 | 1 | .1 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 |
| | | 5 | 2 | .3 | 10 | 6 | 10 | 8 | 10 | 8 | 10 | a |
| | | 6 | 3 | .6 | 22 | 17 | 22 | 17 | 22 | 17 | 22 | 17 |
| | | 7 | 5 | 1.4 | so | 40 | so | 40 | 50 | CO | 50 | 40 |
| | | 8 | 7 | 2.5 | 92 | 72 | 92 | 72 | 92 | 72 | 92 | 72 |
| | | 9 | 9 | 4.1 | 149 | 116 | 149 | 116 | 149 | 117 | 148 | 116 |
| | | 10 | 10 | 5.6 | 203 | 161 | 203 | 161 | 203 | 161 | 203 | 161 |
| | | 11 | 11 | 7.4 | 271 | 213 | 271 | 213 | 271 | 213 | 271 | 213 |
| | | 12 | 11 | 8.8 | 323 | 254 | 323 | 254 | 323 | 254 | 323 | 254 |
| | | 13 | 9 | 8.5 | 309 | 243 | 309 | 243 | 309 | 243 | 309 | 243 |
| | | 14 | 7 | 7.6 | 290 | 220 | 260 | 220 | 260 | 220 | 260 | 220 |
| | | 15 | 4 | 5.0 | 163 | 144 | 163 | 144 | 163 | 144 | 163 | 144 |
| | | 16 | 2 | 2.8 | 104 | 81 | 104 | 81 | 104 | 81 | 104 | 81 |
| | | 17 | 1 | 1.6 | 59 | 47 | 59 | 47 | 59 | 47 | 59 | 47 |
| | | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| | | 82 | 56.2 | 20% | 1620 | 2056 | 1620 | 2056 | 1619 | 2057 | 1616 | |
| | | MEAN DIA. 11.2 INCHES. WEIBULL PARAMETERS A = .0. B = 11.91. C = 4.29 * | | | | | | | | | | |
| 40 | 84 | 4 | 1 | .1 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 |
| | | 5 | 1 | .1 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | 4 |
| | | 6 | 2 | .4 | 15 | 12 | 15 | 12 | 15 | 12 | 15 | 12 |
| | | 7 | 3 | .8 | 31 | 25 | 31 | 25 | 31 | 25 | 31 | 25 |
| | | 8 | 4 | 1.4 | 54 | 43 | 54 | 43 | 54 | 43 | 54 | 43 |
| | | 9 | 6 | 2.7 | 104 | 63 | 104 | 63 | 104 | a3 | 104 | 63 |
| | | 10 | 7 | 3.6 | 148 | 119 | 148 | 119 | 148 | 119 | 148 | 119 |
| | | 11 | 8 | 5.3 | 205 | 165 | 205 | 165 | 205 | 165 | 205 | 165 |
| | | 12 | 9 | 7.1 | 275 | 220 | 275 | 220 | 275 | 220 | 275 | 220 |
| | | 13 | 10 | 9.3 | 356 | 267 | 356 | 267 | 356 | 267 | 356 | 267 |
| | | 14 | 8 | 6.6 | 333 | 267 | 333 | 267 | 333 | 267 | 333 | 267 |
| | | 15 | 7 | 6.6 | 334 | 269 | 334 | 269 | 334 | 269 | 334 | 269 |
| | | 16 | 5 | 7.0 | 272 | 218 | 272 | 218 | 272 | 218 | 272 | 218 |
| | | 17 | 4 | 6.3 | 245 | 197 | 245 | 197 | 245 | 197 | 245 | 197 |
| | | 16 | 2 | 3.6 | 137 | 110 | 137 | 110 | 137 | 110 | 137 | 110 |
| | | 19 | 1 | 2.0 | 76 | 62 | 76 | 62 | 76 | 62 | 76 | 62 |
| | | 20 | 1 | 2.2 | 85 | 68 | 65 | 66 | 65 | 66 | 65 | 66 |
| | | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| | | 79 | 69.3 | 2661 | 2151 | 2691 | 2151 | 2681 | 2151 | 266 I | 2151 | |
| | | MEAN DIA. 12.7 INCHES. WEIBULL PARAMETERS A = .0. B = 13.47. C = 3.96 | | | | | | | | | | |

SI 60

200 trees per acre

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | | 4 -inch class and greater to o.b. tops of— | | | |
|-----|---|-------------|----------------------|---------------|--------------------------|-------------|--|------------|-------------|-----------------------|
| | | | | | 0. b. | I. b. | 0. b. | I. b. | 0. b. | I. b. |
| Yrs | Ft | In | No. | Ft 2 | Ft 3 | | | | | |
| 15 | 35 | | 3 | .0 | 0 | 0 | | | | |
| | 2 | 12 | 3 | .3 | 0 | 0 | | | | |
| | 3 | 26 | 1.3 | | 0 | 0 | | | | |
| | 4 | 39 | 3.4 | 33 | 7 | 31 | 6 | 25 | 4 | 15 0 |
| | 5 | 43 | 5.8 | 102 | 57 | 93 | 54 | 91 | 49 | 76 37 |
| | 6 | 38 | 7.4 | 161 | 103 | 157 | 100 | 148 | 95 | 130 63 |
| | 7 | 24 | 6.4 | 154 | 105 | 151 | 103 | 144 | 99 | 130 91 |
| | 8 | 11 | 3.8 | 98 | 70 | 96 | 69 | 93 | 67 | 85 62 |
| | 9 | 3 | 1.3 | 36 | 25 | 35 | 25 | 34 | 24 | 31 23 |
| | 10 | 1 | .5 | 15 | 11 | 15 | 11 | 14 | 11 | 13 10 |
| | 200 | 30.2 | 599 | 378 | 584 | 368 | 549 | 349 | 480 | 306 |
| | MEAN DIA. 5.3 INCHES. WEIBULL PARAMETERS A = .0. 8 = 5.56. C = 3.23 | | | | | | | | | |
| 20 | 49 | 2 | 2 | .0 | 0 | 0 | | | | |
| | 3 | 7 | .3 | .0 | 0 | | | | | |
| | 4 | 15 | 1.3 | 14 | 3 | 13 | 3 | 10 | 2 | 5 0 |
| | 5 | 26 | 3.5 | 67 | 31 | 65 | 35 | 59 | 30 | 49 21 |
| | 6 | 36 | 7.0 | 163 | 107 | 160 | 104 | 152 | 98 | 137 85 |
| | 7 | 39 | 10.4 | 2% | 185 | 264 | 182 | 255 | 176 | 238 163 |
| | 8 | 33 | 11.5 | 316 | 225 | 313 | 223 | 304 | 217 | 288 207 |
| | 9 | 20 | 8.8 | 253 | 183 | 251 | 182 | 245 | 179 | 234 174 |
| | 10 | 9 | 4.9 | 145 | 107 | 144 | 106 | 141 | 105 | 136 102 |
| | 11 | 3 | 2.0 | 60 | 44 | 60 | 44 | --- | 44 | 56 43 |
| | 190 | 49.0 | 1286 | 891 | 1270 | 079 | | 851 | 1143 | 795 |
| | MEAN DIA. 6.9 INCHES. WEIBULL PARAMETERS A = .0. 8 = 7.37. C = 3.99 | | | | | | | | | |
| 25 | 60 | 2 | 1 | .0 | 0 | 0 | | | | |
| | 3 | 3 | .1 | 2 | 0 | | | | | |
| | 4 | 7 | .5 | 13 | 7 | 12 | 7 | 11 | 6 | 9 4 |
| | 5 | 14 | 1.9 | 46 | 33 | 47 | 32 | 45 | 30 | 42 27 |
| | 6 | 22 | 4.4 | 121 | 86 | 120 | 85 | 116 | 81 | 103 75 |
| | 7 | 29 | 7.8 | 220 | 165 | 226 | 164 | 222 | 160 | 213 153 |
| | 8 | 34 | 12.0 | 361 | 265 | 359 | 263 | 353 | 259 | 343 251 |
| | 9 | 29 | 12.9 | 399 | 295 | 397 | 294 | 392 | 290 | 382 284 |
| | 10 | 21 | 11.5 | 362 | 269 | 360 | 268 | 357 | 266 | 349 262 |
| | 11 | 11 | 7.3 | 232 | 173 | 231 | 173 | 229 | 172 | 225 170 |
| | 12 | 4 | 3.2 | 101 | 76 | 101 | 76 | 100 | 76 | 99 75 |
| | 13 | 1 | .9 | 30 | 22 | 30 | 22 | 30 | 22 | 29 23 |
| | 176 | 62.7 | 1697 | 1391 | 1883 | 1384 | 1855 | 1362 | 1800 | 1324 |
| | MEAN DIA. 8.1 INCHES. WEIBULL PARAMETERS A = .0. 8 = 8.58. C = 4.17 | | | | | | | | | |
| 30 | 69 | 2 | 1 | .0 | 1 | 1 | | | | |
| | 3 | 2 | .1 | 3 | 2 | | | | | |
| | 4 | 4 | .3 | 12 | 9 | 12 | 9 | 12 | 9 | 11 8 |
| | 5 | 8 | 1.1 | 37 | 28 | 37 | 28 | 36 | 28 | 35 27 |
| | 6 | 13 | 2.6 | 86 | 65 | 86 | 65 | 85 | 64 | 63 62 |
| | 7 | 19 | 5.1 | 170 | 130 | 170 | 129 | 168 | 128 | 166 126 |
| | 8 | 24 | 6.4 | 282 | 215 | 281 | 214 | 279 | 213 | 276 210 |
| | 9 | 25 | 11.0 | 372 | 283 | 371 | 202 | 369 | 281 | 365 278 |
| | 10 | 24 | 13.1 | 441 | 336 | 440 | 336 | 436 | 334 | 434 332 |
| | 11 | 19 | 12.5 | 422 | 322 | 421 | 322 | 419 | 320 | 416 318 |
| | 12 | 13 | 10.2 | 343 | 262 | 343 | 262 | 342 | 261 | 340 260 |
| | 13 | 7 | 6.5 | 217 | 165 | 217 | 165 | 216 | 165 | 215 165 |
| | 14 | 3 | 3.2 | 108 | 83 | 108 | 83 | 108 | 83 | 107 82 |
| | 15 | 1 | 1.2 | 41 | 32 | 41 | 32 | 41 | 32 | 41 32 |
| | 163 | 75.3 | 2535 | 1933 | 2527 | 1927 | 2513 | 1918 | 2489 | 1900 |
| | MEAN DIA. 9.2 INCHES. WEIBULL PARAMETERS A = .0. 8 = 9.70. C = 4.11 | | | | | | | | | |

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | 4 -inch class and greater to o.b. tops of— | | | | | |
|-----|--------------------|--|----------------------|---------------|--------------------------|--|---------|----------|---------|----------|---------|
| | | | | | | 2 inches | | 3 inches | | 4 inches | |
| | | | | | O b. | I b. | O b. | I b. | O b. | I b. | O b. |
| Yrs | Ft | In | No. | Ft 2 | - - - | - - - | Ft 3 | - - - | - - - | - - - | - - - |
| 35 | 77 | 3 | 1 | .0 | 2 | 1 | | | | | |
| | | 4 | 3 | .3 | 10 | 8 | 10 | 8 | 10 | 8 | 10 |
| | | 5 | 5 | .7 | 25 | 19 | 25 | 19 | 25 | 19 | 25 |
| | | 6 | 8 | 1.6 | 58 | 46 | 58 | 46 | 57 | 46 | 56 |
| | | 7 | 12 | 3.2 | 117 | 92 | 117 | 92 | 117 | 92 | 116 |
| | | 6 | 16 | 6.6 | 205 | 161 | 205 | 161 | 204 | 160 | 203 |
| | | 9 | 19 | 8.5 | 307 | 241 | 307 | 241 | 306 | 241 | 305 |
| | | 10 | 22 | 12.1 | 440 | 344 | 440 | 344 | 439 | 343 | 436 |
| | | 11 | 20 | 13.4 | 483 | 379 | 483 | 379 | 462 | 379 | 481 |
| | | 12 | 17 | 13.5 | 490 | 363 | 490 | 363 | 489 | 363 | 487 |
| | | 13 | 13 | 12.1 | 439 | 344 | 439 | 344 | 439 | 343 | 438 |
| | | 14 | 9 | 9.7 | 353 | 276 | 353 | 276 | 353 | 276 | 352 |
| | | 15 | 5 | 6.2 | 225 | 177 | 225 | 177 | 225 | 177 | 224 |
| | | 16 | 2 | 2.6 | 102 | 80 | 102 | 80 | 102 | 80 | 102 |
| | | 17 | 1 | 1.6 | 58 | 46 | 58 | 46 | 58 | 46 | 58 |
| | | 153 | 91.5 | 3314 | 2597 | 3312 | 2596 | 3306 | 2593 | 3295 | 2562 |
| | | MEAN DIA. 10.5 INCHES. WEIBULL PARAMETERS A= .0, B= 11.12, C= 3.93 | | | | | | | | | |

| | | | | | | | | | | | |
|----|----|--|-------|------|------|------|------|------|------|------|------|
| CO | 84 | 3 | 1 | .0 | 2 | 1 | | | | | |
| | | 4 | 2 | .2 | 7 | 5 | 7 | 5 | 7 | 5 | 7 |
| | | 5 | 3 | .4 | 16 | 12 | 16 | 12 | 16 | 12 | 16 |
| | | 6 | 5 | 1.0 | 37 | 30 | 37 | 30 | 37 | 30 | 37 |
| | | 7 | 8 | 2.1 | 81 | 65 | 81 | 65 | 81 | 65 | 81 |
| | | 6 | 10 | 3.5 | 133 | 107 | 133 | 107 | 133 | 107 | 132 |
| | | 9 | 12 | s.3 | 202 | 162 | 202 | 162 | 202 | 162 | 201 |
| | | 10 | 15 | 0.2 | 312 | 249 | 312 | 249 | 312 | 249 | 311 |
| | | 11 | 16 | 10.5 | 402 | 322 | 402 | 322 | 402 | 322 | 401 |
| | | 12 | 16 | 12.5 | 479 | 364 | 479 | 384 | 479 | 383 | 476 |
| | | 13 | 15 | 13.6 | 528 | 421 | 528 | 421 | 527 | 421 | 526 |
| | | 14 | 13 | 13.9 | 530 | 424 | 530 | 424 | 530 | 424 | 523 |
| | | 15 | 10 | 12.2 | 466 | 374 | 469 | 374 | 468 | 374 | 467 |
| | | 16 | 7 | 9.8 | 373 | 298 | 373 | 298 | 373 | 298 | 372 |
| | | 17 | 5 | 7.9 | 301 | 240 | 301 | 240 | 301 | 240 | 300 |
| | | 18 | 3 | 5.3 | 202 | 162 | 202 | 162 | 202 | 162 | 202 |
| | | 19 | 2 | 3.9 | 150 | 120 | 150 | 120 | 150 | 120 | 150 |
| | | 20 | 1 | 2.2 | 84 | 67 | 84 | 67 | 84 | 67 | 84 |
| | | 144 | 112.7 | 4307 | 3443 | 4305 | 3442 | 4304 | 3441 | 4294 | 3433 |
| | | MEAN DIA. 12.0 INCHES. WEIBULL PARAMETERS A= .0, B= 12.71, C= 3.70 | | | | | | | | | |

