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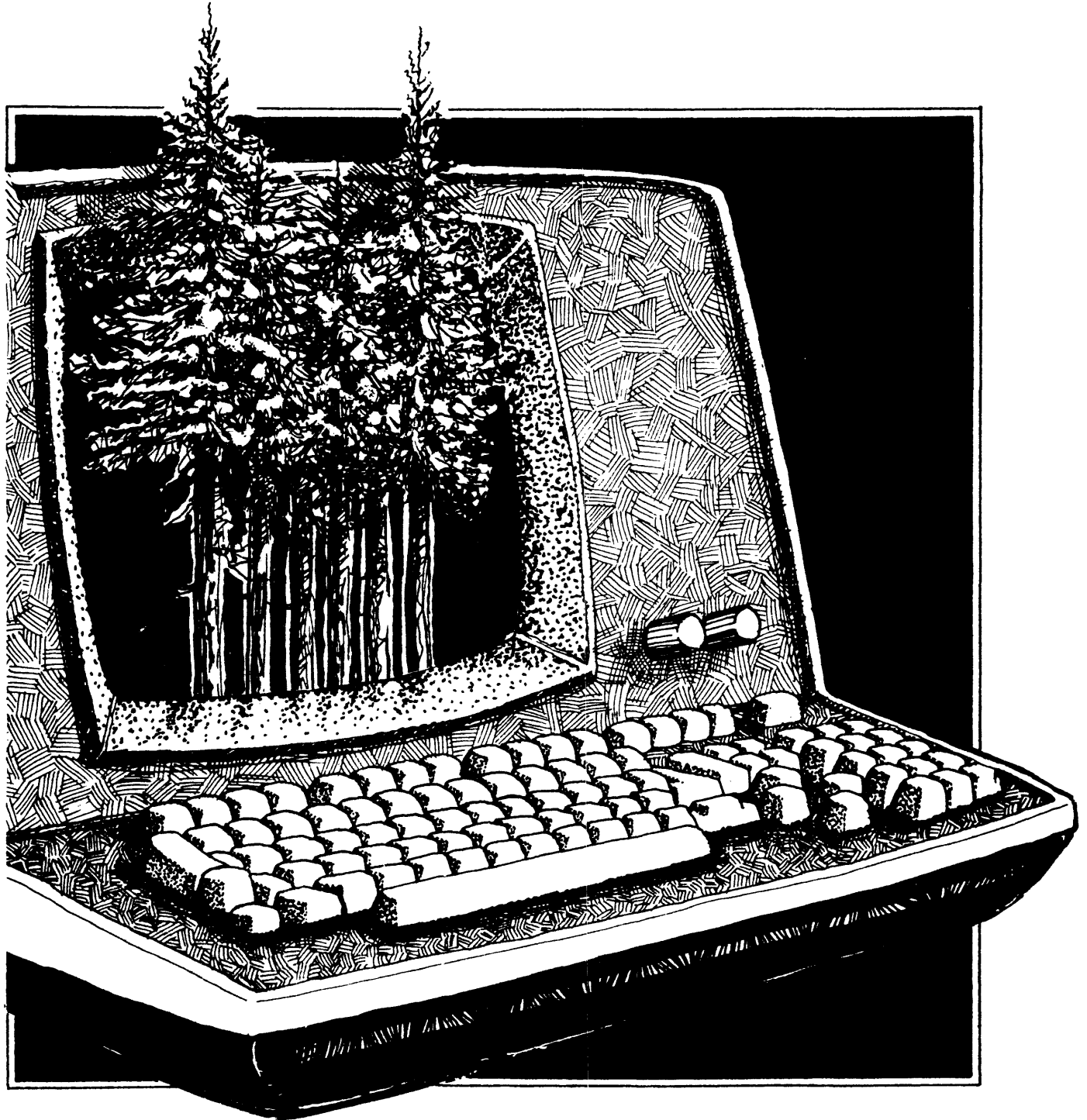
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Yield Tables for Managed Stands of Coast Douglas-Fir

Robert O. Curtis, Gary W. Clendenen, Donald L. Reukema, and
Donald J. DeMars



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Authors

ROBERT O. CURTIS and **GARY W. CLENDENEN** are mensurationists and **DONALD L. REUKEMA** is a silviculturist at the Forestry Sciences Laboratory, Pacific Northwest Forest and Range Experiment Station, 3625 93rd Avenue S.W., Olympia, Washington 98502.

DONALD J. DEMARS is a forester at the Pacific Northwest Forest and Range Experiment Station, 809 N.E. Sixth Avenue, Portland, Oregon 97232.

Abstract

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Yield tables generated by the stand simulation program DFSIM (Douglas-Fir SIMulator) are presented for a number of possible management regimes. These include a "normal" yield table; tables for stands planted or precommercially thinned to 300 and 400 trees per acre; tables for commercially thinned stands with and without prior commercial thinning; and tables illustrating the effect of fertilization with nitrogen. Guides are presented for number of trees to be planted or left after precommercial thinning and expected time of first commercial thinning.

These tables can be used as aids in choice of management regimes, guides to stocking control, and as a partial basis for estimating probable yields of future managed stands. Their limitations arise mainly from limitations of the basic data used in construction of DFSIM. Users are cautioned on some misinterpretations.

Keywords: Yield tables, simulation, growth models, fertilization (forest), thinning effects, Douglas-fir (coast), *Pseudotsuga menziesii*.

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Introduction

The stand simulation program DFSIM (Douglas-Fir SIMulator) generates yield tables for a range of initial conditions and management regimes for even-aged stands of coast Douglas-fir (*Pseudotsuga menziesii* (Mirb.) Franco var. *menziesii*) (Curtis et al. 1981). These tables provide estimates of the results of various stand management regimes and yields of managed stands. These estimates can aid forest managers in selecting management regimes best suited to their objectives and can provide guides to stocking control to achieve those regimes.

Users who have the necessary computing facilities can generate yield tables directly from DFSIM. We present a number of such tables for use by those without easy access to such facilities.

From an unlimited number of possible tables, we have chosen a limited number that we think are likely to be useful, representing either reasonable management regimes or conditions of interest for comparison purposes. We do not imply that the regimes shown are necessarily “optimum” in terms of either physical production or the economic objectives of a particular user.

Program DFSIM— The Basis of These Tables

Curtis and others (1981) give detailed information on the DFSIM stand simulation program, including a description of basic data, methods of analysis, construction of DFSIM and the assumptions involved, and applicability and limitations of the program. Here, we give only a brief and incomplete summary; the background information in the 1981 publication will be helpful to users of these tables.

DFSIM is a whole-stand model, applicable to relatively homogeneous even-aged stands that are at least 80 percent Douglas-fir by basal area (exclusive of under-story) and free from catastrophic mortality or obvious severe damage.

DFSIM estimates yields as sums of estimated increments. In turn, increment rates are estimated from (1) site index; (2) current values of stand statistics — such as age, basal area, and average diameter; and (3) past thinning and fertilization. Nitrogen is the only fertilizer element considered.

All stands are assumed to follow the height growth trends given by Bruce (1981) and shown in the yield tables. Although neither our definition of site index nor Bruce's height-growth curves are identical with those of King (1966), which are in widespread use, differences are of little practical importance and site index estimates made by King's system may be used to enter the DFSIM program and tables generated by DFSIM.

DFSIM was developed from remeasured plot data contributed by many organizations throughout the Pacific Northwest.¹ There was a reasonably good distribution of data across sites and ages for all plots combined, but distributions by stand origin and treatment class were much less satisfactory. There was little data for plantations older than about 40 years; limited information on development of fertilized stands beyond the first 4 years after treatment; and little data for older stands known to have developed from low initial densities. Some “thinned” stands represented treatments that most foresters today would not recommend. Estimates for later development of managed stands are necessarily based on analogies with behavior of existing stands, whose early development probably differed from that expected in future managed stands.

For these and similar reasons, these tables may underestimate the yields possible under intensive management and optimum conditions.

The estimates are based on relatively small research plots, selected for initial uniformity and relative freedom from major damage. Their application to substantial areas will require some allowance for nonproductive inclusions and for damage and mortality other than suppression losses and occasional death of scattered dominant and codominant trees. No firm quantitative basis for such allowances can be given. It seems evident, however, that future intensively managed stands will be much more uniform and less prone to damage and irregular mortality than existing natural stands. Hence, differences between yield table estimates and actual yields should be much reduced (Bruce 1977), relative to past experience in attempting to apply normal yield tables to natural stands.

Despite some shortcomings, the DFSIM tables represent our best current estimates of regional average stand development under a range of initial conditions and treatment regimes. Individual stands and individual locations may differ from regional average trends.

Modification of these estimates can be expected as more data from truly managed stands become available.

¹ Data used were contributed by British Columbia Forest Service; Bureau of Land Management, U.S. Department of the Interior; Canadian Forestry Service; Crown Zellerbach Corporation; International Paper Company; MacMillan-Bloedel Ltd.; Oregon Department of Forestry; Oregon State University; Pacific Northwest Forest and Range Experiment Station, Forest Service, U.S. Department of Agriculture; Roseburg Lumber Company; University of Washington (including cooperators in the Regional Forest Nutrition Research Program); Washington Department of Natural Resources; and Weyerhaeuser Company.