SI 60

300 trees per acre

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | | 4 -inch class and greater to o.b. tops of— | | | | | |
|------|-----------------------|-----------------------|----------------------|---------------|---|---|--|------|----------|------|----------|-----|
| | | | | | 0. b. | I. b. | 2 inches | | 3 inches | | 4 inches | |
| Yrs | Ft | In | No. | Ft 2 | Ft 3 | | | | | | | |
| 15 | 35 | 1 | 9 | .0 | 0 | 0 | | | | | | |
| | | 2 | 29 | .6 | 0 | 0 | | | | | | |
| | | 3 | 52 | 2.5 | 0 | 0 | | | | | | |
| | | 4 | 64 | 5.5 | 73 | 29 | 69 | 26 | 61 | 19 | 44 | 6 |
| | | 5 | 63 | 8.5 | 166 | 98 | 161 | 95 | 149 | 87 | 126 | 73 |
| | | 6 | 45 | 8.7 | 200 | 131 | 195 | 128 | 184 | 122 | 163 | 109 |
| | | 7 | 24 | 6.3 | 159 | 108 | 156 | 106 | 148 | 103 | 133 | 95 |
| | | 8 | 10 | 3.5 | 91 | 63 | 89 | 62 | 86 | 60 | 78 | 57 |
| | | 9 | 3 | 1.3 | 36 | 25 | 35 | 25 | 33 | 24 | 30 | 23 |
| | | 10 | 1 | .5 | 15 | II | 15 | 11 | 14 | II | 13 | 10 |
| | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | 300 | 37.6 | 740 | 465 | 720 | 453 | 675 | 426 | 587 | 373 | |
| | | MEAN DIA. 4.8 INCHES. | | | | WEIBULL PARAMETERS A = .0, B = 5.03, C = 2.87 | | | | | | |
| 2049 | 1 | 1 | .0 | 0 | 0 | 0 | | | | | | |
| | 2 | 6 | .1 | 0 | 0 | 0 | | | | | | |
| | 3 | 16 | .8 | 0 | 0 | 0 | | | | | | |
| | 4 | 31 | 2.7 | 35 | 13 | 33 | 11 | 27 | 8 | 16 | 0 | |
| | 5 | 47 | 6.4 | 131 | 7 9 | 127 | 75 | 118 | 67 | 99 | so | |
| | 6 | 58 | 11.4 | 277 | 185 | 272 | 181 | 259 | 171 | 235 | 152 | |
| | 7 | 53 | 14.2 | 379 | 265 | 373 | 261 | 360 | 253 | 335 | 236 | |
| | 8 | 39 | 13.7 | 384 | 275 | 380 | 273 | 369 | 267 | 349 | 256 | |
| | 9 | 21 | 9.3 | 272 | 197 | 269 | 1% | 263 | 193 | 251 | 187 | |
| | 10 | 8 | 4.4 | 131 | 97 | 130 | 97 | 127 | 95 | 122 | 93 | |
| | 11 | 2 | 1.3 | 40 | 30 | 40 | 30 | 39 | 30 | 38 | 29 | |
| | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 282 | 64.4 | 1649 | 1141 | 1624 | 1124 | 1562 | 1084 | 1445 | 1003 | | |
| | MEAN DIA. 6.5 INCHES. | | | | WEIBULL PARAMETERS A = .0, B = 6.66, C = 3.65 | | | | | | | |
| 25 | 60 | 2 | .2 | .0 | 0 | 0 | | | | | | |
| | 3 | 7 | .3 | .4 | 1 | | | | | | | |
| | 4 | 15 | 1.3 | 28 | 17 | 27 | 16 | 25 | 14 | 20 | 9 | |
| | 5 | 26 | 3.5 | 90 | 62 | 88 | 60 | 84 | 57 | 76 | 49 | |
| | 6 | 37 | 7.3 | 203 | 144 | 200 | 142 | 194 | 136 | 182 | 126 | |
| | 7 | 45 | 12.0 | 353 | 256 | 350 | 253 | 342 | 248 | 327 | 236 | |
| | 8 | 46 | 16.0 | 487 | 357 | 484 | 355 | 475 | 349 | 459 | 337 | |
| | 9 | 37 | 16.3 | 506 | 374 | 503 | 372 | 4 % | 368 | 462 | 359 | |
| | 10 | 24 | 13.1 | 411 | 307 | 409 | 306 | 404 | 303 | 3 % | 297 | |
| | 11 | 11 | 7.2 | 231 | 172 | 230 | 172 | 227 | 170 | 222 | 166 | |
| | 12? | 4 | 3.1 | 101 | 76 | 101 | 76 | 100 | 75 | 98 | 74 | |
| | 13 | 1 | .9 | 30 | 22 | 30 | 22 | 29 | 22 | 28 | 22 | |
| | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 255 | 81.2 | 2444 | 1788 | 2422 | 1774 | 2376 | 1742 | 2289 | 1677 | | |
| | MEAN DIA. 7.6 INCHES. | | | | WEIBULL PARAMETERS A = .0, B = 8.11, C = 3.89 | | | | | | | |
| 30 | 69 | 2 | 1 | .0 | 1 | 1 | | | | | | |
| | 3 | 4 | .2 | .7 | 7 | 5 | | | | | | |
| | 4 | 6 | .7 | 24 | 18 | 24 | 18 | 23 | 17 | 21 | 15 | |
| | 5 | 15 | 2.0 | 68 | 51 | 67 | 51 | 66 | 49 | 63 | 47 | |
| | 6 | 23 | 4.5 | 150 | 115 | 149 | 114 | 147 | 112 | 142 | 107 | |
| | a | 30 | 8.0 | 267 | 203 | 266 | 202 | 262 | 199 | 256 | 194 | |
| | 8 | 35 | 12.2 | 407 | 309 | 405 | 308 | 402 | 305 | 394 | 299 | |
| | 9 | 36 | 151.6 | 529 | 403 | 528 | 402 | 524 | 399 | 517 | 393 | |
| | 10 | 32 | 17.1 | 581 | 442 | 560 | 441 | 576 | 439 | 569 | 434 | |
| | 11 | 23 | 15.1 | 506 | 385 | 505 | 384 | 502 | 382 | 497 | 379 | |
| | 12 | 14 | 11.0 | 366 | 279 | 365 | 279 | 364 | 278 | 361 | 276 | |
| | 13 | 7 | 6.4 | 215 | 163 | 215 | 163 | 214 | 163 | 212 | 162 | |
| | 14 | 3 | 3.2 | 107 | 82 | 107 | 62 | 107 | 82 | 106 | 81 | |
| | 15 | 1 | 1.2 | CO | 31 | 40 | 31 | 40 | 31 | 40 | 31 | |
| | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 232 | 97.7 | 3268 | 2407 | 3251 | 2475 | 3227 | 2456 | 3178 | 2418 | | |
| | MEAN DIA. 6.6 INCHES. | | | | WEIBULL PARAMETERS A = .0, B = 9.33, C = 3.88 | | | | | | | |

| Age | Av. dorm. ht. | D.b.h. | Stems per acre | Basal area | All trees total stem | 4 -inch class and greater to o.b. tops of— | | |
|---|---------------------|--------|----------------------|---------------|-------------------------|--|-----------------------|-----------------------|
| | | | | | | 2 inches | 3 inches | 4 inches |
| Yrs | Ft | In | No. | Ft 2 | | Ft 3 | | |
| 35 | 77 | 2 | 1 | .0 | I I | | | |
| | | 3 | 2 | .1 | 3 2 | | | |
| | | 4 | 5 | .4 | 16 12 | 16 12 | 16 12 | 15 II |
| | | 5 | 9 | 1.2 | 44 35 | 44 35 | 43 34 | 42 32 |
| | | 6 | 14 | 2.7 | 99 n | 99 77 | 76 96 | 74 |
| | | 7 | 19 | 5.1 | 182 143 | 162 143 | 180 141 | 176 139 |
| | | 8 | 24 | a.4 | 302 236 | 301 235 | 299 234 | 295 231 |
| | | 9 | 27 | 11.9 | 429 335 | 420 334 | 426 332 | 422 329 |
| | | 10 | 20 | 15.2 | 549 430 | 540 429 | 546 427 | 542 424 |
| | | 11 | 26 | 17.1 | 617 402 | 616 481 | 614 480 | 611 477 |
| | | 12 | 22 | 17.3 | 622 466 | 621 485 | 619 464 | 616 462 |
| | | 13 | 16 | 14.7 | 530 414 | 530 414 | 520 413 | 526 412 |
| | | 14 | 10 | 10.7 | 365 300 | 385 300 | 364 300 | 362 299 |
| | | 15 | 6 | 7.4 | 264 207 | 264 207 | 264 207 | 263 206 |
| | | 16 | 3 | 4.2 | 150 117 | 150 117 | 150 117 | 150 118 |
| | | 17 | 1 | 1.6 | 57 45 | 57 45 | 57 45 | 56 44 |
| | | 213 | 116.0 | 4250 | 3322 | 4241 3314 | 4224 3302 | 4194 3276 |
| MEAN DIA. 10.1 INCHES. WEIBULL PARAMETERS A= .0. B= 10.70. C= 3.74 | | | | | | | | |
| 40 | 84 | 2 | 1 | .0 | I I | | | |
| | | 3 | 2 | .1 | 3 2 | | | |
| | | 4 | 3 | .3 | 10 8 | 10 8 | 10 8 | 9 7 |
| | | 5 | 6 | .8 | 32 25 | 32 25 | 31 24 | 29 23 |
| | | 6 | 9 | 1.8 | 60 54 | 66 54 | 66 53 | 64 51 |
| | | 7 | 12 | 3.2 | 122 97 | 122 97 | 120 96 | 116 94 |
| | | 8 | 15 | 5.2 | 199 159 | 199 156 | 197 157 | 195 155 |
| | | 9 | 18 | 8.4 | 319 254 | 318 253 | 316 252 | 313 249 |
| | | 10 | 21 | 11.4 | 435 346 | 434 345 | 433 344 | 430 342 |
| | | 11 | 19 | 12.5 | 476 380 | 475 380 | 474 378 | 471 376 |
| | | 12 | 22 | 17.3 | 656 523 | 655 522 | 654 521 | 651 518 |
| | | 13 | 20 | 16.4 | 700 556 | 699 556 | 697 557 | 694 555 |
| | | 14 | 16 | 17.1 | 650 516 | 650 518 | 646 517 | 646 515 |
| | | 15 | 13 | 15.9 | 606 463 | 606 463 | 605 462 | 603 461 |
| | | 16 | 9 | 12.6 | 477 300 | 477 380 | 476 380 | 475 379 |
| | | 17 | 6 | 9.5 | 359 286 | 359 266 | 356 286 | 351 266 |
| | | 18 | 3 | 5.3 | 202 160 | 202 160 | 202 160 | 201 161 |
| | | 19 | 2 | 3.9 | 150 119 | 150 119 | 150 119 | 149 120 |
| | | 20 | 1 | 2.2 | 63 66 | 83 66 | 63 66 | 02 66 |
| | | 199 | 146.0 | 5546 | 4419 | 5539 4412 | 5520 4400 | 5407 4370 |
| MEAN DIA. 11.6 INCHES. WEIBULL PARAMETERS A= .0. B= 12.29. C= 3.55 | | | | | | | | |

SI 60

400 trees per acre

| Age | Av. dom. ht. | D.b.h Ft | Stems per acre | Basal area | All trees total stem | | 4 -inch class and greater to o.b. tops of— | | | | | |
|------------|--------------------|-------------|----------------------|--|--|-------|--|-------|-------|-------|-------------|------|
| | | | | | 0. b. | 1. b. | 0. b. | I. b. | O. b. | I. b. | 0. b. I. b. | |
| Yrs | | In | No. | Ft 2 | | | | | | | | |
| IS | 35 | 1 | 20 | .1 | 0 | 0 | | | | | | |
| | | a | 52 | 1.1 | 0 | 0 | | | | | | |
| | | 3 | 80 | 3.9 | 14 | 0 | | | | | | |
| | | 4 | 88 | 7.6 | 115 | 57 | 110 | 53 | 99 | 44 | 7 | 27 |
| | | 5 | 75 | 10.1 | 209 | 129 | 203 | 126 | 190 | 116 | 163 | 97 |
| | | 6 | 48 | 9.3 | 220 | 146 | 215 | 143 | 204 | 136 | 181 | 122 |
| | | 7 | 24 | 6.3 | 161 | 110 | 158 | 106 | 150 | 104 | 135 | 96 |
| | | 6 | 9 | 3.1 | 83 | 58 | 81 | 67 | 79 | 70 | 70 | 51 |
| | | 9 | 3 | 1.3 | 36 | 25 | 35 | 25 | 34 | 24 | 31 | 23 |
| | | 10 | 1 | .5 | 16 | 10 | 16 | 10 | 14 | 10 | 13 | 10 |
| | | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| | | | 400 | 43.4 | 653 | 535 | 617 | 521 | 769 | 489 | 670 | 426 |
| | | | MEAN DIA. | 4 . S | INCHES. WEIBULL PARAMETERS A= .0 . B= 4.64 . C= 2.61 | | | | | | | |
| 20 | 49 | 1 | 2 | .0 | 0 | 0 | | | | | | |
| | | 2 | 11 | .2 | 0 | 0 | | | | | | |
| | | 3 | 28 | 1.4 | 1 | 0 | | | | | | |
| | | 4 | 50 | 4.4 | 65 | 29 | 61 | 25 | 52 | 17 | 34 | 0 |
| | | 5 | 68 | 9.3 | 199 | 123 | 193 | 116 | 180 | 106 | 153 | 63 |
| | | 6 | 17 | 15.1 | 378 | 256 | 371 | 251 | 354 | 238 | 320 | 213 |
| | | 7 | 64 | 17.1 | 465 | 327 | 458 | 323 | 442 | 312 | 410 | 292 |
| | | 6 | 42 | 14.7 | 419 | 301 | 414 | 298 | 402 | 292 | 378 | 280 |
| | | 9 | 21 | 9.3 | 274 | 199 | 271 | 198 | 264 | 195 | 251 | 190 |
| | | 10 | 7 | 3.6 | 115 | 85 | 114 | 85 | 112 | 84 | 107 | 82 |
| | | 11 | 2 | 1.3 | 40 | 30 | 40 | 30 | 39 | 30 | 38 | 29 |
| | | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| | | | 372. | 76.6 | 19% | 1350 | 1922 | 1328 | 1845 | 1274 | 1691 | 1169 |
| | | | MEAN DIA. | 6.1 INCHES. WEIBULL PARAMETERS A= .0 , B= 6.51 , C= 3.42 | | | | | | | | |
| 25 | 60 | 1 | 1 | .0 | 0 | 0 | | | | | | |
| | | 2 | 4 | .1 | 0 | 0 | | | | | | |
| | | 3 | 12 | .6 | 7 | 2 | | | | | | |
| | | 4 | 24 | 2.1 | 46 | 28 | 44 | 26 | 40 | 22 | 31 | 14 |
| | | 5 | 39 | 3.3 | 139 | 95 | 135 | 92 | 128 | 66 | 114 | 74 |
| | | 6 | 53 | 10.4 | 293 | 209 | 289 | 206 | 279 | 197 | 260 | 161 |
| | | 7 | 59 | 15.0 | 466 | 339 | 461 | 335 | 450 | 326 | 429 | 309 |
| | | 8 | 11 | 19.2 | 565 | 430 | 580 | 427 | 569 | 419 | 548 | 464 |
| | | 9 | 42 | 16.5 | 576 | 428 | 572 | 426 | 564 | 420 | 647 | 409 |
| | | 10 | 25 | 13.6 | 430 | 320 | 428 | 319 | 422 | 315 | 411 | 309 |
| | | 11 | 11 | 7.3 | 231 | 173 | 230 | 172 | 227 | 171 | 222 | 169 |
| | | 12 | 4 | 3.1 | 101 | 76 | 101 | 76 | 100 | 76 | 98 | 75 |
| | | 13 | 1 | .9 | 30 | 22 | 30 | 22 | 29 | 22 | 28 | 22 |
| | | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| | | | 330 | 96.9 | 2903 | 2122 | 2970 | 2101 | 2808 | 2054 | 2688 | 1966 |
| | | | MEAN DIA. | 7.3 INCHES. WEIBULL PARAMETERS A= .0 , B= 7.76 , C= 3.69 | | | | | | | | |

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | | 4-inch class and greater to o.b. tops of— | | | | | |
|-----|--------------------|--------|----------------------|---------------|--------------------------|--------------|---|--------|-----------|---------|----------|------|
| | | | | | 0. b. | 1. b. | 2 inches | | 3 inches | | 4 inches | |
| Yrs | Ft | In | No. | Ft 2 | | | Ft 3 | | | | | |
| 30 | 69 | 2 | 2 | .0 | 1 | 1 | | | | | | |
| | | 3 | 6 | .3 | 10 | 7 | | | | | | |
| | | 4 | 13 | 1.1 | 36 | 26 | 35 | 27 | 34 | 25 | 31 | 22 |
| | | 5 | 22 | 3.0 | 98 | 74 | 97 | 73 | 94 | 71 | 88 | 66 |
| | | 6 | 32 | 6.2 | 207 | 156 | 205 | 155 | 201 | 151 | 192 | 145 |
| | | 7 | 41 | 10.9 | 361 | 274 | 359 | 272 | 353 | 268 | 343 | 259 |
| | | 8 | 45 | 15.6 | 519 | 394 | 517 | 392 | 511 | 367 | 499 | 377 |
| | | 9 | 45 | 19.7 | 6% | 499 | 6% | 497 | 649 | 492 | 636 | 483 |
| | | 10 | 37 | 20.0 | 668 | 507 | 666 | 506 | 660 | 502 | 650 | 495 |
| | | 11 | 26 | 17.0 | 568 | 431 | 566 | 430 | 563 | 428 | 556 | 424 |
| | | 12 | 15 | 11.7 | 390 | 297 | 389 | 296 | 387 | 295 | 363 | 292 |
| | | 13 | 7 | 6.4 | 214 | 162 | 214 | 162 | 212 | 162 | 210 | 161 |
| | | 14 | 3 | 3.2 | 106 | 61 | 106 | 61 | 106 | 61 | 105 | 60 |
| | | 15 | 1 | 1.2 | 40 | 31 | 4 | 0 | 31 | 31 | 40 | 30 |
| | | | | | 295 | 116.4 | 3876 | 2942 | 3849 | 2922 | 3810 | 2893 |
| | | | | | MEAN DIA. | 8.5 INCHES. | WEIBULL PARAMETERS | A= .0. | B= 9.03. | C= 3.72 | 3733 | 2834 |
| A | n | 2 | 1 | .0 | 1 | 1 | | | | | | |
| | | 3 | 4 | .2 | 7 | 6 | | | | | | |
| | | 4 | 7 | .6 | 22 | 17 | 22 | 17 | 21 | 16 | 19 | 15 |
| | | 5 | 13 | 1.6 | 64 | 50 | 63 | 49 | 61 | 48 | 58 | 45 |
| | | 6 | 19 | 3.7 | 134 | 104 | 133 | 103 | 131 | 101 | 126 | 97 |
| | | 7 | 26 | 6.9 | 248 | 194 | 247 | 193 | 244 | 190 | 239 | 185 |
| | | 8 | 31 | 10.6 | 387 | 303 | 386 | 302 | 382 | 299 | 376 | 293 |
| | | 9 | A | IS.4 | 553 | 431 | 551 | 430 | 548 | 427 | 540 | 421 |
| | | 10 | 35 | 19.0 | 683 | 533 | 681 | 532 | 677 | 529 | 669 | 523 |
| | | 11 | 31 | 20.4 | 731 | 571 | 730 | 570 | 726 | 568 | 720 | 563 |
| | | 12 | 25 | 19.6 | 702 | 548 | 701 | 547 | 698 | 545 | 693 | 541 |
| | | 13 | 18 | 16.5 | 594 | 463 | 593 | 462 | 591 | 461 | 567 | 459 |
| | | 14 | II | 11.7 | 421 | 328 | 420 | 328 | 419 | 327 | 417 | 326 |
| | | 15 | 6 | 7.3 | 263 | 205 | 263 | 205 | 262 | 205 | 261 | 204 |
| | | 16 | 3 | 4.2 | 149 | 116 | 149 | 116 | 149 | 116 | 149 | 116 |
| | | 17 | 1 | 1.6 | 56 | 44 | 56 | 44 | 56 | 44 | 56 | 44 |
| | | | | | 266 | 139.6 | 5015 | 3914 | 4995 | 3898 | 4965 | 3676 |
| | | | | | MEAN DIA. | 9.8 INCHES. | WEIBULL PARAMETERS | A= .0. | B= 10.41. | C= 3.62 | 4910 | 3832 |
| 40 | 40 | 2 | 1 | .0 | 1 | 1 | | | | | | |
| | | 3 | 2 | .1 | 3 | 2 | | | | | | |
| | | 4 | 5 | .4 | 17 | 13 | 17 | 13 | 16 | 12 | 14 | II |
| | | 5 | 8 | 1.1 | 42 | 32 | 41 | 32 | 40 | 31 | 37 | 29 |
| | | 6 | 12 | 2.4 | 90 | 71 | 89 | 70 | 87 | 68 | 83 | 65 |
| | | 7 | 16 | 4.3 | 162 | 130 | 161 | 129 | 159 | 126 | 154 | 121 |
| | | 6 | 20 | 7.0 | 266 | 211 | 265 | 210 | 261 | 207 | 2 % | 201 |
| | | 9 | 24 | 10.6 | 403 | 321 | 401 | 320 | 398 | 316 | 390 | 310 |
| | | 10 | 26 | 14.2 | 538 | 429 | 536 | 428 | 533 | 424 | 525 | 417 |
| | | 11 | 26 | 17.2 | 652 | 519 | 650 | 518 | 647 | 514 | 639 | 508 |
| | | 12 | 26 | 20.4 | 776 | 617 | 774 | 616 | n o | 613 | 762 | 607 |
| | | 13 | 23 | 21.3 | 805 | 641 | 804 | 640 | 800 | 638 | 793 | 633 |
| | | 14 | 19 | 20.4 | 771 | 614 | n o | 613 | 767 | 611 | 762 | 607 |
| | | 15 | 14 | 17.2 | 652 | 520 | 651 | 519 | 649 | 518 | 646 | 515 |
| | | 16 | 10 | 14.0 | 530 | 421 | 529 | 421 | 528 | 421 | 525 | 420 |
| | | 17 | 6 | 9.5 | 359 | 286 | 359 | 286 | 3 % | 265 | 358 | 284 |
| | | 18 | 3 | 6.3 | 201 | 160 | 201 | 160 | 200 | 160 | 199 | 160 |
| | | 19 | 2 | 3.9 | 150 | 119 | 150 | 119 | 150 | 119 | 149 | 119 |
| | | 20 | 1 | 2.2 | 63 | 66 | 63 | 66 | 63 | 66 | 62 | 65 |
| | | | | | 244 | 171.7 | 6501 | 5173 | 6481 | 5160 | 6446 | 5129 |
| | | | | | MEAN DIA. | II.4 INCHES. | WEIBULL PARAMETERS | A= .0. | B= 12.03. | C= 3.46 | 6371 | 5072 |

SI 60

500 trees per acre

| Age | Av. dom. ht. | D.b.h | Stems per acre | Basal area | All trees, total stem | 4 -inch class and greater to o.b. tops of- | | | |
|-----|--------------------|-----------|----------------------|--------------------|--------------------------|--|-----------|-----------|------|
| | | | | | | 2 inches | | 3 inches | |
| Yrs | Ft | In | No. | Ft 2 | | | Ft 3 | | |
| 1s | 35 | 1 | 37 | .2 | 0 | 0 | | | |
| | | 2 | 79 | 1.7 | 0 | 0 | | | |
| | | 3 | 108 | 5.3 | 34 | 0 | | | |
| | | 4 | 108 | 9.4 | 156 | 84 | 150 | 80 | 137 |
| | | 5 | 83 | 11.2 | 242 | 154 | 236 | 150 | 221 |
| | | 6 | 50 | 9.8 | 235 | 159 | 230 | 155 | 218 |
| | | 7 | 23 | 6.1 | 156 | 109 | 153 | 107 | 146 |
| | | 8 | 9 | 3.1 | 83 | 59 | 82 | 57 | 78 |
| | | 9 | 2 | .9 | 24 | 17 | 24 | 17 | 23 |
| | | 10 | 1 | .5 | 15 | 10 | 15 | 10 | 14 |
| | | M O | 48.2 | 945 | 591 | 990 | 576 | 837 | 538 |
| | | MEAN DIA. | 4.2 INCHES. | WEIBULL PARAMETERS | A = .0. | a = 4.34, | C = 2.92 | | |
| 20 | 49 | 1 | 5 | .0 | 0 | 0 | | | |
| | | 2 | 19 | .4 | 0 | 0 | | | |
| | | 3 | 42 | 2.1 | 6 | 0 | | | |
| | | 4 | 70 | 6.1 | 99 | 48 | 93 | 53 | 80 |
| | | 5 | 09 | 12.1 | 269 | 170 | 261 | 164 | 243 |
| | | 6 | 89 | 17.5 | 445 | 304 | 436 | 298 | 415 |
| | | 7 | 72 | 19.2 | 528 | 374 | 520 | 369 | 501 |
| | | 8 | 44 | 15.4 | 442 | 316 | 436 | 315 | 423 |
| | | 9 | 21 | 9.3 | 275 | 201 | 272 | 200 | 265 |
| | | 10 | 7 | 3.8 | 115 | 95 | 114 | 84 | 111 |
| | | 11 | 2 | 1.3 | 40 | 30 | 40 | 30 | 39 |
| | | M O | 460 | 87.2 | 2219 | 1530 | 2172 | 1503 | 2077 |
| | | MEAN DIA. | S.9 | INCHES. | WEIBULL PARAMETERS | A = .0. | B = 6.23. | C = 3.2'1 | |
| 25 | 60 | 1 | 1 | .0 | 0 | 0 | | | |
| | | 2 | 7 | .2 | 0 | 0 | | | |
| | | 3 | 18 | .9 | 12 | 4 | | | |
| | | 4 | 34 | 3.0 | 85 | 41 | 52 | 38 | 57 |
| | | 5 | 52 | 7.1 | 185 | 128 | 181 | 124 | 171 |
| | | 6 | 67 | 13.1 | 372 | 265 | 366 | 260 | 353 |
| | | 7 | 72 | 19.2 | 570 | 415 | 564 | 410 | 548 |
| | | 8 | 63 | 21.9 | 670 | 494 | 664 | 490 | 651 |
| | | 9 | 45 | 19.9 | 618 | 459 | 614 | 456 | 603 |
| | | 10 | 26 | 14.1 | 446 | 333 | 443 | 332 | 43-1 |
| | | 11 | 11 | 7.2 | 231 | 173 | 230 | 172 | 227 |
| | | 12 | 4 | 3.1 | 101 | 75 | 101 | 75 | 99 |
| | | 13 | 1 | .9 | 30 | 22 | 30 | 22 | 29 |
| | | M O | 401 | 110.5 | 3300 | 2409 | 3255 | 2379 | 3175 |
| | | MEAN DIA. | 7.1 | INCHES. | WEIBULL PARAMETERS | A = .0. | B = 7.53. | C = 3.5'4 | |
| | | | | | | | | | |

| Age | Av. dom. ht. | D.b.h. per acre | Basal a | All total r | trees stem a | 4 -inch class and greater to o.b. tops of— | | | | | |
|-----|--------------------|--|------------|-------------------|--------------------|--|-------|----------|-------|----------|-------|
| | | | | | | 2 inches | | 3 inches | | 4 inches | |
| | | | | | | 0. b. | I. b. | 0. b. | I. 4. | O. b. | I. b. |
| Yrs | Ft | In | No. | Ft 2 | | Ft 3 | | | | | |
| 30 | 69 | 1 | 1 | .0 | 0 | 0 | | | | | |
| | | 2 | 3 | .1 | 2 | 1 | | | | | |
| | | 3 | 9 | .4 | 14 | 10 | | | | | |
| | | 4 | 17 | 1.5 | 46 | 36 | 47 | 35 | 45 | 33 | 40 |
| | | 5 | 29 | 4.0 | 130 | 98 | 128 | 96 | 124 | 92 | 115 |
| | | | | | | | | | | | |
| | | 6 | 41 | 8.1 | 266 | 201 | 263 | 199 | 257 | 193 | 244 |
| | | 7 | 51 | 13.6 | 452 | 342 | 449 | 339 | 441 | 332 | 425 |
| | | 8 | 55 | 19.2 | 637 | 464 | 633 | 481 | 625 | 474 | 608 |
| | | 9 | 51 | 22.6 | 750 | 569 | 746 | 566 | 736 | 560 | 721 |
| | | 10 | 41 | 22.4 | 745 | 566 | 742 | 564 | 735 | 559 | 721 |
| | | | | | | | | | | | |
| | | 11 | 28 | 18.5 | 616 | 468 | 614 | 467 | 609 | 464 | 600 |
| | | 12 | 15 | 11.8 | 393 | 298 | 392 | 297 | 389 | 296 | 394 |
| | | 13 | 7 | 6.5 | 215 | 164 | 214 | 164 | 213 | 163 | 211 |
| | | 14 | 2 | 2.1 | 71 | 55 | 71 | 55 | 71 | 55 | 70 |
| | | 15 | 1 | 1.2 | 41 | 31 | 41 | 31 | 41 | 31 | 41 |
| | | | | | | | | | | | |
| | | 351 | 131.9 | 4380 | 3323 | 4340 | 3294 | 4288 | 3252 | 4180 | 3166 |
| | | | | | | | | | | | |
| | | MEAN DIA. 8.3 INCHES. WEIBULL PARAMETERS A= .0. B= 8.80, C= 3.60 | | | | | | | | | |
| 35 | 77 | 2 | 2 | .0 | 1 | 1 | | | | | |
| | | 3 | 5 | .2 | 8 | 7 | | | | | |
| | | 4 | 10 | .9 | 31 | 24 | 31 | 23 | 29 | 22 | 27 |
| | | 5 | 16 | 2.2 | 79 | 61 | 76 | 60 | 75 | 58 | 70 |
| | | 6 | 24 | 4.7 | 169 | 132 | 168 | 131 | 164 | 127 | 157 |
| | | | | | | | | | | | |
| | | 7 | 32 | 8.6 | 307 | 236 | 305 | 236 | 300 | 232 | 290 |
| | | 8 | 38 | 13.3 | 474 | 370 | 472 | 368 | 466 | 363 | 456 |
| | | 9 | 42 | 18.6 | 664 | 517 | 661 | 515 | 655 | 510 | 643 |
| | | 10 | 40 | 21.0 | 781 | 609 | 779 | 606 | 773 | 602 | 761 |
| | | 11 | 35 | 23.1 | 826 | 645 | 824 | 643 | 818 | 640 | 808 |
| | | | | | | | | | | | |
| | | 12 | 28 | 22.0 | 787 | 614 | 765 | 613 | 781 | 610 | 772 |
| | | 13 | 19 | 17.5 | 627 | 499 | 626 | 488 | 623 | 466 | 617 |
| | | 14 | 11 | 11.0 | 421 | 328 | 420 | 328 | 418 | 327 | 415 |
| | | 15 | 6 | 7.4 | 263 | 205 | 263 | 205 | 262 | 205 | 260 |
| | | 16 | 3 | 4.2 | 150 | 116 | 150 | 116 | 150 | 116 | 149 |
| | | 17 | 1 | 1.6 | 56 | 44 | 56 | 44 | 56 | 44 | 56 |
| | | | | | | | | m m | | | |
| | | 312 | 157.0 | 5644 | 4399 | 5618 | 4376 | 5570 | 4342 | 5481 | 4271 |
| | | | | | | | | | | | |
| | | MEAN DIA. 9.6 INCHES. WEIBULL PARAMETERS A= .0. B= 10.21, C= 3.53 | | | | | | | | | |
| 40 | 84 | 2 | 1 | .0 | 1 | 1 | | | | | |
| | | 3 | 3 | .1 | 6 | 5 | | | | | |
| | | 4 | 6 | .5 | 20 | 15 | 20 | 15 | 18 | 13 | I6 |
| | | 5 | 10 | 1.4 | 51 | 40 | 50 | 39 | 48 | 37 | 44 |
| | | 6 | 14 | 2.7 | 104 | 62 | 103 | 81 | 99 | 78 | 93 |
| | | | | | | | | | | | |
| | | 7 | 19 | 5.1 | 191 | 152 | 189 | 150 | 186 | 146 | 178 |
| | | 8 | 24 | 8.4 | 316 | 251 | 314 | 249 | 308 | 244 | 297 |
| | | 9 | 28 | 12.3 | 466 | 371 | 463 | 369 | 457 | 363 | 445 |
| | | 10 | 31 | 16.9 | 637 | 507 | 634 | so4 | 627 | 499 | 614 |
| | | 11 | 32 | 24.1 | 7 % | 633 | 793 | 631 | 786 | 625 | n 3 |
| | | | | | | | | | | | |
| | | 12 | 29 | 22.7 | 858 | 682 | 956 | 680 | 650 | 675 | 838 |
| | | 13 | 26 | 23.9 | 903 | 718 | 901 | 716 | 695 | 713 | 885 |
| | | 14 | 21 | 22.4 | 846 | 673 | 844 | 672 | 640 | 669 | 831 |
| | | 15 | 15 | 18.4 | 694 | 551 | 693 | 550 | 689 | 548 | 683 |
| | | 16 | 10 | 13.9 | 526 | 418 | 525 | 418 | 523 | 417 | 519 |
| | | | | | | | | | | | |
| | | 17 | 6 | 9.4 | 357 | 293 | 356 | 263 | 355 | 263 | 352 |
| | | 18 | 4 | 7.1 | 266 | 212 | 266 | 212 | 265 | 212 | 264 |
| | | 19 | 2 | 3.9 | 149 | 118 | 149 | 118 | 148 | 118 | 147 |
| | | 20 | 1 | 2.2 | 83 | 65 | 83 | 65 | 83 | 65 | 65 |
| | | | | | | | | | | | |
| | | 202 | 192.5 | 7270 | 5777 | 7239 | 5752 | 7177 | 5705 | 7061 | 5613 |
| | | | | | | | | | | | |
| | | MEAN DIA. 11.2 INCHES. WEIBULL PARAMETERS A= .0. a= 11.84. c= 3.39 | | | | | | | | | |