Table Formats and Definitions of Terms

The yield tables generated by DFSIM consist of four sections:

1. A descriptive heading that defines the type of stand and treatment regime.
2. Statistics for total stand (all trees 1.6 inches d.b.h. and larger).
3. Statistics for all trees 5.6 inches d.b.h. and larger (optional—omitted from some tables).
4. Statistics for all trees 7.6 inches d.b.h. and larger (optional—omitted from some tables).

Definitions and Abbreviations in the Tables

SITE INDEX is the average height at age 50 years at b.h. (breast height) of the largest 40 (by diameter) stems per acre. (For fertilized stands, this is the height that the stand would have attained if it had not been fertilized.)

STAND ORIGIN is shown as natural or planted to a specific number of stems per acre. Number of trees “planted” is the total number of successfully established stems (those surviving to attain a height of at least 4.5 feet), including natural fill-in trees.

A **PRECOMMERCIAL THINNING** is a thinning made when the average diameter of the stand is less than 5.6 inches. The number of residual stems specified after precommercial thinning includes all live stems regardless of diameter.

A **COMMERCIAL THINNING** is a thinning made when the average diameter of the stand is 5.6 inches or larger.

TOT AGE YRS = age from seed.

BH AGE YRS = years since attaining a top height of 4.5 feet.

H40 FEET = top height = height of the mean of the largest (by diameter) 40 stems per acre.

LOREY HT FEET = height of tree of mean volume (almost the same as the more commonly used height of tree of mean basal area, but more easily calculated in DFSIM).

DBH INCH = quadratic mean d.b.h. (=d.b.h. of tree of mean basal area) of all trees 1.6 inches d.b.h. and larger.

BASAL AREA SQ FT = basal area in square feet per acre of all trees 1.6 inches d.b.h. and larger.

TREES PER ACRE = number of trees per acre 1.6 inches d.b.h. and larger.

CVTS² PER ACRE = total volume in cubic feet per acre of all stems 1.6 inches d.b.h. and larger, including stump and tip.

² Symbols and definitions for total and merchantable volumes as given by Turnbull et al. (1972).

CAI NET CVTS = net current annual increment in cubic feet per acre per year of total volume of all stems 1.6 inches d.b.h. and larger.

MAI CVTS GROSS 1.6+ = gross mean annual increment in cubic feet per acre per year of total volume of all trees 1.6 inches d.b.h. and larger. This is calculated as:

$$\frac{\left[\begin{array}{c} \text{total volume of} \\ \text{live stand} \end{array} \right] + \left[\begin{array}{c} \text{cumulative volume of} \\ \text{commercial thinnings} \end{array} \right] + \left[\begin{array}{c} \text{cumulative volume of} \\ \text{mortality} \end{array} \right]}{[\text{total age}]} ;$$

where, mortality occurring before the stand attained an average diameter of 5.6 inches is omitted.

MAI CVTS NET 1.6+ = net mean annual increment in cubic feet per acre per year of total volume of all stems 1.6 inches d.b.h. and larger. This is calculated as:

$$\frac{[\text{total volume of live stand}] + [\text{cumulative volume of commercial thinnings}]}{[\text{total age}]}$$

MAI CV4 NET 5.6+ = net mean annual increment in cubic feet per acre per year of volume to a 4-inch top d.i.b. (diameter inside bark) excluding stump of all stems 5.6 inches d.b.h. and larger.

MAI CV4 MET 7.6+ = net mean annual increment in cubic feet per acre per year of volume to a 4-inch top d.i.b. of all stems 7.6 inches d.b.h. and larger.

Entries in lines beginning **YEARLY MORTALITY** give statistics for trees dying in the year immediately preceding the age indicated on the next line.

BEFORE gives the indicated statistics for the stand before thinning.

CUT gives the indicated statistics for trees removed in the current thinning.

RESIDUAL gives the indicated statistics for trees remaining after the current thinning.

SUM CUTS gives the cumulative totals of the indicated statistics for all trees removed in commercial thinnings up to and including the current thinning.

SUM MORTALITY gives cumulative totals for all trees that died after the year in which the stand attained a quadratic mean diameter of 5.6 inches.

HARVEST gives statistics for the stand in the year of final harvest.

SUM CUTS gives statistics for the sum of the harvest and all prior commercial thinnings, if any.

SUM MORTALITY gives statistics for the sum of all mortality that has occurred since the stand attained a quadratic mean d.b.h. of 5.6 inches.

Column headings for stand 5.6 inches plus (trees 5.6 inches d.b.h. and larger) correspond to similar headings for the total stand, except for the additional heading **CUBIC FEET PER ACRE 4-INCH TOP**.

Column headings for stand 7.6 inches plus (trees 7.6 inches d.b.h. and larger) correspond to similar headings for the stand 5.6 inches and larger, with the following additions:

CV6 = volume in cubic feet per acre to a 6-inch top d.i.b., excluding stump.

IV6 = volume in board feet, International 1/4-inch rule, to a 6-inch top d.i.b., for 16-foot log lengths.

SV6 = volume in board feet, Scribner rule, to a 6-inch top d.i.b., for 16-foot log lengths.³

The Yield Tables

We give yield tables for sites I through IV (site indexes 145 to 85) only. We do not provide tables for site V (site index 65) because the data contain few plots on very low sites that have been observed for a sufficiently long time to show effects of management.

We show harvest age as 100 years. We do not imply that this is a recommended rotation. Most users will want values for other rotations, usually shorter. We show yields to age 100 because this is about the upper limit of ages for which estimates can reasonably be made using DFSIM for any of the regimes, and because space limitations prevent including tables for all rotation lengths of possible interest.

To conserve space, we show statistics at 5-year intervals only, plus cutting ages. We do not give summary tables for stands 5.6 inches plus and 7.6 inches plus for regimes that do not include commercial thinning; such statistics for the arbitrary "harvest age" of "100 years only" would not be useful.

³ An approximate conversion to 32-foot Scribner (SV32) can be made by entering number (N), CV4, SV6, and average diameter (D) of trees 7.6 inches and larger in the following equations (Chambers and Foltz 1979):

$$T = \frac{0.91273 (CV4/N)}{0.005454 (D^2) - 0.087266} ,$$

$$SV32 = SV6 [1.001491 - 6.924097/T + 0.00001351(D^2)].$$

In addition to the basic yield table which gives statistics for the stand 1.6 inches and larger at specified ages, DFSIM produces summary tables for the stands 5.6 inches plus and 7.6 inches plus (when requested) at times of cutting only. Most of these summary values for other ages, as well as certain other summary statistics for the stand 1.6 inches plus, can be calculated from values shown in the basic table.

1. Gross current annual increment in CVTS for stems 1.6 inches d.b.h. and larger is the sum of "CAI NET CVTS" plus "mortality CVTS" (preceding year).
2. Gross yield in CVTS for stems 1.6 inches d.b.h. and larger, including past commercial thinnings but excluding precommercial thinnings and mortality that occurred before the stand attained 5.6 inches average diameter, can be calculated as the product of "MAI CVTS GROSS 1.6 + " and total age.
3. Net production (live stand plus sum of past commercial thinnings) in CV4 for stems 5.6 inches d.b.h. and larger, and in CV4 for stems 7.6 inches d.b.h. and larger, can be obtained as the product of the respective MAI's and total age.
4. Diameters, basal areas, and volumes for the total stand at any given age can be converted to corresponding values for stands 5.6 inches and larger and 7.6 inches d.b.h. and larger, and to corresponding merchantable volume units, by use of conversion ratio equations given by Williamson and Curtis (1980) and a programable calculator. Corresponding numbers of trees can then be calculated from diameters and basal areas.

This limited number of tables cannot be expected to meet the needs and interests of all users, but they do represent regimes that we consider reasonable and they do illustrate results predicted by DFSIM from several contrasting management regimes.

**Group A. Stands Without
Commercial Thinning
or Fertilization
(Tables 1 to 5)**

Table 1 corresponds to a conventional normal yield table. It is derived from control plots in research studies of thinning and fertilization and represents stands subjectively chosen for good stocking and freedom from injury and observed in most cases for relatively short periods.

The table is analogous to the table of McArdle et al. (1961) but is not directly comparable because of differences in trends of height over age. In general, our table shows a somewhat slower reduction in number of stems associated with somewhat higher densities and volumes and somewhat lower average diameters at advanced ages. These differences probably arise at least in part from differences in plot sizes and plot selection procedure, and from use of an upper density limit in the DFSIM stand simulator (based on an average of the older untreated control plots) which is somewhat higher than the maximum density shown in McArdle et al. (1961).

Like any normal yield table, this table represents **near-maximum** rather than average density and production of wild stands and excludes much of the stand damage and irregular mortality that occur in unmanaged stands. Volumes and basal areas are considerably higher and diameters generally lower than corresponding statistics for average wild stands as found in inventories. Therefore, comparisons of this table with tables for managed stands do not provide a valid measure of potential gains from management, with the possible exception of the special case of stands that were “normal” before treatment. A more meaningful comparison is that of managed stand yields with average production of existing wild stands of similar age, as estimated by regional inventories.

The new table is consistent with other DFSIM tables in height growth trend and method of construction. Although the table provides estimates of production in undamaged high density natural stands, these estimates have little direct usefulness in intensive management.

The most useful value provided by the table is an estimate of gross production of such stands, which is often regarded as an upper limit on the production potentially attainable under management without fertilization or genetic improvement.

Tables 2 and 3 represent stands planted with 400 and 300 trees per acre, with no subsequent treatment.