SI 60

600 trees per acre

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees 1 4 -inch class and greater to o.b. tops of— | | | | | | | | |
|-----|--------------------|--|----------------------|---------------|--|-------|----------|-------|----------|-------|----------|-------|------|
| | | | | | total stem | | 2 inches | | 3 inches | | 4 inches | | |
| Yrs | Ft | In | No. | Ft 2 | 0. b. | I. b. | 0. b. | I. b. | O. b. | I. b. | 0. b. | I. b. | |
| IS | 35 | 1 | 59 | .3 | 0 | 0 | | | | | | | |
| | | 2 | 109 | 2.4 | 0 | 0 | | | | | | | |
| | | 3 | 136 | 6.7 | 57 | 7 | | | | | | | |
| | | 4 | 124 | 10.6 | 192 | 109 | 1 % | 104 | 171 | 92 | 142 | 69 | |
| | | 5 | 88 | 12.0 | 264 | 171 | 258 | 166 | 243 | 155 | 215 | 134 | |
| | | 6 | 50 | 9.8 | 239 | 162 | 234 | 159 | 223 | 151 | 202 | 135 | |
| | | 7 | 23 | 6.1 | 158 | 110 | 155 | 108 | 149 | 104 | 136 | 95 | |
| | | 8 | 8 | 2.8 | 75 | 53 | 74 | 52 | 70 | 50 | 64 | 45 | |
| | | 9 | 2 | .9 | 24 | 17 | 24 | 17 | 23 | 16 | 21 | 15 | |
| | | 10 | 1 | .5 | 15 | 11 | 15 | 11 | 14 | 10 | 13 | 9 | |
| | | | | 600 | 52.3 | 1024 | 640 | 946 | 617 | 693 | 578 | 763 | 502 |
| | | MEAN DIA. 4.0 INCHES. WEIBULL PARAMETERS A= .0. B= 4.09. C= 2.26 | | | | | | | | | | | |
| 120 | 49 | 1 | 7 | .0 | 0 | 0 | | | | | | | |
| | | 2 | 27 | .6 | 0 | 0 | | | | | | | |
| | | 3 | 58 | 2.8 | 14 | 0 | | | | | | | |
| | | 4 | 90 | 7.8 | 133 | 69 | 126 | 63 | 109 | 47 | 77 | 17 | |
| | | 5 | 108 | 14.6 | 334 | 215 | 324 | 207 | 302 | 188 | 258 | 152 | |
| | | 6 | 103 | 20.1 | 520 | 3 % | 510 | 351 | 485 | 333 | 437 | 2 % | |
| | | 7 | 78 | 26.7 | 574 | 408 | 565 | 403 | 544 | 389 | 503 | 364 | |
| | | 8 | 46 | 16.0 | 462 | 334 | 4 % | 331 | 441 | 323 | 413 | 306 | |
| | | 9 | 20 | 8.8 | 262 | 191 | 259 | 190 | 252 | 1 % | 238 | 160 | |
| | | 10 | 7 | 3.8 | 115 | 85 | 114 | 84 | 111 | 83 | 106 | 81 | |
| | | 11 | 2 | 1.3 | 41 | 30 | 41 | 30 | 39 | 30 | 37 | 29 | |
| | | | | 546 | 96.6 | 2455 | 1690 | 2395 | 1659 | 2263 | 1579 | 2069 | 1429 |
| | | MEAN DIA. 5.7 INCHES. WEIBULL PARAMETERS A= .0. B= 6.01. C= 3.11 | | | | | | | | | | | |
| 25 | 60 | 1 | 2 | .0 | 0 | 0 | | | | | | | |
| | | 2 | 10 | .2 | 0 | 0 | | | | | | | |
| | | 3 | 24 | 1.2 | 17 | 7 | | | | | | | |
| | | 4 | 44 | 3.8 | 86 | 55 | 63 | 52 | 74 | 43 | 58 | 27 | |
| | | 5 | 66 | 9.0 | 238 | 165 | 232 | 160 | 219 | 148 | 193 | 124 | |
| | | 6 | 81 | 15.9 | 454 | 325 | 447 | 319 | 430 | 305 | 397 | 277 | |
| | | 7 | 82 | 21.9 | 654 | 478 | 646 | 472 | 628 | 456 | 593 | 430 | |
| | | 8 | 70 | 24.4 | 749 | 553 | 742 | 548 | 726 | 537 | 694 | 515 | |
| | | 9 | 48 | 21.2 | 863 | 492 | 650 | 489 | 646 | 462 | 622 | 466 | |
| | | 10 | 26 | 14.2 | 449 | 335 | 446 | 333 | 439 | 330 | 426 | 322 | |
| | | 11 | 11 | 7.3 | 232 | 174 | 231 | 173 | 227 | 172 | 221 | 169 | |
| | | 12 | 3 | 2.4 | 75 | 57 | 76 | 57 | 75 | 57 | 73 | 56 | |
| | | 13 | 1 | .9 | 30 | 22 | 30 | 22 | 29 | 22 | 28 | 23 | |
| | | | | 466 | 122.5 | 3648 | 2663 | 3591 | 2625 | 3493 | 2554 | 3305 | 2411 |
| | | MEAN DIA. 6.9 INCHES. WEIBULL PARAMETERS A= .0. B= 7.34. C= 3.43 | | | | | | | | | | | |

| Age | Av. dom. ht. | D.b.h. per acre | Basal area | All trees | | 4-inch class and greater to o.b. tops of— | | | |
|-----|--------------------|--|---------------|--------------|------|--|----------|----------|-----------|
| | | | | total | stem | 2 inches | 3 inches | 4 inches | |
| Yrs | Ft | In | No. | Ft 2 | | | | | |
| 30 | 69 | 1 | 1 | .0 | 0 | 0 | | | |
| | | 2 | 4 | .1 | 2 | 2 | | | |
| | | 3 | 11 | .5 | 17 | 12 | | | |
| | | 4 | 22 | 1.9 | 61 | 46 | 59 | 44 | 48 34 |
| | | 5 | 36 | 4.9 | 159 | 120 | 156 | 118 | 138 100 |
| | | 6 | 50 | 9.8 | 322 | 243 | 318 | 240 | 292 216 |
| | | 7 | 60 | 16.0 | 529 | 400 | 524 | 396 | 492 369 |
| | | 8 | 62 | 21.6 | 715 | 542 | 710 | 536 | 677 512 |
| | | 9 | 57 | 25.1 | ear | 632 | 629 | 618 | 797 605 |
| | | 10 | 44 | 23.9 | 796 | 604 | 792 | 601 | 767 584 |
| | | 11 | 29 | 19. I | 636 | 462 | 634 | 481 | 616 471 |
| | | 12 | 16 | 12.5 | 418 | 317 | 417 | 316 | 407 311 |
| | | 13 | 7 | 6.4 | 215 | 163 | 214 | 163 | 210 161 |
| | | 14 | 2 | 2.1 | 71 | 54 | 71 | 54 | 70 53 |
| | | 15 | 1 | 1.2 | 41 | 31 | 41 | 31 | 40 31 |
| | | 402 | 145.3 | 4816 | 3646 | 4765 | 3611 | 4695 | 3556 4554 |
| | | MEAN DIA. 8.1 INCHES. WEIBULL PARAMETERS | | | | A = .0. B = 8.63. C = 3.52 | | | 3447 |
| 35 | 77 | 2 | 2 | .0 | 1 | 1 | | | |
| | | 3 | 6 | .3 | II | 8 | | | |
| | | 4 | 12 | 1.0 | 37 | 29 | 36 | 26 | 29 21 |
| | | 5 | 20 | 2.7 | 97 | 76 | 95 | 74 | 71 63 |
| | | 6 | 29 | 5.7 | 202 | 157 | 200 | 155 | 194 150 |
| | | 7 | 37 | 9.8 | 352 | 274 | 349 | 271 | 329 253 |
| | | 8 | 44 | 15.3 | 546 | 425 | 543 | 422 | 519 401 |
| | | 9 | 46 | 20.2 | 722 | 563 | 719 | 560 | 691 536 |
| | | 10 | 45 | 24.4 | 672 | 679 | 668 | 676 | 670 657 |
| | | 11 | 39 | 25.6 | 915 | 712 | 912 | 710 | 889 694 |
| | | 12 | 30 | 23.5 | 638 | 652 | 835 | 650 | 818 640 |
| | | 13 | 20 | 18.4 | 655 | 510 | 653 | 509 | 642 502 |
| | | 14 | 12 | 12.8 | 456 | 355 | 455 | 355 | 446 351 |
| | | 15 | 6 | 7.3 | 261 | 203 | 261 | 203 | 256 202 |
| | | 16 | 3 | 4.2 | 149 | 115 | 149 | 115 | 147 115 |
| | | 17 | 1 | 1.6 | 56 | 44 | 56 | 44 | 56 43 |
| | | 352 | 172.8 | 6170 | 4803 | 6131 | 4772 | 6068 | 4722 5940 |
| | | MEAN DIA. 9.5 INCHES. WEIBULL PARAMETERS | | | | A = .0. B = 10.05. C = 3.47 | | | 462 1 |
| CO | 84 | 2 | 1 | .0 | 1 | 1 | | | |
| | | 3 | 4 | .2 | 6 | 6 | | | |
| | | 4 | 7 | .6 | 23 | 18 | 22 | 17 | 20 15 |
| | | 5 | 12 | 1.6 | 61 | 49 | 60 | 48 | 56 44 |
| | | 6 | 17 | 3.3 | 126 | 100 | 124 | 90 | 119 93 |
| | | 7 | 22 | 5.9 | 221 | 176 | 219 | 173 | 201 155 |
| | | 6 | 20 | 9.7 | 368 | 292 | 365 | 289 | 341 267 |
| | | 9 | 32 | 14.1 | 532 | 422 | 528 | 419 | 502 396 |
| | | 10 | 34 | 18.5 | 697 | 554 | 693 | 551 | 665 527 |
| | | 11 | 33 | 21.7 | 819 | 650 | 815 | 647 | 787 625 |
| | | 12 | 32 | 25.1 | 945 | 751 | 941 | 748 | 914 727 |
| | | 13 | 28 | 25.7 | 970 | 771 | 967 | 769 | 945 753 |
| | | 14 | 22 | 23.5 | 884 | 702 | 881 | 700 | 863 689 |
| | | 15 | 16 | 19.6 | 736 | 586 | 736 | 565 | 724 570 |
| | | 16 | 11 | 15.3 | 577 | 459 | 576 | 456 | 568 453 |
| | | 17 | 7 | 11.0 | 415 | 330 | 414 | 330 | 408 327 |
| | | 18 | 4 | 7.0 | 265 | 211 | 265 | 211 | 262 210 |
| | | 19 | 2 | 3.9 | 148 | 117 | 148 | 117 | 146 117 |
| | | 20 | 1 | 2.2 | 62 | 65 | 62 | 65 | 81 65 |
| | | 313 | 209.0 | 7880 | 6260 | 7836 | 6225 | 7750 | 6155 7503 |
| | | MEAN DIA. 11.1 INCHES. WEIBULL PARAMETERS | | | | A = .0. B = 11.71. C = 3.35 | | | 6021 |

SI 70

100 trees per acre

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees total stem | 4-inch class and greater to o.b. tops of— | | | | | | |
|--|--------------------|--------|----------------------|---------------|----------------------------|---|-------|----------|-------|----------|-------|-------|
| | | | | | | 2 inches | | 3 inches | | 4 inches | | |
| Yrs | Ft | In | No. | Ft 2 | O. b. | I. b. | O. b. | I. b. | O. b. | I. b. | O. b. | I. b. |
| 15 | 41 | 2 | 1 | .0 | 0 | 0 | | | | | | |
| | | 3 | 3 | .1 | 0 | 0 | | | | | | |
| 4 | 8 | 7 | | | 3 | 0 | 3 | 0 | 2 | 0 | 0 | 0 |
| 5 | 15 | 2.0 | | | 30 | 12 | 29 | 11 | 26 | 9 | 21 | 5 |
| 6 | El | 4.1 | 83 | 48 | 81 | 47 | 78 | 44 | 71 | 38 | | |
| 7 | 23 | 6.2 | 145 | 93 | 143 | 92 | 139 | 89 | 131 | 63 | | |
| 8 | 17. | 5.9 | 154 | 103 | 152 | 102 | 149 | 100 | 141 | 96 | | |
| 9 | 9 | 4.0 | 109 | 76 | 108 | 76 | 106 | 74 | 102 | 72 | | |
| 10 | 3 | 1.6 | 46 | 32 | 46 | 32 | 45 | 32 | 44 | 32 | | |
| 100 | 24.8 | | 570 | 364 | 562 | 350 | 545 | 348 | 510 | 326 | | |
| MEAN DIA. 6.7 INCHES, WEIBULL PARAMETERS A= .0. B= 7.16, C= 4.31 | | | | | | | | | | | | |
| 20 | 57 | 3 | 1 | .0 | 0 | 0 | | | | | | |
| 4 | 3 | .3 | 5 | 2 | 5 | 2 | 5 | 2 | 4 | 1 | | |
| 5 | 6 | .8 | 19 | 12 | 19 | 12 | 16 | 11 | 17 | 10 | | |
| 6 | 11 | 2.2 | 58 | 39 | 57 | 39 | 56 | 37 | 53 | 35 | | |
| 7 | 16 | 4.3 | 123 | 85 | 122 | 84 | 120 | 82 | 117 | 79 | | |
| 6 | 19 | 6.7 | 199 | 140 | 198 | 139 | 191 | 137 | 191 | 133 | | |
| 9 | 19 | 8.4 | 259 | 194 | 258 | 163 | 256 | 181 | 251 | 178 | | |
| 10 | 13 | 7.1 | 223 | 160 | 222 | 159 | 220 | 158 | 217 | 155 | | |
| II | 6 | 4.0 | 126 | 91 | 126 | 91 | 125 | 90 | 124 | 89 | | |
| 12 | 2 | 1.6 | 59 | 37 | 50 | 37 | 50 | 37 | 49 | 36 | | |
| 96 | 35.3 | | 1062 | 750 | 1057 | 746 | 1046 | 735 | 1023 | 716 | | |
| MEAN DIA. 6.2 INCHES, WEIBULL PARAMETERS A= .0. B= 6.72, C= 4.69 | | | | | | | | | | | | |
| 25 | 70 | 4 | 1 | .1 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 |
| 5 | 3 | .4 | 14 | 10 | 14 | 10 | 14 | 10 | 14 | 10 | 14 | 10 |
| 6 | 6 | 1.2 | 41 | 31 | 41 | 31 | 41 | 31 | 40 | 30 | | |
| 7 | 10 | 2.6 | 93 | 70 | 93 | 70 | 93 | 70 | 92 | 69 | | |
| 8 | 14 | 4.8 | 169 | 127 | 169 | 127 | 169 | 126 | 168 | 125 | | |
| 9 | 18 | 7.6 | 276 | 206 | 276 | 206 | 275 | 206 | 274 | 205 | | |
| 10 | 16 | 0.6 | 303 | 226 | 303 | 226 | 303 | 226 | 302 | 225 | | |
| 11 | 12 | 7.8 | 275 | 205 | 275 | 205 | 275 | 205 | 274 | 205 | | |
| 12 | 7 | 5.4 | 191 | 143 | 191 | 143 | 191 | 143 | 190 | 142 | | |
| 13 | 3 | 2.7 | 95 | 72 | 95 | 72 | 95 | 72 | 96 | 71 | | |
| 14 | 1 | 1.1 | 37 | 28 | 37 | 28 | 37 | 28 | 37 | 28 | | |
| 91 | 42.4 | | 1497 | 1120 | 1497 | 1120 | 1496 | 1119 | 1490 | 1112 | | |
| MEAN DIA. 9.2 INCHES, WEIBULL PARAMETERS A= .0. B= 9.82, C= 4.91 | | | | | | | | | | | | |
| 30 | 81 | 4 | 1 | .1 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 |
| 5 | 2 | .3 | II | 9 | II | 9 | II | 9 | II | 9 | II | 9 |
| 6 | 4 | .8 | 32 | 24 | 32 | 24 | 32 | 24 | 32 | 24 | 32 | 24 |
| 7 | 6 | 1.6 | 64 | 50 | 64 | 50 | 64 | 50 | 64 | 50 | 64 | 50 |
| 8 | 9 | 3.2 | 125 | 98 | 125 | 98 | 125 | 98 | 125 | 98 | 125 | 97 |
| 9 | 12 | 5.4 | 211 | 164 | 211 | 164 | 211 | 164 | 211 | 164 | 211 | 164 |
| 10 | 16 | 8.8 | 348 | 269 | 348 | 269 | 348 | 269 | 347 | 269 | | |
| II | 13 | 6.7 | 342 | 265 | 342 | 265 | 342 | 265 | 342 | 265 | | |
| 12 | 11 | 8.8 | 344 | 267 | 344 | 267 | 344 | 267 | 344 | 267 | | |
| 13 | 7 | 6.5 | 267 | 199 | 257 | 199 | 257 | 199 | 257 | 200 | | |
| 14 | 4 | 4.3 | 170 | 132 | 170 | 132 | 170 | 132 | 170 | 132 | | |
| 15 | 1 | 1.2 | 48 | 38 | 48 | 36 | 48 | 36 | 48 | 38 | | |
| 86 | 49.7 | | 1956 | 1517 | 19% | 1517 | 1956 | 1517 | 1955 | 1517 | | |
| MEAN DIA. 10.3 INCHES, WEIBULL PARAMETERS A= .0. B= 10.94, C= 4.7; | | | | | | | | | | | | |

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | | 4 -inch class and greater to o.b. tops of - | | | | | |
|-----|--------------------|--------|----------------------|---------------|--------------------------|-------|---|-------|----------|-------|----------|-------|
| | | | | | | | 2 inches | | 3 inches | | 4 inches | |
| | | | | | O. b. | I. b. | O. b. | I. b. | O. b. | I. b. | O. b. | I. b. |
| ' | Yrs | Ft | In | No. | Ft 2 | | | | Ft 3 | | | |
| 35 | 90 | 4 | I | .1 | 4 | 3 | 4 | 3 | 4 | 3 | 4 | 3 |
| | 5 | I | .1 | | 6 | 4 | 6 | 4 | 6 | 4 | 5 | 4 |
| | 6 | 3 | .6 | | 25 | 20 | 25 | 20 | 25 | 20 | 24 | 19 |
| | 7 | 4 | 1.1 | | 46 | 37 | 46 | 37 | 45 | 36 | 44 | 35 |
| | 8 | 6 | 2.1 | | 90 | 72 | 90 | 72 | 90 | 72 | 89 | 71 |
| | 9 | 8 | 3.6 | | 152 | 120 | 152 | 120 | 151 | 120 | 150 | 120 |
| | 10 | 10 | 5.5 | | 233 | 187 | 233 | 187 | 232 | 196 | 231 | 185 |
| | 11 | II | 7.3 | | 311 | 246 | 311 | 248 | 310 | 247 | 306 | 246 |
| | 12 | II | 8.7 | | 370 | 295 | 369 | 295 | 366 | 2 % | 366 | 294 |
| | 13 | 10 | 9.3 | | 394 | 314 | 394 | 314 | 393 | 314 | 392 | 313 |
| | 14 | 8 | a.7 | | 366 | 292 | 366 | 292 | 365 | 292 | 364 | 291 |
| | 15 | 5 | 6.2 | | 262 | 210 | 262 | 210 | 262 | 210 | 261 | 210 |
| | 16 | 3 | 4.2 | | 179 | 144 | 179 | 144 | 179 | 144 | 179 | 143 |
| | 17 | 1 | 1.6 | | 67 | 54 | 67 | 54 | 67 | 54 | 67 | 43 |
| | 82 | 59.2 | | | 2505 | 2000 | 2504 | 2000 | 2497 | 1997 | 2484 | 1987 |

MEAN DIA. 11.5 INCHES. WEIBULL PARAMETERS A= .o. B= 12.23. C= 4.41

| | | | | | | | | | | | | |
|----|----|------|-------|----|------|------|------|------|------|------|------|------|
| 40 | 97 | 4 | I | .1 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 3 |
| | 5 | I | .1 | | 7 | 4 | 7 | 4 | 6 | 4 | 5 | 4 |
| | 6 | 2 | .4 | | 17 | 15 | 17 | 15 | 17 | 14 | 16 | 13 |
| | 7 | 3 | .8 | | 36 | 29 | 36 | 29 | 36 | 29 | 35 | 28 |
| | 9 | 4 | I . 4 | | 63 | 51 | 63 | 51 | 62 | 50 | 60 | 46 |
| | 9 | 5 | 2.2 | | 100 | 81 | 100 | 81 | 98 | 80 | 96 | 70 |
| | 10 | 7 | 3.8 | | 172 | 140 | 171 | 140 | 170 | 138 | 167 | 136 |
| | 11 | 9 | 5.3 | | 237 | 193 | 237 | 193 | 235 | 191 | 233 | 189 |
| | 12 | 9 | 7.1 | | 319 | 259 | 318 | 258 | 316 | 257 | 313 | 254 |
| | 13 | 8 | 7.4 | | 332 | 270 | 331 | 270 | 330 | 269 | 327 | 267 |
| | 14 | 8 | 8.6 | | 385 | 314 | 384 | 314 | 383 | 312 | 380 | 310 |
| | 15 | 7 | 8.7 | | 367 | 316 | 366 | 316 | 385 | 315 | 382 | 313 |
| | 16 | 6 | 6.4 | | 377 | 307 | 377 | 307 | 375 | 306 | 373 | 305 |
| | 17 | 4 | 6.4 | | 284 | 231 | 284 | 231 | 283 | 231 | 282 | 230 |
| | 18 | 3 | 5.3 | | 239 | 195 | 239 | 195 | 238 | 195 | 237 | 194 |
| | 19 | 2 | 4.0 | | i n | 144 | 177 | 144 | i n | 144 | 176 | 144 |
| | 20 | 1 | 2.2 | | 99 | 80 | 99 | 60 | 99 | 60 | 98 | 79 |
| | 79 | 72.4 | | | 3235 | 2632 | 3230 | 2631 | 3214 | 2618 | 3183 | 2595 |

KAN DIA. 13.0 INCHES. WEIBULL PARAMETERS A= .o. B= 13.77. C= 4.07

SI 70

200 trees per acre

| Age | Av. dom. ht. | D.b.h per acre | Stems | Basal area | All trees, total stem | 4 -inch class and greater to o.b. tops of-- | | | | | |
|-----------------------|--------------------|----------------------|-------|---------------|--------------------------|---|-----------|----------|----------|----------|-------------|
| | | | | | | 0. b. | I. b. | 2 inches | 3 inches | 4 inches | 0. b. I. b. |
| Yrs | Ft | In | No. | Ft2 | | Ft 3 | | | | | |
| 15 | 41 | 1 | 1 | .0 | 0 | 0 | | | | | |
| | 2 | 6 | 1 | .1 | 0 | 0 | | | | | |
| | 3 | 16 | 1 | .8 | 0 | 0 | | | | | |
| | 4 | 29 | 2 | 2.5 | 25 | 4 | 23 | 4 | 20 | 2 | 12 |
| | 5 | 41 | 1 | 1.6 | 101 | 54 | 99 | 52 | 93 | 47 | 62 |
| | 6 | 42 | 0 | 0.2 | 187 | 117 | 184 | 115 | 177 | 109 | 163 |
| | 7 | 35 | 9 | 9.3 | 237 | 1% | 234 | 156 | 226 | 152 | 215 |
| | 6 | 20 | 7 | 7.0 | 189 | 131 | 187 | 130 | 163 | 127 | 175 |
| | 9 | 8 | 3 | 3.5 | 100 | 70 | 99 | 70 | 97 | 68 | 93 |
| | 10 | 2 | 1 | 1.1 | 32 | 22 | 32 | 22 | 31 | 22 | 30 |
| | 200 | 36.2 | 871 | 5% | 6% | 549 | 829 | 527 | 770 | 467 | |
| MEAN DIA. 5.9 INCHES. | | | | | WEIBULL PARAMETERS | A= .0. | B= 6.26. | C= 3.65 | | | |
| 20 | 57 | 2 | 1 | .0 | 0 | 0 | | | | | |
| | 3 | 4 | 2 | .2 | 2 | 0 | | | | | |
| | 4 | 11 | 1 | 1.0 | 19 | 11 | 16 | 10 | 17 | 9 | 14 |
| | 5 | 20 | 2 | 2.1 | 67 | 43 | 66 | 42 | 64 | 40 | 59 |
| | 6 | 31 | 6 | 1 | 167 | 113 | 165 | 112 | 162 | 108 | 154 |
| | 7 | 39 | 10 | 10.4 | 303 | 211 | 301 | 209 | 296 | 206 | 267 |
| | a | 37 | 12 | 12.9 | 390 | 275 | 368 | 274 | 363 | 270 | 373 |
| | 9 | 27 | 11 | 11.9 | 359 | 263 | 366 | 262 | 364 | 259 | A 7 |
| | 10 | 14 | 7 | 7.6 | 240 | 173 | 239 | 172 | 237 | 171 | 234 |
| | II | 5 | 3 | 3.3 | 105 | 76 | 105 | 76 | 104 | 76 | 103 |
| | 12 | 1 | a | 25 | 19 | 25 | 19 | 25 | 19 | 25 | 18 |
| | 190 | 56.8 | 1687 | 1184 | 1675 | 1176 | 1652 | 1111 | 1606 | 1120 | |
| MEAN DIA. 7.4 INCHES. | | | | | WEIBULL PARAMETERS | A= .0. | B= 7.87. | C= 4.21 | | | |
| 25 | 70 | 2 | 1 | .0 | 1 | 1 | | | | | |
| | 3 | 2 | .1 | .1 | 3 | 2 | | | | | |
| | 4 | 5 | .4 | 16 | II | 16 | 11 | 16 | II | 15 | 10 |
| | 5 | II | 1.5 | 53 | 39 | 53 | 39 | 52 | 38 | 51 | 37 |
| | 6 | 18 | 3.5 | 123 | 92 | 123 | 92 | 122 | 91 | 121 | a9 |
| | 7 | 26 | 7 | 7.0 | 243 | 181 | 242 | 181 | 241 | 176 | 239 |
| | 6 | 33 | 11 | 11.5 | 403 | 300 | 402 | 299 | 401 | 296 | 396 |
| | 9 | 31 | 13 | 13.7 | 479 | 357 | 478 | 3% | 477 | 355 | 475 |
| | 10 | 25 | 13 | 13.7 | 477 | 355 | 477 | 354 | 416 | 353 | 474 |
| | 11 | 15 | 9 | 9.9 | 346 | 257 | 346 | 257 | 345 | 257 | 344 |
| | 12 | 7 | 5 | 5.5 | 192 | 143 | 192 | 143 | 192 | 143 | 191 |
| | 13 | 2 | 1 | 1.8 | 64 | 46 | 64 | 40 | 64 | 48 | 64 |
| | 176 | 66.7 | 2400 | 1766 | 2393 | 1780 | 2386 | 1773 | 2372 | 1757 | |
| MEAN DIA. 8.5 INCHES. | | | | | WEIBULL PARAMETERS | A= .0. | B= 8.99. | C= 4.38 | | | |
| 30 | 81 | 3 | 1 | .0 | 2 | 1 | | | | | |
| | 4 | 3 | .3 | 10 | 8 | 10 | 8 | 10 | 8 | 10 | 8 |
| | 5 | 7 | 1.0 | 37 | 29 | 37 | 29 | 37 | 29 | 37 | 29 |
| | 6 | 11 | 2.2 | 84 | 65 | 84 | 65 | 84 | 65 | 84 | 64 |
| | 7 | 17 | 4.5 | 177 | 137 | 177 | 137 | 177 | 137 | 176 | 137 |
| | 8 | 22 | 7 | 7.7 | 298 | 231 | 298 | 231 | 298 | 231 | 298 |
| | 9 | 25 | 11 | 11.0 | 429 | 332 | 429 | 332 | 429 | 332 | 429 |
| | 10 | 26 | 14 | 14.2 | 550 | 424 | 550 | 424 | 550 | 424 | 550 |
| | II | 22 | 14 | 14.5 | 563 | 435 | 563 | 435 | 563 | 435 | 564 |
| | 12 | 15 | 11 | 11.8 | 457 | 353 | 457 | 353 | 457 | 353 | 457 |
| | 13 | 9 | 8 | 8.3 | 322 | 248 | 322 | 248 | 322 | 248 | 322 |
| | 14 | 4 | 4 | 4.3 | 165 | 128 | 165 | 128 | 165 | 128 | 166 |
| | 15 | 1 | 1 | 1.2 | 47 | 37 | 47 | 37 | 47 | 37 | 37 |
| | 183 | 80.9 | 3141 | 2428 | 3139 | 2427 | 3139 | 2427 | 3140 | 2427 | |
| MEAN DIA. 9.5 INCHES. | | | | | WEIBULL PARAMETERS | A= .0. | B= 10.14. | C= 4.27 | | | |

SI 70

300 trees per acre

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | | 4 -inch class and greater to o.b. tops of— | | | | | |
|-----|--------------------|--------|----------------------|---------------|--------------------------|-------|--|------|----------|------|----------|------|
| | | | | | 0. b. | I. b. | 2 inches | | 3 inches | | 4 inches | |
| Yrs | Ft | In | No. | Ft 2 | Ft 3 | | | | | | | |
| 15 | 41 | 1 | 4 | .0 | 0 | 0 | | | | | | |
| | | 2 | 15 | .3 | 0 | 0 | | | | | | |
| | | 3 | 34 | 1.7 | 0 | 0 | | | | | | |
| | | 4 | 55 | 4.8 | 63 | 23 | 86 | 21 | 54 | 15 | 41 | 3 |
| | | 4 | 66 | 9.0 | 182 | 105 | 178 | 102 | 169 | 95 | 151 | 81 |
| | | 6 | 59 | 11.6 | 290 | 179 | 276 | 176 | 265 | 170 | 245 | 157 |
| | | 7 | 40 | 10.7 | 293 | 190 | 280 | 188 | 272 | 163 | 256 | 174 |
| | | 8 | 19 | 6.6 | 185 | 127 | 163 | 126 | 179 | 124 | 170 | 120 |
| | | 9 | 7 | 3.1 | 90 | 83 | 69 | 63 | 87 | 62 | 83 | 60 |
| | | 10 | 1 | .5 | 17 | 11 | 17 | II | 16 | 11 | 15 | II |
| | | | | | 300 | 48.5 | 1100 | 696 | 1663 | 667 | 1042 | 660 |
| | | | | | MEAN DIA. | 5.4 | INCHES. WEIBULL PARAMETERS A= .0. B= 5.75. C= 3.28 | | | | | |
| 20 | 57 | 1 | 1 | .0 | 0 | 0 | | | | | | |
| | | 2 | 3 | .1 | 0 | 0 | | | | | | |
| | | 3 | 11 | .5 | 6 | 1 | | | | | | |
| | | 4 | 23 | 2.0 | 42 | 24 | 41 | 23 | 38 | 20 | 32 | 15 |
| | | 5 | 39 | 5.3 | 135 | 89 | 133 | 87 | 128 | 62 | 118 | 73 |
| | | 6 | 52 | 10.2 | 295 | 1% | 282 | 193 | 275 | 167 | 262 | 175 |
| | | 7 | 56 | 14.9 | 442 | 309 | 439 | 306 | 431 | 300 | 415 | 288 |
| | | 8 | 46 | 16.7 | 512 | 362 | 509 | 360 | MI | 355 | 467 | 345 |
| | | 9 | 30 | 13.2 | 414 | 296 | 412 | 295 | 407 | 291 | 397 | 285 |
| | | 10 | 14 | 7.6 | 242 | 174 | 241 | 173 | 239 | 172 | 234 | 169 |
| | | 11 | 4 | 2.6 | 84 | 61 | 84 | 61 | 83 | 61 | 62 | 60 |
| | | 12 | 1 | .8 | 25 | 19 | 25 | 19 | 25 | 19 | 25 | 18 |
| | | | | | 262 | 74.0 | 2167 | 1531 | 2166 | 1517 | 2127 | 1487 |
| | | | | | MEAN DIA. | 6.9 | INCHES. WEIBULL PARAMETERS A= .0. B= 7.37. C= 3.92 | | | | | |
| 25 | 70 | 2 | 1 | .0 | 1 | 1 | | | | | | |
| | | 3 | 5 | .2 | 6 | 6 | | | | | | |
| | | 4 | II | 1.0 | 33 | 25 | 33 | 25 | 32 | 24 | 31 | 23 |
| | | 5 | 21 | 2.9 | 100 | 74 | 99 | 73 | 98 | 72 | 95 | 69 |
| | | 6 | 33 | 6.5 | 225 | 167 | 224 | 166 | 222 | 164 | 217 | 160 |
| | | 7 | 42 | 11.2 | 390 | 289 | 389 | 288 | 386 | 285 | 380 | 260 |
| | | 6 | 48 | 16.7 | 581 | 431 | 580 | 430 | 517 | 427 | 571 | 422 |
| | | 9 | 41 | 16.1 | 628 | 466 | 627 | 465 | 625 | 463 | 621 | 459 |
| | | 10 | 29 | 15.8 | 548 | 407 | 547 | 406 | 546 | 405 | 543 | 402 |
| | | 11 | 16 | 10.6 | 366 | 272 | 366 | 272 | 365 | 271 | 363 | 269 |
| | | 12 | 6 | 4.7 | 164 | 122 | 164 | 122 | 164 | 121 | 163 | 120 |
| | | 13 | 2 | 1.8 | 64 | 47 | 64 | 47 | 64 | 47 | 64 | 47 |
| | | | -me- | | 255 | 69.5 | 3106 | 2307 | 3093 | 2294 | 3079 | 2279 |
| | | | | | MEAN DIA. | 6.0 | INCHES. WEIBULL PARAMETERS A= .0. B= 8.52. C= 4.08 | | | | | |
| 30 | 81 | 2 | 1 | .0 | 1 | 1 | | | | | | |
| | | 3 | 3 | .1 | 6 | 5 | | | | | | |
| | | 4 | 7 | .6 | 24 | 16 | 24 | 16 | 24 | 18 | 23 | 18 |
| | | 5 | 12 | 1.6 | 63 | 49 | 63 | 49 | 63 | 49 | 63 | 49 |
| | | 6 | 20 | 3.9 | 153 | 117 | 153 | 117 | 152 | 117 | 151 | 117 |
| | | 7 | 27 | 7.2 | 279 | 216 | 279 | 216 | 279 | 215 | 279 | 214 |
| | | 8 | 34 | 11.9 | 460 | 355 | 460 | 355 | 460 | 354 | 459 | 353 |
| | | 9 | 36 | 16.0 | 616 | 476 | 616 | 476 | 616 | 475 | 616 | 473 |
| | | 10 | 34 | 16.6 | 719 | 554 | 719 | 554 | 719 | 554 | 716 | 553 |
| | | 11 | 21 | 17.9 | 691 | 533 | 691 | 533 | 691 | 533 | 691 | 532 |
| | | 12 | 17 | 13.4 | 517 | 399 | 517 | 399 | 517 | 399 | 518 | 398 |
| | | 13 | 9 | 6.3 | 322 | 246 | 322 | 246 | 322 | 248 | 322 | 247 |
| | | 14 | 4 | 4.3 | 166 | 126 | 166 | 126 | 166 | 126 | 166 | 127 |
| | | 15 | 1 | 1.2 | 47 | 37 | 47 | 37 | 47 | 37 | 47 | 37 |
| | | | | | 232 | 105.2 | 4064 | 3136 | 4057 | 3130 | 4056 | 3127 |
| | | | | | MEAN DIA. | 9.1 | INCHES. WEIBULL PARAMETERS A= .0. B= 9.69. C= 4.03 | | | | | |