Number per acre indicated is the number of successfully established stems, which is often not the same as the number actually planted. These are assumed to be reasonably well distributed, without obvious holes in the stand.

Most plantation data lacked information on site preparation, early vegetative competition, animal damage, and similar factors that influence early development. Many plantations had had considerable numbers of natural fill-in trees of somewhat younger ages. Although plantations with known high early mortality were excluded, early growth in these older plantations was probably often less than that attainable with intensive site preparation, early weed control, and similar measures. The somewhat more rapid early development shown in tables 4 and 5 for stands precommercially thinned at about 15 feet in height is probably a reasonable estimate for plantations established under optimum conditions.

Since the basic data included few plantations over 40 years of age, estimates beyond this age are extrapolations based on relationships existing in well-stocked natural stands. The little data available from older plantations suggest that these uniform stands may not “self-thin” in a manner comparable to natural stands but may often show a reduction in growth after reaching near-maximum density, followed by later groupwise mortality and damage by wind, snow, and ice breakage (Reukema 1979). Therefore, there is considerable uncertainty in these projections of untreated plantations to advanced ages and high stand densities.

Planting without subsequent treatment does not appear to be a rational management regime except for stands to be harvested relatively early or possibly those on poor sites.

Because basic data were lacking for stands planted to less than 300 stems per acre, we give no estimates for wider spacings.

Tables 4 and 5 represent stands precommercially thinned to 400 and 300 stems per acre, with no subsequent treatment.

The indicated age of precommercial thinning is selected to correspond to a top height (H40) of about 15 feet at the time of precommercial thinning. Other choices would lead to slightly different results.

The indicated number of residual trees per acre is for all live stems.

As with plantations, extension of these estimates to advanced ages — or to near-maximum densities — has little basis in observation and is an extrapolation based on relationships existing in well-stocked natural stands. Since such stands will probably be more uniform than untreated plantations, the questions raised in connection with tables 2 and 3 concerning probable “self-thinning” and mortality patterns apply even more to such extrapolations to high densities and older ages for precommercially thinned stands receiving no subsequent treatment.

Precommercial thinning without subsequent treatment is a rational practice only for short rotations, poor sites, and inaccessible areas. Precommercial thinning to fewer than 300 stems per acre is reasonable, especially if no subsequent thinnings are planned, but our data give little basis for estimates.

Differences in estimates for planted stands with early precommercial thinning versus natural stands with early precommercial thinning are small, and tables 4 and 5 may be used for either. Precommercial thinning in a plantation does imply that the original plantation had considerably more stems than remained after thinning.

Groups B and C. Stands With Commercial Thinning Only (Tables 6-8) and Stands With Both Precommercial and Commercial Thinning (Tables 9 and 10)

Tables 6, 7, and 8 represent stands initially the same as those in tables 1, 2, and 3, but with later precommercial thinning.

Tables 9 and 10 represent stands initially the same as those in tables 4 and 5, but with later commercial thinning.

The thinning regime is one we consider reasonable but which is not necessarily optimum for any specific situation. It is defined by subjective “best judgment” relationships which specify (1) quadratic mean diameter of cut trees as a function of stand quadratic mean diameter before cutting (fig. 1) and (2) residual and maximum basal areas as functions of quadratic mean diameter and stand age. Further restrictions in the tables are that residual basal area after any commercial thinning may not be less than that after the next prior commercial thinning, and that no commercial thinning may remove more than one-third of the prethinning basal area.

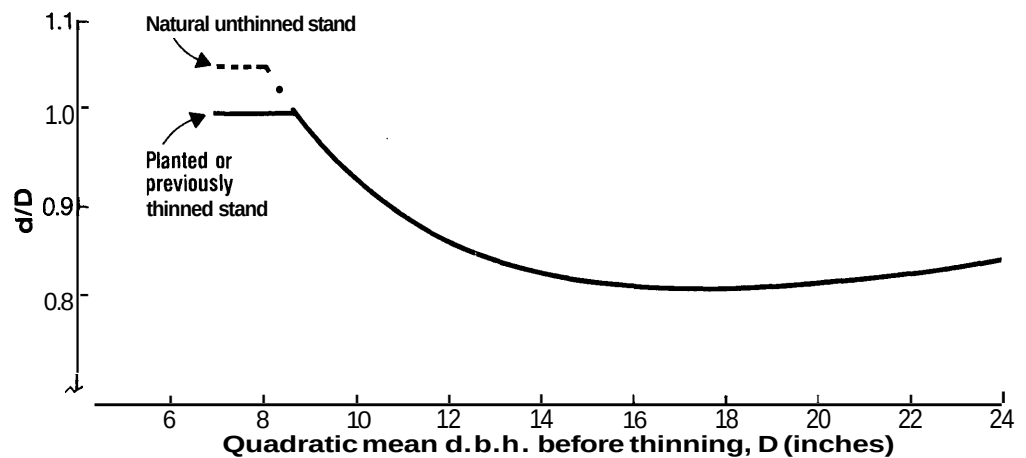


Figure 1.—Ratio of diameter of cut trees to stand diameter before thinning (d/D) as a function of stand quadratic mean diameter before thinning.

The “harvest age” of 100 years is arbitrary and superimposed on the thinning regime. Normally, thinnings would not be made close to harvest age, and stand density would be allowed to build up to a somewhat higher level than shown, prior to final harvest. This is not done in these tables because the 100-year “harvest age” is used merely as a convenient cutoff point.

Group D. Regimes With Nitrogen Fertilization (Tables 11 and 12)

Although we had a substantial body of data on short-term response of Douglas-fir to single applications of nitrogen fertilizer, there was only limited information on duration of response, possible interactions with other stand treatments, and effects of repeated applications. Among other assumptions, DFSIM assumes equal percentage responses in increment rates to each successive application of fertilizer on a given site. This is a possibly unrealistic assumption that becomes increasingly uncertain as the number and frequency of successive applications increase.

Therefore, DFSIM estimates for average long-term response to repeated fertilization, or to repeated fertilization combined with thinning, should be regarded as rather speculative extrapolations even though short-term predictions for response to initial applications of fertilizer may appear reasonably consistent with other available information.

Both because of these uncertainties and because of the large number of possible combinations of fertilizer, spacing, and thinning treatments, we give tables for only two of the many possible regimes which include fertilization. These estimates appear plausible though somewhat more optimistic than other available estimates⁴ (Bruce et al. 1977), and they suffice to illustrate the general nature of the effects of fertilizer predicted by DFSIM.

Within the next few years, the additional data now accumulating should make possible much improved estimates for the long-term effects of fertilization and the possible relationships between response to fertilization and other stand treatments.

Table 11 corresponds to table 5, with the addition of one application of 200 pounds of nitrogen per acre when the stand average diameter is about 6 inches.

Table 12 corresponds to table 10, with the addition of three successive applications of 200 pounds of nitrogen per acre. The initial fertilization is made when stand average diameter is about 6 inches. This is followed by two subsequent applications at 15-year intervals.

Some Cautions on Comparisons

Many forest managers are interested in estimates of prospective gains from a given management regime in comparison with possible alternative regimes. DFSIM (and these DFSIM tables) can provide helpful information; however, the tables can be seriously misinterpreted.

Simplistic comparisons of estimated managed stand yields with “normal” stand yields are not in general a valid measure of gains from management practices. On the contrary, such comparisons will generally result in gross underestimates of the gains from management.

The principal reason for this is the fact that the “normal” yield table does not represent an average of unmanaged stands as they exist, but only of the best, highly selected areas. In contrast, under intensive management the conditions represented by the yield tables for managed stands will probably be approached over quite extensive areas.

A secondary reason is that estimated net yield shown by the “normal” tables is in large part determined by the position of the maximum density limit, which is not a precisely determined value. Relatively small errors in the position of this limit have a considerable effect on any comparisons. We think the principal estimate of value provided by the “normal” table is the estimate of gross yield, which is not very sensitive to the position of this limit.

We also have reservations about comparisons of estimates for untreated plantations with commercially thinned plantations; or of stands receiving only precommercial thinning with stands treated with both precommercial thinning and later commercial thinning.

⁴ Regional Forest Nutrition Research Project — Biennial Report 1978-80. College of Forest Resources, University of Washington, Seattle. Nov. 1980. 44 p.

The uncertainty here concerns the behavior of these uniform stands if allowed to reach the maximum density limit. Not only do possible errors in positioning this limit affect production estimates for stands without commercial thinning, but there is reason to believe (Reukema 1979) that very uniform stands that are allowed to reach maximum density may not show good differentiation and are likely to go through a period of retarded growth and to become susceptible to groupwise mortality and damage. Hence, yield estimates for unthinned plantations, or for precommercially thinned stands without subsequent commercial thinning, may be considerably in error for age and density combinations outside the range of the data.

We see no intrinsic difficulties in comparisons of unthinned plantations, or of precommercially thinned stands without commercial thinning, for different initial spacings (or with comparisons of such stands with similar stands receiving later commercial thinning); provided that comparisons are limited to the approximate range of ages and initial numbers present in our basic data or to limited extrapolations that do not reach near-maximum stand densities (that is, $RD^5 = (\text{basal area})/\sqrt{d.b.h.}$ less than about 65).