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | 4-inch class and greater to o.b. tops of— | | | | | |
|-----|--------------------|--|----------------------|---------------|--------------------------|---|-------|----------|-------|----------|-------|
| | | | | | | 2 inches | | 3 inches | | 4 inches | |
| | | | | | 0. b. | I. b. | 0. b. | I. b. | 0. b. | I. b. | 0. b. |
| Yrs | Ft | In | No. | Ft 2 | | | Ft 3 | | | | |
| 35 | 90 | 2 | 1 | .0 | 1 | 1 | | | | | |
| | | 3 | 2 | 1 | 4 | 3 | | | | | |
| | | 4 | 4 | .4 | 15 | 12 | 15 | 12 | 15 | 12 | 15 |
| | | 5 | 7 | 1.0 | 40 | 32 | 40 | 32 | 40 | 32 | 40 |
| | | 6 | 12 | 2.4 | 99 | 76 | 99 | 78 | 99 | 78 | 98 |
| | | 7 | 17 | 4.6 | 190 | 150 | 190 | 150 | 190 | 150 | 150 |
| | | 8 | 22 | 7.7 | 321 | 254 | 321 | 254 | 321 | 254 | 322 |
| | | 9 | 26 | 11.6 | 480 | 381 | 480 | 381 | 480 | 381 | 481 |
| | | 10 | 30 | 16.5 | 685 | 543 | 685 | 543 | 685 | 543 | 686 |
| | | 11 | 27 | 17.9 | 746 | 592 | 746 | 592 | 746 | 592 | 747 |
| | | 12 | 24 | 19.0 | 789 | 626 | 709 | 626 | 789 | 626 | 790 |
| | | 13 | 18 | 16.7 | 695 | 551 | 695 | 551 | 695 | 551 | 695 |
| | | 14 | 12 | 12.9 | 537 | 426 | 537 | 426 | 537 | 426 | 538 |
| | | 15 | 7 | 6.6 | 360 | 285 | 360 | 285 | 360 | 285 | 360 |
| | | 16 | 3 | 4.2 | 175 | 138 | 175 | 138 | 175 | 138 | 175 |
| | | 17 | 1 | 1.6 | 66 | 53 | 66 | 53 | 66 | 53 | 66 |
| | | 213 | 125.1 | 5203 | 4125 | 5198 | 4121 | 5198 | 4121 | 5203 | 4121 |
| | | MEAN DIA. 10.4 INCHES. WEIBULL PARAMETERS A= .0. B= 11.02. C= 3.66 | | | | | | | | | |

| | | | | | | | | | | | |
|----|----|---|-------|------|------|------|------|------|------|------|------|
| 40 | 97 | 3 | 1 | .0 | 3 | 1 | | | | | |
| | | 4 | 3 | .3 | 12 | 10 | 12 | 10 | 12 | 10 | 12 |
| | | 5 | 5 | .7 | 39 | 24 | 30 | 24 | 30 | 24 | 30 |
| | | 6 | 8 | 1.6 | 69 | 57 | 69 | 57 | 69 | 57 | 69 |
| | | 7 | 11 | 3.0 | 129 | 105 | 129 | 105 | 129 | 105 | 105 |
| | | 8 | 14 | 4.9 | 216 | 174 | 216 | 174 | 216 | 174 | 216 |
| | | 9 | 16 | 8.0 | 352 | 284 | 352 | 284 | 352 | 284 | A 1 |
| | | 10 | M | 11.0 | 461 | 389 | 481 | 389 | 481 | 389 | 481 |
| | | 11 | 22 | 14.6 | 641 | 518 | 641 | 518 | 641 | 518 | 518 |
| | | 12 | 23 | 18.1 | 797 | 644 | 797 | 644 | 797 | 644 | 798 |
| | | 13 | M | 18.5 | 813 | 656 | 613 | 656 | 813 | 656 | 814 |
| | | 14 | 17 | 18.3 | 801 | 648 | 801 | 648 | 801 | 648 | 602 |
| | | 15 | 14 | 17.3 | 758 | 613 | 758 | 613 | 758 | 613 | 759 |
| | | 16 | 10 | 14.0 | 616 | 498 | 616 | 498 | 616 | 496 | 616 |
| | | 17 | 6 | 9.5 | 417 | 337 | 417 | 337 | 417 | 337 | 417 |
| | | 18 | 4 | 7.1 | 311 | 252 | 311 | 252 | 311 | 252 | 311 |
| | | 19 | 2 | 4.0 | 174 | 140 | 174 | 140 | 174 | 140 | 174 |
| | | 20 | 1 | 2.2 | 97 | 78 | 97 | 70 | 97 | 78 | 97 |
| | | 199 | 152.9 | 6717 | 5428 | 6714 | 5427 | 6714 | 5427 | 6717 | 5428 |
| | | MEAN DIA. 1.9 INCHES. WEIBULL PARAMETERS A= .0. B= 12.59. C= 3.64 | | | | | | | | | |

SI 70

400 trees per acre

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees | | 4 -inch class and greater to o.b. tops of— | | | | | |
|-----|--------------------|-------------------------|----------------------|---------------|------------|--|--|-------|----------|-------|----------|-------|
| | | | | | total stem | | 2 inches | | 3 inches | | 4 inches | |
| Yrs | Ft | In | No. | Ft 2 | 0. b. | L. b. | 0. b. | L. b. | 0. b. | L. b. | 0. b. | L. b. |
| 15 | 41 | 1 | 8 | .0 | 0 | 0 | | | | | | |
| | | 2 | 29 | .6 | 0 | 0 | | | | | | |
| | | 3 | 56 | 2.8 | 5 | 0 | | | | | | |
| | | 4 | 81 | 7.1 | 108 | 48 | 104 | 45 | 95 | 36 | 76 | 20 |
| | | 5 | 67 | 11.8 | 254 | 153 | 249 | 149 | 237 | 139 | 213 | 121 |
| | | 6 | 69 | 13.5 | 336 | 218 | 331 | 215 | 319 | 207 | 296 | 192 |
| | | 7 | 42 | 11.2 | 302 | 203 | 298 | 201 | 289 | 196 | 272 | 187 |
| | | 8 | 19 | 6.6 | 187 | 128 | 185 | 127 | 180 | 125 | 171 | 120 |
| | | 9 | 6 | 2.6 | 77 | 53 | 76 | 53 | 74 | 52 | 71 | 51 |
| | | 10 | 1 | .5 | 16 | 11 | 16 | 11 | 16 | 11 | 15 | 11 |
| | | 400 | 56.9 | 1295 | 814 | 1259 | 801 | 1210 | 766 | 1114 | 702 | |
| | | MEAN DIA. 5 . 1 INCHES. | | | | WEIBULL PARAMETERS A = .0 . B = 5.38 . C = 3.03 | | | | | | |
| 20 | 5-1 | 1 | 1 | .0 | 0 | 0 | | | | | | |
| | | 2 | 7 | .2 | 0 | 0 | | | | | | |
| | | 3 | 19 | .9 | 11 | 3 | | | | | | |
| | | 4 | 38 | 3.3 | 72 | 42 | 70 | 40 | 64 | 35 | 54 | 26 |
| | | 5 | 59 | 8.0 | 208 | 137 | 205 | 134 | 197 | 127 | 181 | 113 |
| | | 6 | 73 | 14.2 | 405 | 279 | 401 | 275 | 390 | 266 | 369 | 248 |
| | | 7 | 71 | 18.9 | 563 | 396 | 5 % | 392 | 547 | 384 | 526 | 367 |
| | | 8 | 55 | 19.1 | 587 | 417 | 583 | 414 | 575 | 408 | 558 | 396 |
| | | 9 | 31 | 13.6 | 428 | 306 | 426 | 305 | 420 | 301 | 410 | 295 |
| | | 10 | 13 | 7.0 | 224 | 162 | 223 | 161 | 221 | 160 | 217 | 157 |
| | | 11 | 4 | 2.6 | 85 | 61 | 85 | 61 | 84 | 60 | 82 | 59 |
| | | 12 | 1 | .8 | 25 | 19 | 25 | 19 | 25 | 19 | 25 | 18 |
| | | 372 | 88.6 | 2608 | 1822 | 2576 | 1801 | 2523 | 1760 | 2422 | 1679 | |
| | | MEAN DIA. 6.6 INCHES. | | | | WEIBULL PARAMETERS A = .08 . B = 7.01 . C = 3.69 | | | | | | |
| 25 | 70 | 2 | 3 | .1 | 2 | 2 | | | | | | |
| | | 3 | 9 | .4 | 15 | 11 | | | | | | |
| | | 4 | 19 | 1.7 | 57 | 43 | 56 | 42 | 55 | 40 | 52 | 31 |
| | | 5 | 32 | 4.4 | 150 | 112 | 149 | 111 | 147 | 108 | 142 | 103 |
| | | 6 | 47 | 9.2 | 318 | 236 | 316 | 235 | 313 | 231 | 306 | 224 |
| | | 7 | 57 | 15.2 | 526 | 390 | 524 | 388 | 519 | 384 | 510 | 375 |
| | | 8 | 59 | 20.6 | 711 | 527 | 709 | 525 | 705 | 521 | 696 | 513 |
| | | 9 | 48 | 21.2 | 732 | 542 | 731 | 541 | 727 | 537 | 720 | 531 |
| | | 10 | 32 | 17.4 | 603 | 446 | 602 | 445 | 600 | 443 | 595 | 439 |
| | | 11 | 16 | 10.5 | 364 | 270 | 364 | 270 | 362 | 269 | 360 | 267 |
| | | 12 | 6 | 4.7 | 163 | 121 | 163 | 121 | 162 | 120 | 161 | 119 |
| | | 13 | 2 | 1.8 | 63 | 47 | 63 | 47 | 63 | 47 | 64 | 47 |
| | | 330 | 107.2 | 3704 | 2747 | 3677 | 2725 | 3653 | 2700 | 3606 | 2655 | |
| | | MEAN DIA. 7.7 INCHES. | | | | WEIBULL PARAMETERS A = .0 . B = 8.20 . C = 3.89 | | | | | | |
| 30 | 81 | 2 | 2 | .0 | 1 | 1 | | | | | | |
| | | 3 | 5 | .2 | 9 | 7 | | | | | | |
| | | 4 | 10 | .9 | 33 | 26 | 33 | 26 | 33 | 26 | 32 | 25 |
| | | 5 | 18 | 2.5 | 95 | 73 | 95 | 73 | 94 | 72 | 93 | 71 |
| | | 6 | 28 | 5.5 | 212 | 163 | 211 | 162 | 210 | 161 | 206 | 159 |
| | | 7 | 38 | 10.2 | 391 | 301 | 391 | 300 | 389 | 299 | 387 | 296 |
| | | 8 | 45 | 15.7 | 604 | 465 | 604 | 464 | 602 | 463 | 600 | 460 |
| | | 9 | 46 | 20.3 | 781 | 602 | 781 | 601 | 780 | 600 | 778 | 597 |
| | | 10 | 40 | 21.8 | 839 | 645 | 839 | 645 | 838 | 644 | 637 | 643 |
| | | 11 | 30 | 19.8 | 762 | 585 | 762 | 585 | 761 | 585 | 760 | 584 |
| | | 12 | 19 | 14.9 | 574 | 442 | 574 | 442 | 574 | 441 | 573 | 440 |
| | | 13 | 9 | 8.3 | 319 | 246 | 319 | 246 | 319 | 246 | 319 | 245 |
| | | 14 | 4 | 4.3 | 164 | 127 | 164 | 127 | 164 | 127 | 165 | 126 |
| | | 15 | 1 | 1.2 | 47 | 36 | 47 | 36 | 47 | 36 | 47 | 37 |
| | | 295 | 125.6 | 4831 | 3719 | 4820 | 3707 | 4811 | 3700 | 4799 | 3683 | |
| | | MEAN DIA. E.6 INCHES. | | | | WEIBULL PARAMETERS A = .0 , B = 9.39 , C = 3.87 | | | | | | |

| Age | Av. dom. ht. | D.b.h Stems per acre | B a s a l area | All trees, total stem | 4 -inch class and greater to o.b. tops of— | | | | | | | | |
|-----|--------------------|--|----------------------|--------------------------|--|-------|----------|-------|----------|-------|-------|-----|--|
| | | | | | 2 inches | | 3 inches | | 4 inches | | | | |
| | | | | 0. b. | I. b. | 0. b. | I. b. | 0. b. | I. b. | O. b. | I. b. | | |
| Yrs | Ft | In | No. | Ft 2 | --- | --- | --- | --- | --- | Ft 3 | --- | --- | |
| 35 | 50 | 2 | 1 | .0 | 1 | 1 | | | | | | | |
| | | 3 | 3 | .1 | 6 | 5 | | | | | | | |
| | | 4 | 6 | .5 | 22 | 17 | 22 | 17 | 22 | 17 | 21 | 17 | |
| | | 5 | 11 | 1.5 | 63 | 50 | 63 | 50 | 83 | 50 | 62 | 49 | |
| | | 6 | 17 | 3.4 | 140 | 110 | 140 | 110 | 140 | 110 | 139 | 109 | |
| | | 7 | 23 | 6.2 | 257 | 204 | 257 | 204 | 257 | 204 | 257 | 203 | |
| | | 8 | 30 | 10.6 | 438 | 347 | 436 | 347 | 438 | 347 | 438 | 346 | |
| | | 9 | 34 | 15.2 | 629 | 497 | 629 | 497 | 629 | 497 | 628 | 4% | |
| | | 10 | 37 | 20.4 | 644 | 568 | 644 | 568 | 844 | 668 | 644 | 667 | |
| | | 11 | 33 | 22.0 | 911 | 720 | 911 | 720 | 911 | 720 | 911 | 720 | |
| | | 12 | 27 | 21.4 | 886 | 702 | 886 | 702 | 6% | 702 | 888 | 701 | |
| | | 13 | 20 | 16.6 | 771 | 610 | 771 | 610 | 771 | 610 | 772 | 609 | |
| | | 14 | 13 | 14.0 | 581 | 460 | 581 | 460 | 581 | 460 | 562 | 459 | |
| | | 15 | 7 | 6.7 | 360 | 284 | 360 | 284 | 360 | 284 | 359 | 284 | |
| | | 16 | 3 | 4.2 | 175 | 138 | 175 | 138 | 175 | 138 | 175 | 138 | |
| | | 17 | 1 | 1.6 | 66 | 53 | 66 | 53 | 66 | 53 | 66 | 53 | |
| | | 266 | 148.4 | 6150 | 4666 | 6143 | 4860 | 6143 | 4860 | 6142 | 4851 | | |
| | | MEAN DIA. 10.1 INCHES. WEIBULL PARAMETERS A= .0. B= 10.73. C= 3.73 | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|----|----|--|-------|------|------|------|------|------|------|------|------|-----|--|
| 40 | 97 | 2 | 1 | .0 | 1 | 1 | | | | | | | |
| | | 3 | 2 | .1 | 4 | 3 | | | | | | | |
| | | 4 | 4 | .4 | 16 | 13 | 16 | 13 | 16 | 13 | 16 | 13 | |
| | | 5 | 7 | 1.0 | 42 | 34 | 42 | 34 | 42 | 34 | 42 | 34 | |
| | | 6 | 10 | 2.0 | 86 | 69 | 86 | 69 | 66 | 69 | 86 | 69 | |
| | | 7 | 15 | 4.0 | 176 | 143 | 176 | 143 | 176 | 142 | 141 | | |
| | | 6 | 19 | 6.7 | 293 | 236 | 293 | 236 | 293 | 236 | 292 | 235 | |
| | | 9 | 23 | 10.2 | 448 | 362 | 448 | 362 | 448 | 362 | 448 | 361 | |
| | | 10 | 26 | 14.3 | 625 | 504 | 625 | 504 | 625 | 504 | 624 | 503 | |
| | | 11 | 26 | 17.3 | 757 | 610 | 757 | 610 | 757 | 610 | 756 | 609 | |
| | | 12 | 26 | 20.6 | sol | 726 | 901 | 726 | sol | 726 | 900 | 725 | |
| | | 13 | 24 | 22.3 | 975 | 767 | 975 | 767 | 975 | 767 | 975 | 786 | |
| | | 14 | 20 | 21.5 | 942 | 760 | 942 | 760 | 942 | 760 | 942 | 759 | |
| | | 15 | 16 | 19.6 | 665 | 698 | 865 | 698 | 865 | 6% | 866 | 698 | |
| | | 16 | 11 | 15.5 | 677 | 547 | 677 | 547 | 677 | 547 | 676 | 546 | |
| | | 17 | 7 | 11.1 | 466 | 393 | 4% | 393 | 486 | 393 | 487 | 392 | |
| | | 18 | 4 | 7.1 | 311 | 251 | 311 | 251 | 311 | 251 | 311 | 252 | |
| | | 19 | 2 | 4.0 | 174 | 140 | 174 | 140 | 174 | 140 | 174 | 140 | |
| | | 20 | 1 | 2.2 | 97 | 76 | 97 | 76 | 97 | 76 | 97 | 78 | |
| | | 244 | 180.0 | 7876 | 6355 | 7671 | 6351 | 7671 | 6350 | 7671 | 6341 | | |
| | | MEAN DIA. 11.6 INCHES. WEIBULL PARAMETERS A= .0. B= 12.33. C= 3.54 | | | | | | | | | | | |

SI 70

500 trees per acre

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees total stem | 4-inch class and greater to o.b. tops of— | | | | | |
|-----|--------------------|--------|--|---------------|-------------------------|---|-------|-------|-------------|-------------|-----------|
| | | | | | | 0. b. I. b. | 0. b. | I. b. | 0. b. I. b. | 0. b. I. b. | |
| Yrs | Ft | In | No. | Ft 2 | | Ft 3 | | | | | |
| 15 | 41 | 1 | 16 | .1 | 0 | 0 | | | | | |
| | | 2 | 47 | 1.0 | 0 | 0 | | | | | |
| | | 3 | 64 | 4.1 | 1.9 | 0 | | | | | |
| | | 4 | 107 | 9.3 | 156 | 76 | 151 | 74 | 139 | 63 | 115 43 |
| | | 5 | 103 | 14.1 | 315 | 194 | 309 | 169 | 294 | 178 | 266 157 |
| | | 6 | 76 | 14.9 | 380 | 250 | 375 | 246 | 361 | 237 | 336 219 |
| | | 7 | 43 | 11.5 | 314 | 213 | 310 | 211 | 301 | 205 | 263 194 |
| | | 8 | 18 | 6.3 | 179 | 124 | 177 | 123 | 172 | 120 | 163 115 |
| | | 9 | 5 | 2.2 | 64 | 46 | 64 | 46 | 62 | 45 | 60 43 |
| | | 10 | 1 | .5 | 16 | II | 16 | II | 16 | II | 15 II |
| | | i | 500 | 64. I | 1443 | 916 | 1402 | 900 | 1345 | 859 | 1238 762 |
| | | | MEAN DIA. 4.6 INCHES. WEIBULL PARAMETERS A= .0. B= 5.08, C= 2.63 | | | | | | | | |
| 20 | 57 | 1 | 2 | .0 | 0 | 0 | | | | | |
| | | 2 | 12 | .3 | 0 | 0 | | | | | |
| | | 3 | 30 | 1.5 | 20 | 7 | | | | | |
| | | 4 | 55 | 4.8 | 107 | 65 | 104 | 62 | 96 | 54 | 80 40 |
| | | 5 | 79 | 10.6 | 285 | 190 | 280 | 185 | 268 | 175 | 245 154 |
| | | 6 | 92 | 16.0 | 518 | 358 | 512 | 353 | 498 | 341 | 470 318 |
| | | 7 | 63 | 22.1 | 666 | 469 | 660 | 465 | 647 | 454 | 621 434 |
| | | 6 | 59 | 20.6 | 636 | 453 | 632 | 450 | 622 | 443 | 603 429 |
| | | 9 | 32 | 14.1 | 446 | 320 | 444 | 318 | 438 | 315 | 427 307 |
| | | 10 | 12 | 6.5 | 209 | 151 | 208 | 150 | 206 | 149 | 201 146 |
| | | II | 3 | 2.0 | 64 | 46 | 64 | 46 | 63 | 46 | 62 45 |
| | | 12 | 1 | .8 | 25 | 19 | 25 | 19 | 25 | 19 | 25 18 |
| | | | | | 460 | 101.5 | 2976 | 2078 | 2929 | 2048 | 2863 1996 |
| | | | MEAN DIA. 6.4 INCHES. WEIBULL PARAMETERS A= .0. B= 6.74, C= 3.51 | | | | | | | | |
| 25 | 70 | 1 | 1 | .3 | 0 | 0 | | | | | |
| | | 2 | 4 | .1 | 3 | 2 | | | | | |
| | | 3 | 13 | .6 | 22 | 16 | | | | | |
| | | 4 | 27 | 2.4 | 81 | 60 | 80 | 59 | 77 | 56 | 72 51 |
| | | 5 | 44 | 6.0 | 207 | 153 | 205 | 151 | 201 | 147 | 192 139 |
| | | 6 | 61 | 12.0 | 413 | 305 | 411 | 303 | 405 | 297 | 393 286 |
| | | 7 | 72 | 19.2 | 664 | 491 | 661 | 488 | 654 | 481 | 640 468 |
| | | 8 | 68 | 23.7 | 818 | 605 | et 5 | 603 | 809 | 597 | 797 566 |
| | | 9 | 54 | 23.9 | 822 | 608 | 820 | 606 | 815 | 602 | 806 594 |
| | | 10 | 34 | 18.5 | 639 | 473 | 636 | 472 | 635 | 469 | 629 464 |
| | | 11 | 16 | 10.6 | 364 | 270 | 363 | 269 | 362 | 268 | 359 265 |
| | | 12 | 6 | 4.5 | 163 | 121 | 163 | 121 | 162 | 120 | 161 119 |
| | | 13 | t | .9 | 32 | 23 | 32 | 23 | 32 | 23 | 32 23 |
| | | | | | 401 | 122.6 | 4226 | 3127 | 4188 | 3095 | 4152 3060 |
| | | | MEAN OIA. 7.5 INCHES. WEIBULL PARAMETERS A= .0. B= 7.95, C= 3.74 | | | | | | | | |
| 30 | 81 | 2 | 2 | .0 | 1 | t | | | | | |
| | | 3 | 7 | .3 | 14 | II | | | | | |
| | | 4 | 14 | 1.2 | 47 | 36 | 47 | 36 | 46 | 35 | 45 33 |
| | | 5 | 25 | 3.4 | 131 | 101 | 130 | 100 | 129 | 98 | 126 95 |
| | | 6 | 37 | 7.3 | 279 | 214 | 276 | 213 | 276 | 211 | 272 207 |
| | | 7 | 47 | 12.6 | 462 | 370 | 481 | 369 | 479 | 367 | 475 362 |
| | | 8 | 55 | 19.2 | 737 | 567 | 736 | 566 | 733 | 563 | 728 557 |
| | | 9 | 53 | 23.4 | 899 | 691 | 898 | 690 | 896 | 688 | 892 663 |
| | | 10 | 45 | 24.6 | 942 | 724 | 941 | 723 | 940 | 721 | 937 718 |
| | | 11 | 33 | 21.6 | 836 | 642 | 836 | 642 | 835 | 640 | 933 636 |
| | | 12 | 19 | 14.9 | 572 | 440 | 572 | 440 | 572 | 439 | 572 438 |
| | | 13 | 9 | a.3 | 319 | 245 | 319 | 245 | 319 | 245 | 318 244 |
| | | 14 | 4 | 4.3 | 164 | 127 | 164 | 127 | 164 | 127 | 164 126 |
| | | 15 | 1 | 1.2 | 47 | 36 | 47 | 36 | 47 | 36 | 47 36 |
| | | | | | 351 | t42.6 | 5470 | 4205 | 5449 | 4187 | 5436 4170 |
| | | | MEAN DIA. 6.6 INCHES. WEIBULL PARAMETERS A= .0. B= 9.16, C= 3.75 | | | | | | | | |

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | | 4 -inch class and greater to o.b. tops of— | | | | | |
|-----|--------------------|---|----------------------|---------------|--------------------------|-------|--|------|----------|------|---------|-----|
| | | | | | 0. b. | I. b. | 2 inches | | 3 inches | | 4 inch& | |
| Yrs | Ft | In | No. | Ft 2 | Ft 3 | | | | | | | |
| 35 | 90 | 2 | 1 | .0 | 1 | 1 | | | | | | |
| | | 3 | 4 | .2 | 9 | 7 | | | | | | |
| | | 4 | 8 | .7 | 30 | 23 | 30 | 23 | 29 | 23 | 28 | 22 |
| | | 5 | 14 | 1.9 | 79 | 62 | 79 | 62 | 79 | 62 | 78 | 61 |
| | | 6 | 21 | 4.1 | 171 | 135 | 171 | 135 | 170 | 134 | 169 | 133 |
| | | 7 | 29 | 7.8 | 321 | 254 | 321 | 253 | 320 | 252 | 319 | 250 |
| | | 8 | 36 | 12.6 | 521 | 411 | 521 | 411 | 520 | 410 | 518 | 408 |
| | | 9 | 40 | 17.7 | 733 | 579 | 733 | 578 | 732 | 577 | 733 | 575 |
| | | 10 | 45 | 24.6 | 1018 | 804 | 1018 | 803 | 1017 | 802 | 1015 | 800 |
| | | 11 | 31 | 24.5 | 1013 | 800 | 1013 | 800 | 1012 | 799 | 1011 | 797 |
| | | 12 | 30 | 23.6 | 977 | 772 | 977 | 772 | 977 | 771 | 977 | 769 |
| | | 13 | 22 | 20.4 | 841 | 665 | 841 | 665 | 841 | 664 | 841 | 662 |
| | | 14 | 14 | 15.0 | 621 | 491 | 621 | 491 | 621 | 490 | 620 | 489 |
| | | 15 | 7 | 8.6 | 357 | 281 | 357 | 281 | 357 | 281 | 3% | 282 |
| | | 16 | 3 | 4.2 | 173 | 137 | 173 | 137 | 173 | 137 | 1 N | 137 |
| | | 17 | 1 | 1.6 | 65 | 52 | 65 | 52 | 65 | 52 | 65 | 52 |
| | | 312 | 167.7 | 6930 | 5474 | 6920 | 5463 | 6913 | 5454 | 6901 | 5437 | |
| | | MEAN DIA. 9.9 INCHES. WEIBULL PARAMETERS A = .0. e = 10.53. C = 3.64 | | | | | | | | | | |
| 40 | 97 | 2 | 1 | .0 | 1 | 1 | | | | | | |
| | | 3 | 3 | .1 | 7 | 6 | | | | | | |
| | | 4 | 5 | .4 | 20 | 16 | 20 | 16 | 19 | 15 | 18 | 14 |
| | | 5 | 9 | 1.2 | 54 | 44 | 54 | 44 | 53 | 43 | 52 | 42 |
| | | 6 | 13 | 2.6 | 113 | 90 | 113 | 90 | 112 | 90 | 110 | 89 |
| | | 7 | 18 | 4.9 | 212 | 171 | 212 | 171 | 211 | 170 | 210 | 168 |
| | | 8 | 23 | 8.1 | 355 | 285 | 355 | 285 | 354 | 284 | 352 | 282 |
| | | 9 | 27 | 12.1 | x 6 | 424 | 526 | 424 | 525 | 422 | 524 | 420 |
| | | 10 | 30 | 16.5 | 722 | 582 | 722 | 581 | 721 | 580 | 719 | 577 |
| | | 11 | 31 | 20.7 | 903 | 727 | 903 | 727 | 902 | 725 | 900 | 723 |
| | | 12 | so | 23.8 | 1040 | 838 | IWO | 838 | 1039 | 836 | 1038 | 834 |
| | | 13 | 27 | 25.2 | 10% | 886 | 1098 | 885 | 1096 | e m | 1097 | 882 |
| | | 14 | 22 | 23.8 | 1038 | 836 | 1038 | 836 | 1038 | 835 | 1037 | 834 |
| | | 15 | 17 | 21.1 | 921 | 741 | 921 | 741 | 921 | 741 | 920 | 740 |
| | | 16 | 12 | 16.9 | 739 | 5 % | 739 | 5 % | 739 | 595 | 739 | 594 |
| | | 17 | 7 | 11.2 | 467 | 393 | 467 | 393 | 467 | 393 | 467 | 392 |
| | | 18 | 4 | 7.1 | 311 | 251 | 311 | 251 | 311 | 251 | 312 | 250 |
| | | 19 | 2 | 4.0 | 174 | 140 | 174 | 140 | 174 | 140 | 175 | 140 |
| | | 20 | 1 | 2.2 | 97 | 78 | 97 | 78 | 97 | 78 | 96 | 78 |
| | | 282 | 202.0 | 8818 | 7105 | 8810 | 7 0 % | 8801 | 7082 | 8786 | 7059 | |
| | | MEAN DIA. 11.5 INCHES. WEIBULL PARAMETERS A = -0. B = 12.14. C = 3.48 | | | | | | | | | | |