We also see no particular difficulty with comparisons among the regimes involving commercial thinning. Although we give only three such regimes, DFSIM can generate additional regimes that could reasonably be compared. These estimates assume that stands follow the height-growth trends of Bruce (1981), which are almost the same as those of King (1966), which are now quite widely used for site index estimates. The available evidence indicates that these height-growth curves are a better regional average than the McArdle et al. (1961) curves widely used in the past. Individual stands will not necessarily follow these curves, however, and differences in height growth will be accompanied by corresponding differences in other stand values. Use of the Bruce or King curves introduces considerable differences from previous estimates made using the McArdle curves.

Users accustomed to site index (SI) estimates made using the McArdle site index curves should remember that there is no direct one-to-one conversion between systems. For example, a stand that is site index 140 by McArdle's curves when measured at age 100 corresponds to site index 104 in King's system, a midsite III. A stand that is site index 140 by McArdle's curves when measured at age 20 corresponds to site index 119 in King's system, a low site II. The conversion depends on age according to the equation (King 1966):

$$SI_{100} = 21.5 - 0.18127(\text{age}) + 0.72114(SI_{100}).$$

Therefore, a person who wishes to use these tables but who has available only an SI_{100} estimate made using McArdle's system should enter the above conversion equation using an age corresponding to the age of the stand when the original SI_{100} estimate was made.

⁵ $RD = (\text{basal area})/\sqrt{d.b.h.}$ is a measure of relative density, discussed by Curtis (in press). Except for a scale factor, RD is essentially the same as such common measures as basal area normality calculated from table 25 in McArdle et al. (1961), and Reineke's (1933) stand density index. A value of 50 (RD_{50}) approximates the beginning of suppression-related mortality.

Initial Spacing, Precommercial Thinning, and Timing of the First Commercial Thinning

Managers must often specify the number of trees to be planted per acre or the number to be left after precommercial thinning (PCT). This decision is influenced by expected mortality and by desired stand diameter at the time of the first commercial thinning. An estimate of years required to reach this diameter is also needed.

The graphs in figure 2 provide estimates, by site, based on DFSIM. The notation PCT300 indicates a stand precommercially thinned to 300 residual trees per acre. The intersection of the diameter-age curve for a given residual number of stems with the hatched area bounded by the RD45 and RD50 lines (see footnote 5) indicates estimated age and quadratic mean stand diameter at first commercial thinning. Values shown assume that precommercial thinning is done at a top height of 15 feet. Stands precommercially thinned at top heights greater than 15 feet and most planted stands with a comparable number of established stems but not precommercially thinned will reach this point slightly later.

Although these guides are presented in a different form from those given by Reukema (1975), neither the basic thinning philosophy nor the quantitative estimates are materially different. The basic assumptions are:

1. There is a minimum average diameter at which commercial thinning becomes feasible. The user of these or other guides must make an estimate of this diameter for each situation and then select the corresponding required initial number of trees.
2. The number of established stems after planting, or of residual stems after precommercial thinning, should be low enough that the stand will not attain a density that causes serious reduction in the live crown or slowing of growth of dominant and codominant trees before the minimum average diameter for the first commercial thinning is reached. The number should not be much below this maximum because of the risks of unforeseen mortality and of loss of increment caused by incomplete occupancy of growing space.
3. The upper limit of allowable density before the first commercial thinning corresponds to a value of about $RD = 50$. (This is about 75 percent of "normal" according to McArdle et al. 1961.)

Metric Equivalents

1 inch = 2.540 centimeters
1 foot = 0.3048 meter
1 square foot = 0.09290 square meter
1 cubic foot = 0.02832 cubic meter
1 square foot per acre = 0.2296 square meter per hectare
1 cubic foot per acre = 0.06997 cubic meter per hectare

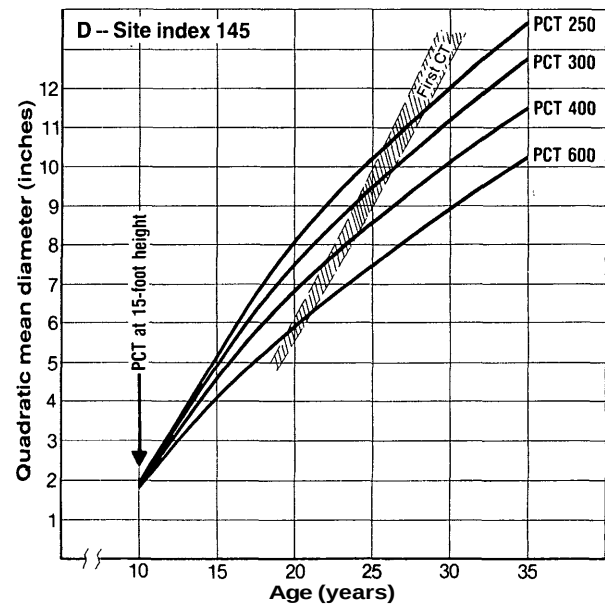
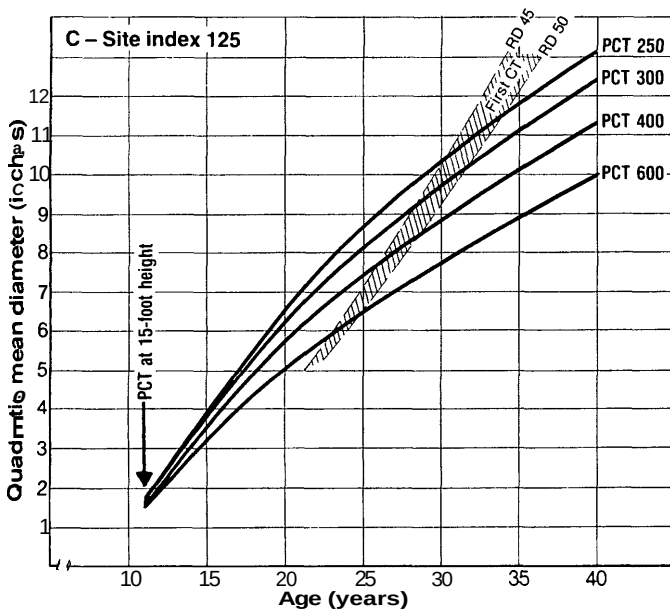
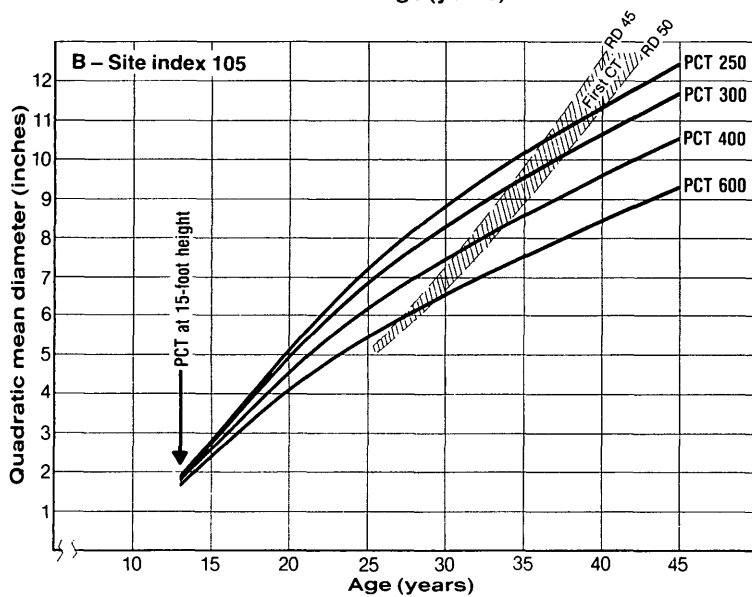
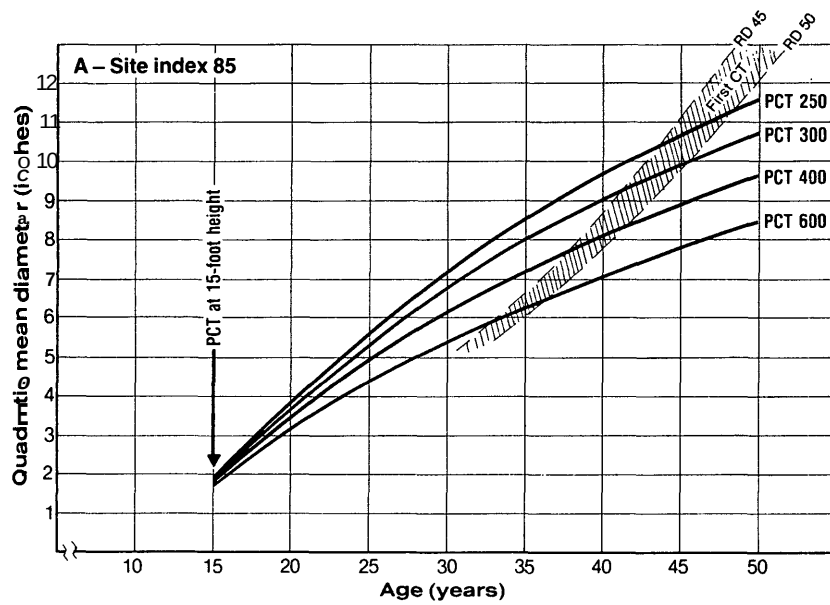


Figure 2.—Years required to first commercial thinning (CT) and corresponding attained stand quadratic mean diameter, for stands precommercially thinned (PCT) to the indicated number of stems at top height of 15 feet: A, Site index 85; B, site index 105; C, site index 125; D, site index 145.

Tables

DFSIM VERSION 1.0
TABLE 1A. -- NATURAL ("NORMAL"), NO TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

STAND ORIGIN --- NATURAL.
THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+
								5.6+	7.6+
30 21	45.9	35.8	4.20	109.4	1135.	1756.	161.		59.
35 26	54.4	43.1	4.94	134.8	1014.	2570.	162.		73.
40 31	62.0	49.8	5.64	154.3	883.	3364.	156.		84.
YEARLY MORTALITY			4.03	2.0	23.	50.			
45 36	68.9	56.1	6.38	171.1	771.	4160.	152.	97.	92.
YEARLY MORTALITY			4.73	2.3	19.	63.			
50 41	75.2	61.8	7.09	183.2	668.	4868.	136.	107.	97.
YEARLY MORTALITY			5.32	2.4	15.	69.			
55 46	80.8	67.0	7.79	192.9	584.	5516.	126.	116.	100.
YEARLY MORTALITY			5.88	2.3	12.	72.			
60 51	86.0	71.7	8.46	201.5	516.	6121.	118.	122.	102.
YEARLY MORTALITY			6.44	2.3	10.	74.			
65 56	90.7	76.0	9.11	209.3	462.	6692.	112.	127.	103.
YEARLY MORTALITY			7.01	2.2	8.	75.			
70 61	95.0	79.9	9.75	216.6	418.	7231.	105.	131.	103.
YEARLY MORTALITY			7.59	2.2	7.	76.			
75 66	99.0	83.5	10.37	223.4	381.	7741.	100.	134.	103.
YEARLY MORTALITY			8.18	2.1	6.	77.			
80 71	102.7	86.8	10.98	229.9	350.	8224.	94.	137.	103.
YEARLY MORTALITY			8.78	2.1	5.	78.			
85 76	106.1	89.8	11.57	236.1	324.	8679.	89.	138.	102.
YEARLY MORTALITY			9.39	2.0	4.	79.			
90 81	109.2	92.6	12.14	242.1	301.	9110.	84.	140.	101.
YEARLY MORTALITY			10.00	2.0	4.	80.			
95 86	112.2	95.1	12.71	247.9	281.	9517.	80.	141.	100.
YEARLY MORTALITY			10.61	2.0	3.	80.			
100 91	114.9	97.4	13.26	253.4	264.	9901.	75.	142.	99.
100 91									
HARVEST	114.9	97.4	13.26	253.4	264.	9901.	75.	142.	99.
SUM CUTS				253.4	264.	9901.			
SUM MORTALITY				128.5	624.	4284.			

D F S I M VERSION 1.0
TABLE 1B. -- NATURAL ("NORMAL") , NO TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

STAND ORIGIN --- NATURAL.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.

NO COMMERCIAL THINNING TO BE DONE.

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	LOREY HT FEET	BASAL DBH INCH	BASAL AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	*MAI GROSS 1.6+	CVTS* NET 1.6+	***MAI ****NET**** 5.6+	CV4** 7.6+
25	17	46.4	36.4	4.25	111.2	1128.	1815.	220.		73.		
30	22	58.0	46.6	5.26	144.3	955.	2958.	231.		99.		
YEARLY MORTALITY				3.0	2.3	29.	56.					
35	27	68.4	55.9	6.24	169.3	796.	4117.	226.	122.	118.	86.	61.
YEARLY MORTALITY				4.68	3.0	25.	84.					
40	32	77.9	64.4	7.17	185.4	661.	5149.	197.	142.	129.	104.	84.
YEARLY MORTALITY				5.34	2.9	19.	91.					
45	37	86.4	72.2	8.07	197.4	556.	6090.	183.	157.	135.	116.	102.
YEARLY MORTALITY				5.97	2.7	14.	94.					
50	42	94.1	79.4	8.93	207.6	477.	6976.	173.	168.	140.	124.	114.
YEARLY MORTALITY				6.61	2.6	11.	95.					
55	47	101.1	85.9	9.76	216.7	418.	7816.	164.	177.	142.	112.	122.
YEARLY MORTALITY				7.26	2.4	9.	98.					
60	52	107.5	91.8	10.55	225.1	371.	8612.	156.	183.	144.	132.	127.
YEARLY MORTALITY				7.93	2.4	7.	97.					
65	57	113.3	97.3	11.32	232.9	333.	9366.	147.	188.	144.	134.	130.
YEARLY MORTALITY				3.61	2.3	6.	98.					
70	62	118.7	102.2	12.06	240.3	303.	10079.	139.	192.	144.	135.	131.
YEARLY MORTALITY				9.31	2.2	5.	99.					
75	67	123.7	106.8	12.78	247.3	278.	10751.	131.	195.	143.	136.	132.
YEARLY MORTALITY				10.01	2.2	4.	100.					
80	72	128.2	111.0	13.48	253.9	256.	11386.	124.	197.	142.	135.	131.
YEARLY MORTALITY				10.72	2.1	3.	101.					
85	77	132.5	114.8	14.15	260.2	238.	11984.	117.	198.	141.	135.	131.
YEARLY MORTALITY				11.44	2.1	3.	102.					
90	82	136.5	118.3	14.81	266.3	222.	12548.	110.	199.	139.	133.	130.
YEARLY MORTALITY				12.16	2.1	3.	103.					
95	87	140.2	121.6	15.46	272.1	209.	13078.	104.	199.	138.	132.	130.
YEARLY MORTALITY				12.89	2.1	2.	104.					
100	92	143.6	124.5	16.08	277.7	197.	13577.	97.	200.	135.	130.	129.
100 92												
HARVEST		143.6	124.5	16.08	277.7	197.	13577.	97.	200.	135.	130.	129.
SUM CUTS					277.7	197.	13577.					
SUM MORTALITY					162.1	688.	6384.					

D F S I M VERSION 1.0
TABLE 1C. — NATURAL ("NORMAL") , NO TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

STAND ORIGIN --- NATURAL.
THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT AGE	BH AGE	LOREY HT40 FEET	LOREY HT FEET	BASAL DBH INCH	BASAL AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	*MAI GROSS 1.6+	CVTS* NET 1.6+	**MAI *****NET**** 5.6+	CV4** 7.6+		
20	13	42.3	33.0	3.91	97.5	1167.	1455.	258.		73.				
25	18	57.2	46.0	5.19	142.3	968.	2885.	298.		115.				
YEARLY MORTALITY				3.93	3.0	36.	79.							
30	23	70.7	58.2	6.43	173.7	770.	4393.	289.	153.	146.	110.	80.		
YEARLY MORTALITY				4.89	3.6	28.	111.							
35	28	83.1	69.4	7.58	191.7	612.	5719.	256.	183.	163.	136.	116.		
YEARLY MORTALITY				5.60	3.3	19.	115.							
40	33	94.2	79.7	8.68	205.1	499.	6956.	243.	206.	174.	153.	140.		
YEARLY MORTALITY				6.29	3.0	14.	115.							
45	38	104.3	89.2	9.72	216.5	420.	8137.	232.	222.	181.	164.	155.		
YEARLY MORTALITY				7.01	2.8	10.	115.							
50	43	113.5	97.9	10.72	226.7	362.	9265.	221.	234.	185.	171.	164.		
YEARLY MORTALITY				7.75	2.6	8.	116.							
55	48	121.9	105.9	11.67	236.0	318.	10338.	210.	242.	188.	176.	169.		
YEARLY MORTALITY				8.51	2.5	6.	117.							
60	53	129.5	113.2	12.58	244.6	284.	11357.	199.	249.	189.	179.	172.		
YEARLY MORTALITY				9.28	2.4	5.	118.							
65	58	136.6	120.0	13.45	252.7	256.	12321.	188.	254.	190.	180.	174.		
YEARLY MORTALITY				10.08	2.3	4.	120.							
70	63	143.1	126.2	14.29	260.2	234.	13232.	178.	257.	189.	181.	175.		
YEARLY MORTALITY				10.88	2.2	3.	121.							
75	68	149.1	131.9	15.10	267.3	215.	14091.	168.	259.	188.	180.	175.		
YEARLY MORTALITY				11.70	2.2	3.	123.							
80	73	154.7	137.1	15.88	274.0	199.	14900.	158.	261.	186.	179.	175.		
YEARLY MORTALITY				12.52	2.2	3.	125.							
85	78	159.9	142.0	16.64	280.4	186.	15662.	149.	262.	184.	177.	175.		
YEARLY MORTALITY				13.34	2.2	2.	126.							
90	83	164.7	146.5	17.38	286.5	174.	16378.	140.	262.	182.	175.	174.		
YEARLY MORTALITY				14.17	2.1	2.	127.							
95	88	169.3	150.7	18.09	292.4	164.	17052.	131.	262.	179.	172.	172.		
YEARLY MORTALITY				15.00	2.1	2.	128.							
100	93	173.6	154.5	18.79	298.0	155.	17685.	123.	262.	177.	170.	170.		
100 93														
HARVEST				173.6	154.5	18.79	298.0	155.	17685.	123.	262.	177.	170.	170.
SUM CUTS						298.0	155.	17685.						
SUM MORTALITY						187.4	722.	8503.						

D F S I M VERSION 1.0
TABLE 1D. -- NATURAL ("NORMAL") , NO TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

STAND ORIGIN -- NATURAL.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.

NO COMMERCIAL THINNING TO BE DONE.