SI 70

600 trees per acre

| Age | Av. dom. ht. | D.b.h | Stems per acre | Basal area | All trees, total stem | 4 -inch class and greater to o.b. tops of— | | |
|---|--------------------|-------|----------------------|---------------|--------------------------|--|-----------|----------|
| | | | | | | 2 inches | | 3 inches |
| Yrs | Ft | In | No. | Ft 2 | | Ft 3 | | |
| 15 | 41 | 1 | 26 | .1 | 0 0 | | | |
| | 2 | 69 | 1.5 | | 0 0 | | | |
| | 3 | 112 | 5.5 | | 36 0 | | | |
| | 4 | 130 | 11.4 | 203 | 108 197 103 | 182 90 | 154 66 | |
| | 5 | 117 | 16.0 | 368 | 232 361 226 | 345 213 | 314 188 | |
| | 6 | 80 | 15.7 | 406 | 271 400 267 | 367 256 | 361 236 | |
| | 7 | 43 | 11.5 | 316 | 217 312 214 | 304 208 | 287 195 | |
| 8 | 17 | 5.9 | 170 | 118 | 166 117 | 164 114 | 155 109 | |
| 9 | 5 | 2.2 | 65 | 46 | 64 46 | 63 44 | 60 42 | |
| 10 | 1 | .5 | 16 | 11 | 16 11 | 16 11 | 15 11 | |
| | 600 | 70.4 | 1582 | 1003 | 1518 984 | 1461 936 | 1346 847 | |
| MEAN DIA. 4.6 INCHES. WEIBULL PARAMETERS A = .0, B = 4.64, C = 2.67 | | | | | | | | |
| 20 | 57 | 1 | 4 | .0 | 0 0 | | | |
| | 2 | 17 | .4 | | 0 0 | | | |
| | 3 | 42 | 2.1 | 30 | 12 | | | |
| | 4 | 73 | 6.3 | 145 | 69 140 | 65 129 | 74 108 | 54 |
| | 5 | 99 | 13.4 | 360 | 242 354 | 236 336 | 222 309 | 195 |
| | 6 | 108 | 21.1 | 511 | 423 604 | 417 566 | 402 552 | 374 |
| | 7 | 93 | 24.7 | 748 | 527 741 | 522 725 | 510 694 | 466 |
| 8 | 62 | 21.5 | 669 | 417 | 664 474 | 653 466 | 632 450 | |
| 9 | 32 | 14.1 | 445 | 319 | 443 317 | 437 314 | 425 306 | |
| 10 | 12 | 6.5 | 209 | 150 | 208 149 | 205 148 | 200 145 | |
| 11 | 3 | 2.0 | 64 | 46 | 64 46 | 63 46 | 61 45 | |
| 12 | 1 | .8 | 26 | 19 | 26 19 | 26 19 | 25 18 | |
| | 546 | 112.9 | 3307 | 2304 | 3244 2265 | 3162 2201 | 3006 2073 | |
| MEAN DIA. 6.2 INCHES. WEIBULL PARAMETERS A = .0, B = 6.52, C = 3.37 | | | | | | | | |
| 25 | 70 | 1 | 1 | .0 | 0 0 | | | |
| | 2 | 6 | .1 | | 4 3 | | | |
| | 3 | 18 | .9 | 31 | 22 | | | |
| | 4 | 35 | 3.0 | 105 | 77 103 | 75 99 | 72 51 | 64 |
| | 5 | 56 | 7.6 | 261 | 193 258 | 191 252 | 185 240 | 173 |
| | 6 | 75 | 14.7 | 505 | 373 501 | 370 493 | 362 416 | 346 |
| | 7 | 84 | 22.4 | 770 | 569 766 | 565 756 | 557 738 | 540 |
| 8 | 77 | 26.8 | 921 | 681 | 916 676 | 910 670 | 694 6% | |
| 9 | 58 | 25.5 | 876 | 649 | 676 647 | 670 641 | 658 631 | |
| 10 | 35 | 19.0 | 655 | 463 | 65 482 | 650 479 | 643 474 | |
| 11 | 16 | 10.5 | 362 | 268 | 361 267 | 360 266 | 357 263 | |
| 12 | 6 | 4.7 | 162 | 120 | 162 120 | 161 119 | 160 118 | |
| 13 | 1 | .9 | 32 | 23 | 32 23 | 32 23 | 32 23 | |
| | 466 | 136.3 | 4666 | 3461 | 4631 3418 | 4563 3374 | 4489 3288 | |
| MEAN DIA. 7.3 INCHES. WEIBULL PARAMETERS A = .0, B = 7.75, C = 3.62 | | | | | | | | |
| 30 | 81 | 1 | 1 | .0 | 0 0 | | | |
| | 2 | 3 | .1 | | 2 2 | | | |
| | 3 | 9 | .4 | 17 | 13 | | | |
| | 4 | 18 | 1.6 | 60 | 47 59 | 46 58 | 44 55 | 41 |
| | 5 | 31 | 4.2 | 163 | 124 162 | 123 160 | 121 155 | 117 |
| | 6 | 44 | 0.7 | 332 | 254 331 | 253 327 | 249 321 | 243 |
| | 7 | 56 | 15.0 | 575 | 442 574 | 440 570 | 436 563 | 428 |
| 8 | 63 | 22.1 | 645 | 650 | 843 646 | 840 643 | 832 634 | |
| 9 | 60 | 26.6 | 1019 | 782 | 1017 760 | 1014 777 | 1007 769 | |
| 10 | 49 | 26.6 | 1027 | 769 | 1026 788 | 1024 764 | 1019 778 | |
| 11 | 35 | 23.2 | 888 | 661 | 887 660 | 885 679 | 882 676 | |
| 12 | 20 | 15.8 | 604 | 463 | 604 463 | 603 462 | 602 460 | |
| 13 | 9 | 6.3 | 319 | 245 | 319 245 | 318 245 | 317 244 | |
| 14 | 3 | 3.2 | 123 | 95 | 123 95 | 123 95 | 123 94 | |
| 15 | 1 | 1.2 | 47 | 36 | 47 36 | 47 36 | 47 37 | |
| | 402 | 157.4 | 6021 | 4623 | 5992 4597 | 5969 4571 | 5923 4521 | |
| MEAN DIA. 8.5 INCHES. WEIBULL PARAMETERS A = .0, B = 8.99, C = 3.66 | | | | | | | | |

SI 70

700 trees per acre

| Age | Av. dom. ht. | D.b.h. | Stems per acre | Basal area | All trees, total stem | | 4 -inch class and greater to o.b. tops of— | | | | | |
|-----|--------------------|--------|--|---------------|--------------------------|-------|--|------|----------|----------|----------|------|
| | | | | | 0. b. | I. b. | 2 inches | | 3 inches | | 4 inches | |
| Yrs | Ft | In | No. | Ft 2 | Ft 3 | | | | | | | |
| 15 | 41 | 1 | 39 | .2 | 0 | 0 | | | | | | |
| | | 2 | 93 | 2.0 | 0 | 0 | | | | | | |
| | | 3 | 140 | 6.9 | 60 | 4 | | | | | | |
| | | 4 | 153 | 13.3 | 251 | 139 | 244 | 133 | 226 | 119 | 196 | 91 |
| | | 5 | 127 | 17.3 | 408 | 260 | 401 | 254 | 364 | 240 | 351 | 213 |
| | | 6 | 63 | 16.3 | 425 | 285 | 419 | 280 | 406 | 270 | 381 | 249 |
| | | 7 | 42 | 11.2 | 310 | 213 | 307 | 210 | 299 | 204 | 263 | 192 |
| | | 8 | 17 | 5.9 | 170 | 119 | 168 | 118 | 164 | 115 | 156 | 109 |
| | | 9 | 5 | 2.2 | 64 | 46 | 64 | 46 | 62 | 44 | 60 | 42 |
| | | 10 | 1 | .5 | 16 | 12 | 16 | 12 | 16 | 12 | 15 | 11 |
| | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | | 700 | 76.0 | 1704 | 1078 | 1619 | 1053 | 1559 | 1004 | 1442 | 907 |
| | | | MEAN DIA. 4.5 INCHES. WEIBULL PARAMETERS | | | | | | A= .0. | B= 4.63. | C= 2.54 | |
| 20 | 57 | 1 | 6 | .0 | 0 | 0 | | | | | | |
| | | 2 | 24 | .5 | 0 | 0 | | | | | | |
| | | 3 | 55 | 2.7 | 41 | 18 | | | | | | |
| | | 4 | 91 | 7.9 | 184 | 115 | 178 | 109 | 164 | 96 | 137 | 70 |
| | | 5 | 119 | 16.1 | 436 | 294 | 430 | 267 | 411 | 270 | 373 | 237 |
| | | 6 | 122 | 23.6 | 694 | 482 | 685 | 475 | 664 | 458 | 624 | 424 |
| | | 7 | 101 | 26.9 | 815 | 575 | 607 | 569 | 789 | 556 | 754 | 529 |
| | | 9 | 65 | 22.6 | 704 | 502 | 699 | 498 | 686 | 489 | 662 | 472 |
| | | 9 | 32 | 14.1 | 446 | 321 | 443 | 319 | 437 | 315 | 424 | 307 |
| | | 10 | 11 | 6.0 | 191 | 138 | 190 | 137 | 166 | 136 | 184 | 133 |
| | | 11 | 3 | 2.0 | 64 | 46 | 64 | 46 | 63 | 46 | 62 | 45 |
| | | 12 | 1 | .8 | 26 | 19 | 26 | 19 | 26 | 19 | 25 | 18 |
| | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | | 630 | 123.3 | 3603 | 2510 | 3522 | 2459 | 3428 | 2365 | 3245 | 2235 |
| | | | MEAN DIA. 6.0 INCHES. WEIBULL PARAMETERS | | | | | | A= .0. | B= 6.33. | C= 3.26 | |
| 25 | 70 | 1 | 2 | .0 | 0 | 0 | | | | | | |
| | | 2 | 9 | .2 | 7 | 5 | | | | | | |
| | | 3 | 23 | 1.1 | 39 | 28 | | | | | | |
| | | 4 | 44 | 3.9 | 132 | 98 | 130 | 96 | 124 | 90 | 113 | 79 |
| | | 5 | 68 | 9.3 | 320 | 235 | 316 | 231 | 307 | 223 | 289 | 207 |
| | | 6 | 88 | 17.3 | 595 | 440 | 590 | 436 | 579 | 425 | 551 | 404 |
| | | 7 | 95 | 25.5 | 674 | 646 | 669 | 641 | 858 | 630 | 635 | 609 |
| | | 8 | 84 | 29.4 | 1010 | 746 | 1006 | 742 | 995 | 733 | 975 | 715 |
| | | 9 | 61 | 27.0 | 926 | 685 | 925 | 662 | 918 | 676 | 904 | 664 |
| | | 10 | 35 | 19.2 | 656 | 485 | 656 | 484 | 652 | 460 | 644 | 474 |
| | | 11 | 16 | 10.6 | 364 | 269 | 363 | 266 | 361 | 267 | 358 | 264 |
| | | 12 | 5 | 3.9 | 135 | 100 | 135 | 100 | 134 | 100 | 133 | 99 |
| | | 13 | 1 | .9 | 32 | 23 | 32 | 23 | 32 | 23 | 32 | 23 |
| | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | | 531 | 146.4 | 5094 | 3760 | 5022 | 3703 | 4960 | 3647 | 4640 | 3538 |
| | | | MEAN DIA. 7.2 INCHES. WEIBULL PARAMETERS | | | | | | A= .0. | B= 7.59. | C= 3.53 | |

| Age | Av. dom. ht. | D.b.h. per acre | Basal area | All trees, total stem | 4 -inch class and greater to o.b. tops of— | | | | | |
|-----|-----------------|--------------------|---------------|--------------------------|--|------|-------------|------|-------------|------|
| | | | | | 0. b. I. b. | | 0. b. I. b. | | 0. b. I. b. | |
| Yrs | Ft | In | No. | Ft 2 | Ft 3 | | | | | |
| 30 | 81 | 1 | 1 | .0 | 0 | 0 | | | | |
| | | 2 | 4 | .1 | 3 | 2 | | | | |
| | | 3 | II | .5 | 20 | 16 | | | | |
| | | 4 | 22 | 1.9 | 74 | 56 | 73 | n | 71 | 53 |
| | | 5 | 36 | 4.9 | 189 | 145 | 187 | 143 | 184 | 140 |
| | | 6 | 52 | 10.3 | 391 | 301 | 389 | 299 | 384 | 294 |
| | | 7 | 64 | 17.2 | 656 | 504 | 654 | 502 | 646 | 4% |
| | | 8 | 71 | 24.9 | 951 | 730 | 949 | 727 | 943 | 721 |
| | | 9 | 6s | 28.8 | 1101 | 64s | 1099 | 843 | 1094 | 638 |
| | | 10 | 53 | 29.0 | 1109 | 851 | 1107 | 849 | 1104 | 845 |
| | | 11 | 38 | 23.9 | 911 | 699 | 910 | 6% | 908 | 696 |
| | | 12 | 20 | 15.8 | 603 | 462 | 603 | 462 | 601 | 460 |
| | | 13 | 9 | 6.3 | 318 | 244 | 316 | 244 | 316 | 244 |
| | | 14 | 3 | 3.2 | 123 | 9s | 123 | 95 | 123 | 95 |
| | | 15 | 1 | 1.2 | 47 | 36 | 47 | 36 | 47 | 36 |
| | | | | | | | | | | |
| | | | 448 | 170. I | 64% | 4986 | 6459 | 4953 | 6425 | 4918 |
| | | | KAN DIA. | 8.3 INCHES. | WEIBULL PARAMETERS A=.O. B= 8.8 s. C= 3.59 | | | | | |
| | | | | | | | | | | |
| 35 | 90 | 2 | 2 | .0 | I | I | | | | |
| | | 3 | 6 | .3 | 12 | 9 | | | | |
| | | 4 | 12 | 1.0 | 43 | 34 | 42 | 34 | 41 | 33 |
| | | 5 | 20 | 2.7 | 113 | 69 | 112 | 8s | 110 | 86 |
| | | 6 | 29 | 5.7 | 23s | 185 | 234 | 184 | 232 | 182 |
| | | 7 | 39 | 10.4 | 431 | 340 | 430 | 339 | 426 | 335 |
| | | 8 | 46 | 16.1 | 663 | 522 | 662 | 520 | 659 | 517 |
| | | 9 | 51 | 22.6 | 930 | 733 | 929 | 731 | 92s | 726 |
| | | 10 | so | 27.3 | 1125 | 888 | 1124 | 887 | 1121 | 683 |
| | | 11 | 44 | 29. I | 1197 | 945 | 11% | 944 | 1194 | 941 |
| | | 12 | 3s | 27.5 | 1134 | 694 | 1133 | 893 | 1132 | 891 |
| | | 13 | 24 | 22.2 | 912 | 720 | 912 | 719 | 911 | 718 |
| | | 14 | IS | 16. I | 662 | s22 | 662 | S22 | 661 | 521 |
| | | 15 | 8 | 9.6 | 405 | 319 | 405 | 319 | 405 | 319 |
| | | 16 | 3 | 4.2 | 172 | 136 | 172 | 136 | 172 | 136 |
| | | 17 | 1 | 1.6 | 65 | 52 | 65 | 52 | 65 | 51 |
| | | | | | | | | | | |
| | | | 385 | 196.7 | 8100 | 6389 | 8079 | 6368 | 8054 | 6342 |
| | | | MEAN DIA. | 9.7 INCHES. | WEIBULL PARAMETERS A=.O. B= 10.26. C= 3.53 | | | | | |
| | | | | | | | | | | |
| 40 | 97 | 2 | 1 | .0 | I | I | | | | |
| | | 3 | 4 | .2 | 9 | 7 | | | | |
| | | 4 | 7 | .6 | 27 | 21 | 26 | 21 | 28 | 20 |
| | | 5 | II | 1.s | 66 | 53 | 65 | 52 | 64 | 51 |
| | | 6 | 17 | 3.4 | 147 | 118 | 146 | 117 | 144 | 115 |
| | | 7 | 23 | 6.2 | 269 | 217 | 2% | 216 | 265 | 213 |
| | | 8 | 29 | 10.2 | 442 | 357 | 441 | 356 | 438 | 352 |
| | | 9 | 33 | 14.7 | 636 | 513 | 636 | 512 | 633 | 508 |
| | | 10 | 36 | 19.9 | 859 | 691 | 858 | 689 | 854 | 686 |
| | | 11 | 38 | 25.2 | 1098 | 883 | 10% | 881 | 1093 | 8-n |
| | | 12 | 35 | 27.7 | 1203 | 968 | 1202 | 966 | 1199 | 963 |
| | | 13 | 31 | 28.7 | 1251 | 1006 | 1250 | 1005 | 1248 | 1002 |
| | | 14 | 25 | 26.9 | 1169 | 942 | 1169 | 941 | 1167 | 939 |
| | | 15 | 19 | 23.5 | 1020 | 621 | 1020 | 620 | 1019 | 619 |
| | | 16 | 13 | 18.3 | 794 | 639 | 794 | 639 | 794 | 636 |
| | | 17 | 8 | 12.7 | 551 | 443 | 551 | 443 | 551 | 443 |
| | | 18 | 4 | 7.1 | 309 | 249 | 309 | 249 | 309 | 249 |
| | | 19 | 2 | 4.0 | 173 | 139 | 173 | 139 | 173 | 139 |
| | | 20 | 1 | 2.2 | 96 | 71 | 96 | n | 96 | n |
| | | | | | | | | | | |
| | | | 337 | 232.7 | 10122 | 8145 | 10100 | 8123 | 10072 | 8091 |
| | | | MEAN DIA. | 11.3 INCHES. | WEIBULL PARAMETERS A = .O. B= 11.91. C= 3.40 | | | | | |
| | | | | | | | | | | |