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	#MAI	CVTS*	**MAI	CV4**	
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****		
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+	
20	14	51.9	41.4	4.72	127.8	1053.	2348.	346.		117.			
YEARLY MORTALITY				3.62	3.1	43.	78.						
25	19	68.8	56.6	6.24	170.4	802.	4202.	374.	173.	16%.	123.	87.	
YEARLY MORTALITY				4.88	4.4	34.	136.						
30	24	84.3	70.8	7.65	193.1	606.	5873.	321.	221.	196.	163.	140.	
YEARLY MORTALITY				5.64	3.8	22.	138.						
35	29	98.4	83.9	8.98	208.8	475.	7442.	309.	254.	213.	189.	175.	
YEARLY MORTALITY				6.40	3.3	15.	136.						
40	34	111.1	96.1	10.23	221.9	388.	8959.	299.	277.	224.	205.	195.	
YEARLY MORTALITY				7.19	3.0	10.	135.						
45	39	122.8	107.4	11.42	233.6	328.	10420.	287.	294.	232.	216.	207.	
YEARLY MORTALITY				8.01	2.7	8.	135.						
50	44	133.4	117.8	12.54	244.0	284.	11819.	275.	306.	236.	223.	214.	
YEARLY MORTALITY				8.85	2.6	6.	136.						
55	49	143.1	127.4	13.61	253.6	251.	13151.	261.	315.	239.	228.	219.	
YEARLY MORTALITY				9.72	2.5	5.	138.						
60	54	152.1	136.2	14.62	262.4	225.	14416.	248.	321.	240.	230.	222.	
YEARLY MORTALITY				10.61	2.4	4.	140.						
65	59	160.4	144.5	15.59	270.6	204.	15613.	234.	325.	240.	231.	225.	
YEARLY MORTALITY				11.51	2.3	3.	142.						
70	64	168.1	152.1	16.53	278.3	187.	16744.	221.	328.	239.	230.	226.	
YEARLY MORTALITY				12.43	2.3	3.	145.						
75	69	175.2	159.2	17.42	285.5	172.	17812.	208.	330.	237.	228.	227.	
YEARLY MORTALITY				13.34	2.2	2.	147.						
80	74	181.9	165.7	18.29	292.3	160.	18817.	196.	331.	235.	226.	226.	
YEARLY MORTALITY				14.27	2.2	2.	149.						
85	79	183.1	171.9	19.13	298.7	150.	19764.	185.	332.	233.	223.	223.	
YEARLY MORTALITY				15.20	2.2	2.	151.						
90	84	194.0	177.6	19.94	304.8	141.	20655.	174.	331.	229.	220.	220.	
YEARLY MORTALITY				16.12	2.2	2.	153.						
95	89	199.5	182.9	20.73	310.6	133.	21492.	163.	331.	226.	217.	217.	
YEARLY MORTALITY				17.05	2.1	1.	155.						
100	94	204.7	187.8	21.49	316.2	125.	22279.	153.	330.	223.	214.	214.	
100 94													
HARVEST				204.7	187.8	21.49	316.2	125.	22279.	153.	330.	223.	214.
SUM CUTS						316.2	125.	22279.					
SUM MORTALITY						209.1	760.	10712.					

D F S I M VERSION 1.0
TABLE 2A. — PLANTED , NO SUBSEQUENT TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

STAND ORIGIN — PLANTED TO 400. TREES PER ACRE.
THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**	
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	***NET***		
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+	
20	11	26.3	21.7	3.18	22.0	400.	224.	55.		11.			
25	16	36.5	31.9	4.56	45.3	400.	635.	99.		25.			
30	21	45.9	40.5	5.70	70.2	396.	1225.	129.		41.			
YEARLY MORTALITY				3.79	.1	1.	2.						
35	26	54.4	48.2	6.70	96.0	393.	1967.	157.	56.	56.	42.	24.	
YEARLY MORTALITY				4.89	.3	2.	7.						
40	31	62.0	55.1	7.59	120.1	383.	2787.	167.	70.	70.	58.	44.	
YEARLY MORTALITY				5.79	.7	4.	17.						
45	36	68.9	61.1	8.41	141.7	368.	3618.	165.	82.	80.	70.	60.	
YEARLY MORTALITY				6.49	.9	4.	24.						
50	41	75.2	66.5	9.19	160.5	348.	4429.	161.	93.	89.	80.	73.	
YEARLY MORTALITY				7.18	1.0	3.	29.						
55	46	80.8	71.3	9.93	177.8	330.	5228.	158.	101.	95.	87.	83.	
YEARLY MORTALITY				7.87	8.0	3.	33.						
60	51	86.0	75.7	10.63	193.8	314.	6007.	154.	108.	100.	93.	90.	
YEARLY MORTALITY				8.34	1.1	3.	37.						
65	56	90.7	79.7	11.30	208.6	299.	6759.	148.	114.	104.	97.	95.	
YEARLY MORTALITY				8.81	1.2	3.	41.						
70	61	95.0	83.3	11.96	222.4	285.	7482.	142.	119.	107.	101.	99.	
YEARLY MORTALITY				9.30	1.3	3.	45.						
75	66	99.0	86.6	12.61	235.3	271.	8173.	136.	823.	109.	103.	101.	
YEARLY MORTALITY				10.14	1.5	3.	56.						
80	71	102.7	89.7	13.25	246.7	258.	8813.	123.	127.	110.	105.	103.	
YEARLY MORTALITY				11.07	1.8	3.	66.						
85	76	106.1	92.6	13.87	256.3	244.	9384.	109.	130.	110.	105.	104.	
YEARLY MORTALITY				11.90	1.9	2.	73.						
90	81	109.2	95.3	14.47	264.6	232.	9895.	98.	832.	110.	105.	104.	
YEARLY MORTALITY				12.67	2.0	2.	77.						
95	86	112.2	97.7	15.06	272.0	220.	10359.	89.	134.	109.	104.	103.	
YEARLY MORTALITY				13.29	2.0	2.	80.						
100	91	114.9	99.9	15.63	278.8	209.	10784.	82.	136.	108.	103.	103.	
100 91													
HARVEST				114.9	99.9	15.63	278.8	209.	10784.	82.	136.	108.	103.
SUM CUTS						278.8	209.	10784.					
SUM MORTALITY						79.6	187.	2781.					

D F S I M VERSION 1.0
TABLE 2B. — PLANTED , NO SUBSEQUENT TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

STAND ORIGIN — PLANTED TO 400. TREES PER ACRE.
THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	LOREY HT FEET	BASAL DBH INCH	BASAL AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	#MAI GROSS 1.6+	CVTS* NET 1.6+	**MAI ****NET**** 5.6+	CV4** 7.6+	
20	12	33.8	29.4	4.21	38.7	400.	506.	112.		25.			
25	17	46.4	41.2	5.76	71.9	397.	1273.	177.		51.			
YEARLY MORTALITY				3.63	.1	2	3						
30	22	58.0	51.5	6.98	104.0	392.	2277.	215.	76.	76.	59.	38.	
YEARLY MORTALITY				4.74	.5	4	14						
35	27	68.4	60.7	8.08	132.8	373.	3394.	226.	99.	97.	83.	69.	
YEARLY MORTALITY				5.90	1.0	5	28						
40	32	77.9	68.9	9.09	157.1	348.	4519.	224.	117.	113.	102.	93.	
YEARLY MORTALITY				6.45	1.1	5	35						
45	37	86.4	76.3	10.04	178.3	324.	5637.	222.	133.	125.	115.	110.	
YEARLY MORTALITY				6.99	1.2	4	41						
50	42	94.1	83.1	10.96	197.4	301.	6734.	217.	145.	135.	126.	122.	
YEARLY MORTALITY				7.54	1.3	4	47						
55	47	101.1	89.2	11.85	214.7	280.	7796.	209.	155.	142.	133.	131.	
YEARLY MORTALITY				8.23	1.3	4	52						
60	52	107.5	95.1	12.70	230.1	261.	8832.	204.	164.	147.	139.	137.	
YEARLY MORTALITY				9.06	1.4	3	58						
65	57	113.3	100.4	13.52	244.2	245.	9823.	194.	171.	151.	144.	141.	
YEARLY MORTALITY				10.29	1.7	3	73						
70	62	118.7	105.3	14.31	256.4	230.	10733.	173.	176.	153.	146.	144.	
YEARLY MORTALITY				11.37	1.9	3	86						
75	67	123.7	109.8	15.06	266.6	216.	11543.	155.	181.	154.	147.	145.	
YEARLY MORTALITY				12.33	2.1	2	94						
80	72	128.2	113.9	15.79	275.4	203.	12273.	141.	184.	153.	147.	146.	
YEARLY MORTALITY				13.23	2.1	2	99						
85	77	132.5	117.6	16.49	283.2	191.	12940.	129.	187.	152.	146.	145.	
YEARLY MORTALITY				14.09	2.2	2	108						
90	82	136.5	121.1	17.17	290.4	181.	13553.	119.	189.	151.	145.	145.	
YEARLY MORTALITY				14.92	2.2	2	106						
95	87	140.2	124.3	17.84	297.0	171.	14120.	110.	191.	149.	143.	143.	
YEARLY MORTALITY				15.71	2.2	2	108						
100	92	143.6	127.2	18.48	303.2	163.	14646.	102.	192.	146.	141.	141.	
100 92													
HARVEST				143.6	127.2	18.48	303.2	163.	14646.	102.	192.	146.	141.
SUM CUTS						303.2	163.	14646.					
SUM MORTALITY						106.9	234.	4519.					

DFSIM VERSION 1.0

TABLE 2C. — PLANTED , NO SUBSEQUENT TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

STAND ORIGIN — PLANTED TO 400. TREES PER ACRE.
THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	HT FEET	DBH INCH	BASAL AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	*MAI GROSS 1.6+	CVTS* NET 1.6+	**MAI *****NET**** 5.6+	CV4** 7.6+	
15	8	26.6	22.2	3.23	22.8	400.	236.	82.		16.			
20	13	42.3	37.5	5.28	M.7	399.	987.	194.		48s			
YEARLY MORTALITY				3.63	.1	1	2						
25	18	57.2	50.9	6.84	100.6	394.	2180.	264.	87.	87.	67.	41.	
YEARLY MORTALITY				4.35	.7	6.	18.						
30	23	70.7	62.9	8.20	135.6	370.	3592.	290.	122.	120.	104.	88.	
YEARLY MORTALITY				5.50	1.1	7.	34.						
35	28	83.1	73.7	9.46	164.2	337.	5048.	293.	150.	144.	131.	122.	
YEARLY MORTALITY				6.10	1.2	6.	43.						
40	33	94.2	83.6	10.65	188.7	305.	6513.	292.	173.	163.	151.	146.	
YEARLY MORTALITY				6.75	1.3	5.	51.						
45	38	104.3	92.7	11.79	218.1	277.	7961.	290.	191.	177.	166.	163.	
YEARLY MORTALITY				7.62	1.4	4.	59.						
50	43	113.5	101.4	12.87	228.6	253.	9382.	280.	206.	188.	178.	174.	
YEARLY MORTALITY				8.50	1.5	4.	66.						
55	48	121.9	109.3	13.89	245.1	233.	10749.	269.	218.	195.	186.	183.	
YEARLY MORTALITY				9.80	1.7	3.	83.						
60	53	829.5	116.6	14.85	259.5	216.	12031.	246.	227.	201.	192.	189.	
YEARLY MORTALITY				11.10	2.0	3.	101.						
65	58	136.6	123.3	15.77	271.3	200.	13181.	220.	235.	203.	195.	192.	
YEARLY MORTALITY				12.23	2.2	3.	112.						
70	63	143.1	129.4	16.65	281.2	186.	14220.	200.	241.	203.	195.	194.	
YEARLY MORTALITY				13.26	2.2	2	120.						
75	68	140.1	135.1	17.49	289.9	174.	15168.	183.	245.	202.	194.	194.	
YEARLY MORTALITY				14.24	2.3	2	125.						
80	73	154.7	140.3	18.31	297.8	163.	16043.	170.	248.	201.	193.	193.	
YEARLY MORTALITY				15.20	2.3	2	128.						
85	78	159.9	145.1	19.09	305.0	153.	16854.	157.	251.	198.	190.	190.	
YEARLY MORTALITY				16.14	2.3	2	131.						
90	83	164.7	149.6	19.85	311.7	145.	17608.	146.	252s	196.	188.	188.	
YEARLY MORTALITY				17.07	2.3	1.	133.						
95	88	169.3	153.7	20.58	318.0	138.	18310.	137.	253.	193.	185.	185.	
YEARLY MORTALITY				17.99	2.3	1	135.						
100	93	173.6	157.6	21.30	324.0	131.	18965.	127.	254.	190.	182.	182.	
100 93													
HARVEST				173.6	157.6	21.30	324.0	131.	18965.	127.	254.	190.	182.
SUM CUTS						324.0	131.	18965.					
SUM MORTALITY						129.6	267.	6443.					

D F S I M VERSION 1.0
TABLE 2D. — PLANTED , NO SUBSEQUENT TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

STAND ORIGIN — PLANTED TO 400. TREES PER ACRE.
THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	#MAI	CVTS*	**MAI CV4**			
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****			
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+		
15	9	33.8	29.5	4.21	38.7	400.	506.	154.		34.				
YEARLY MORTALITY				3.64	.1	1.	1.							
20	14	51.9	46.3	6.31	86.3	397.	1709.	287.	86.	85.	60.	27.		
YEARLY MORTALITY				3.98	.6	7.	16.							
25	19	68.8	61.3	7.95	130.2	378.	3371.	350.	137.	135.	115.	95.		
YEARLY MORTALITY				5.09	1.2	8.	38.							
30	24	84.3	75.1	9.52	165.1	334.	5172.	366.	179.	172.	157.	147.		
YEARLY MORTALITY				5.88	1.3	7.	50.							
35	29	98.4	87.7	10.97	194.1	296.	7019.	370.	213.	201.	187.	182.		
YEARLY MORTALITY				6.85	1.5	6.	61.							
40	34	111.1	99.6	12.30	218.3	264.	8872.	370.	239.	222.	209.	205.		
YEARLY MORTALITY				7.80	1.6	5.	71.							
45	39	122.8	110.8	13.53	238.8	239.	10687.	358.	261.	237.	226.	221.		
YEARLY MORTALITY				8.76	1.8	4.	87.							
50	44	133.4	121.2	14.70	256.5	218.	12424.	336.	277.	248.	238.	233.		
YEARLY MORTALITY				10.27	2.1	4.	113.							
55	49	143.1	130.8	15.82	270.6	198.	14000.	302.	290.	255.	244.	241.		
YEARLY MORTALITY				11.56	2.3	3.	129.							
60	54	152.1	139.7	16.89	282.1	181.	15426.	275.	300.	257.	247.	245.		
YEARLY MORTALITY				12.71	2.4	3.	139.							
65	59	160.4	147.9	17.90	291.9	167.	16734.	253.	307.	257.	247.	247.		
YEARLY MORTALITY				13.81	2.4	2.	145.							
70	64	168.1	155.5	18.87	300.6	155.	17946.	235.	313.	256.	246.	246.		
YEARLY MORTALITY				14.87	2.4	2.	150.							
75	69	175.2	162.6	19.80	308.6	144.	19074.	219.	317.	254.	244.	244.		
YEARLY MORTALITY				15.91	2.4	2.	154.							
80	74	181.9	169.2	20.69	315.9	135.	20128.	205.	320.	252.	242.	242.		
YEARLY MORTALITY				16.94	2.3	1.	156.							
85	79	188.1	175.3	21.55	322.8	127.	21112.	192.	322.	248.	238.	238.		
YEARLY MORTALITY				17.96	2.3	1.	159.							
90	84	194.0	181.0	22.38	329.2	120.	22034.	179.	323.	245.	235.	235.		
YEARLY MORTALITY				18.97	2.3	1.	161.							
95	89	199.5	186.3	23.19	335.3	114.	22896.	168.	323.	241.	231.	231.		
YEARLY MORTALITY				19.98	2.3	1.	163.							
100	94	204.7	191.3	23.97	341.1	109.	23704.	157.	323.	237.	228.	228.		
100 94														
HARVEST				204.7	191.3	23.97	341.1	109.	23704.	157.	323.	237.	228.	228.
SUM CUTS						341.1	109.	23704.						
SUM MORTALITY						151.1	290.	8633.						

D F S I M VERSION 1.0
TABLE 3A. — PLANTED , NO SUBSEQUENT TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

STAND ORIGIN — PLANTED TO 300. TREES PER ACRE.
THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	LOREY HT FEET	BASAL DBH INCH	BASAL AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	*MAI GROSS 1.6+	CVTS* NET 1.6+	**MAI ****NET**** 5.6+	CV4** 7.6+		
20	11	26.3	22.3	3.36	18.5	300.	190.	48.		10.				
25	16	36.5	32.6	4.88	38.9	300.	552.	88.		22.				
YEARLY MORTALITY				3.93	.0	0.	1.							
30	21	45.9	41.4	6.18	62.3	299.	1095.	123.	37.	37.	24.	8.		
YEARLY MORTALITY				4.62	.0	0.	1.							
35	26	54.4	49.2	7.31	86.8	298.	1791.	148.	51.	51.	42.	28.		
YEARLY MORTALITY				5.30	.1	1.	3.							
40	31	62.0	56.1	8.30	110.8	295.	2583.	163.	65.	65.	56.	47.		
YEARLY MORTALITY				6.34	.3	1.	8.							
45	36	68.9	62.1	9.20	133.4	289.	3416.	168.	77.	76.	69.	62.		
YEARLY MORTALITY				7.09	.6	2.	17.							
50	41	75.2	67.5	10.05	153.9	279.	4250.	165.	87.	85.	78.	74.		
YEARLY MORTALITY				7.86	.9	3.	26.							
55	46	80.8	72.4	10.87	172.0	267.	5051.	159.	96.	92.	86.	83.		
YEARLY MORTALITY				8.63	1.0	2.	31.							
60	51	86.0	76.8	11.66	188.6	254.	5832.	154.	103.	97.	92.	90.		
YEARLY MORTALITY				9.39	?	2.	30.							
65	56	90.7	80.8	12.39	204.7	244.	6609.	154.	110.	102.	96.	95.		
YEARLY MORTALITY				10.14	1.0	2.	34.							
70	61	95.0	84.4	13.09	220.0	235.	7362.	149.	115.	105.	100.	99.		
YEARLY MORTALITY				10.78	1.1	2.	37.							
75	66	99.0	87.7	13.77	234.3	227.	8088.	143.	119.	108.	103.	102.		
YEARLY MORTALITY				11.23	1.1	2.	41.							
80	71	102.7	90.8	14.42	247.8	218.	8790.	139.	123.	110.	105.	104.		
YEARLY MORTALITY				12.13	1.3	2.	48.							
85	76	106.1	93.7	15.06	260.3	211.	9460.	129.	126.	111.	107.	106.		
YEARLY MORTALITY				13.21	1.6	2.	60.							
90	81	109.2	96.3	15.67	271.1	202.	10056.	113.	129.	112.	107.	107.		
YEARLY MORTALITY				13.83	1.8	2.	69.							
95	86	112.2	98.7	16.28	280.2	194.	10582.	100.	131.	111.	107.	107.		
YEARLY MORTALITY				14.35	1.9	2.	75.							
100	91	114.9	100.9	16.89	288.3	185.	11051.	90.	133.	111.	106.	106.		
100 91														
HARVEST				114.9	100.9	16.89	288.3	185.	11051.	90.	133.	111.	106.	106.
SUM CUTS						288.3	185.	11051.						
SUM MORTALITY						63.9	115.	2240.						

D F S I M VERSION 10
 TABLE 3B. -- PLANTED , NO SUBSEQUENT TREATMENT
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 16 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

STAND ORIGIN -- PLANTED TO 300. TREES PER ACRE.
 THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
 THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
 NO COMMERCIAL THINNING TO BE DONE.

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	LOREY HT FEET	BASAL DBH INCH	BASAL AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	*MAI GROSS 1.6+	CVTS* NET 1.6+	**MAI 5.6+	CV4** 7.6+
20	12	33.8	30.1	4.50	33.1	300.	438.	99.		22.		
YEARLY MORTALITY				4.26	.0	0.	1					
25	17	46.4	42.0	6.20	62.8	299.	1122.	158.	45.	45.	30.	11.
YEARLY MORTALITY				4.39	.1	0.	1					
30	22	58.0	52.5	7.57	93.0	297.	2047.	201.	68.	68.	57.	42.
YEARLY MORTALITY				4.62	.2	0.	5					
35	27	68.4	61.7	8.75	121.8	292.	3124.	222.	90.	89.	79.	70.
YEARLY MORTALITY				5.95	.5	3.	16.					
40	32	77.9	69.9	9.85	147.7	279.	4255.	227.	108.	106.	98.	92.
YEARLY MORTALITY				7.23	.9	3	28.					
45	37	86.4	77.4	10.86	170.1	264.	5375.	222.	124.	119.	112.	108.
YEARLY MORTALITY				7.82	1.0	3	34.					
50	42	94.1	84.1	11.82	190.1	249.	6477.	219.	137.	130.	122.	120.
YEARLY MORTALITY				8.40	11	3	39.					
55	47	101.1	90.2	12.75	208.6	235.	7554.	213.	147.	137.	130.	129.
YEARLY MORTALITY				9.11	11	3	44.					
60	52	107.5	96.0	13.63	225.2	222.	8611.	209.	156.	144.	137.	135.
YEARLY MORTALITY				9.97	1.2	2	49.					
65	57	113.3	101.4	14.47	240.5	211.	9631.	201.	163.	148.	142.	140.
YEARLY MORTALITY				10.84	1.3	2	54.					
70	62	118.7	106.3	15.28	254.8	200.	10609.	192.	169.	152.	145.	144.
YEARLY MORTALITY				11.87	1.4	2	62.					
75	67	123.7	110.7	16.05	268.0	191.	31537.	179.	174.	154.	148.	147.
YEARLY MORTALITY				13.16	1.7	2	77.					
80	72	128.2	114.8	16.79	279.3	182.	12372.	159.	178.	155.	148.	148.
YEARLY MORTALITY				14.26	1.9	2.	89.					
85	77	132.5	118.6	17.50	288.9	173.	13114.	142.	182.	154.	148.	148.
YEARLY MORTALITY				15.24	2.0	2	96.					
90	82	136.5	122.0	18.19	297.3	165.	13781.	128.	184.	153.	147.	147.
YEARLY MORTALITY				16.04	2.1	2	102.					
95	87	140.2	125.2	18.87	304.8	157.	14387.	117.	186.	151.	145.	145.
YEARLY MORTALITY				16.60	2.1	1	105.					
100	92	143.6	128.1	19.54	311.8	150.	14942.	107.	187.	149.	143.	143.
100	92											
HARVEST		143.6	128.1	19.54	311.8	150.	84942.	107.	187.	149.	143.	143.
SUM CUTS					311.8	150.	14942.					
SUM MORTALITY					88.8	150.	3798.					

D F S I M VERSION 1.0
TABLE 3C. — PLANTED , NO SUBSEQUENT TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

STAND ORIGIN — PLANTED TO 300. TREES PER ACRE.
THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	LOREY HT FEET	BASAL DBH INCH	BASAL AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	*MAI GROSS 1.6+	CVTS* NET 1.6+	**MAI 5.6+	CV4** 7.6+		
15	8	26.6	22.8	3.42	19.1	300.	201.	71.		13.				
20	13	42.3	38.3	5.68	52.8	300.	867.	175.		43.				
YEARLY MORTALITY				4.41	.1	0.	1.							
25	18	57.2	51.8	7.41	89.2	298.	1944.	242.	78.	78.	64.	45.		
YEARLY MORTALITY				4.52	.2	2.	7.							
30	23	70.7	63.8	8.81	123.8	292.	3288.	281.	110.	110.	98.	87.		
YEARLY MORTALITY				5.48	.7	4.	22.							
35	28	83.1	74.6	10.14	153.8	274.	4733.	291.	138.	135.	125.	120.		
YEARLY MORTALITY				6.64	1.0	4.	35.							
40	33	94.2	84.5	11.40	179.1	253.	6177.	289.	161.	154.	145.	142.		
YEARLY MORTALITY				7.26	1.1	4.	43.							
45	38	104.3	93.6	12.59	201.3	233.	7615.	289.	179.	169.	160.	158.		
YEARLY MORTALITY				8.23	1.2	3.	50.							
50	43	113.5	102.3	13.72	220.9	215.	9041.	282.	195.	181.	172.	170.		
YEARLY MORTALITY				9.22	1.3	3.	57.							
55	48	121.9	110.3	14.77	238.6	201.	10424.	273.	207.	190.	181.	179.		
YEARLY MORTALITY				10.21	1.3	2.	64.							
60	53	129.5	117.5	15.76	254.7	188.	11754.	261.	217.	196.	188.	187.		
YEARLY MORTALITY				11.21	1.4	2.	70.							
65	58	136.6	124.3	16.70	269.5	177.	13026.	250.	225.	200.	192.	192.		
YEARLY MORTALITY				12.60	1.7	2.	85.							
70	63	143.1	130.4	17.60	282.6	167.	14213.	227.	232.	203.	195.	190.		
YEARLY MORTALITY				13.97	1.9	2.	102.							
75	68	149.1	136.1	18.46	293.7	158.	15276.	203.	237.	204.	196.	196.		
YEARLY MORTALITY				15.15	2.1	2.	113.							
80	73	154.7	141.3	19.28	303.1	150.	16231.	184.	241.	203.	195.	195.		
YEARLY MORTALITY				16.24	2.2	2.	121.							
85	78	159.9	146.2	20.07	311.4	142.	17100.	168.	244.	201.	193.	193.		
YEARLY MORTALITY				17.27	2.2	1.	127.							
90	83	164.7	150.6	20.84	318.9	135.	17897.	154.	246.	199.	191.	191.		
YEARLY MORTALITY				18.26	2.2	1.	131.							
95	88	169.3	154.8	21.59	325.8	128.	18632.	142.	248.	196.	188.	188.		
YEARLY MORTALITY				18.97	2.2	1.	134.							
100	93	173.6	158.6	22.32	332.3	122.	19312.	132.	249.	193.	185.	185.		
100 93														
HARVEST				173.6	158.6	22.32	332.3	122.	19312.	132.	249.	193.	185.	185.
SUM CUTS						332.3	122.	19312.						
SUM MORTALITY						109.9	170.	5544.						

D F S I M VERSION 1.0
TABLE 3D. — PLANTED , NO SUBSEQUENT TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

STAND ORIGIN — PLANTED TO 300. TRES PER ACRE.
THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	LOREY HT FEET	BASAL DBH INCH	BASAL AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	#MAI GROSS 1.6+	CVTS# NET 1.6+	**MAI ****NET**** 5.6+	CV4** 7.6+
15	9	33.8	30.2	4.49	33.0	300.	438.	135.		29.		
YEARLY MORTALITY				4.39	.1	1	1					
20	14	51.9	47.2	6.84	76.2	299.	1519.	260.	76.	76.	58.	33.
YEARLY MORTALITY				4.42	.2	2	5					
25	19	68.8	62.3	8.58	118.1	294.	3071.	335.	123.	123.	109.	a.
YEARLY MORTALITY				5.24	.8	5	25					
30	24	84.3	75.9	10.15	154.3	274.	4837.	360.	164.	161.	149.	143.
YEARLY MORTALITY				6.27	1.1	5	41					
35	29	98.4	88.6	11.69	183.8	247.	6641.	363.	198.	190.	178.	175.
YEARLY MORTALITY				7.29	1.2	4	51					
40	34	111.1	100.6	13.09	208.9	223.	8470.	367.	225.	212.	201.	198.
YEARLY MORTALITY				8.29	1.3	4	61					
45	39	122.8	111.8	14.38	230.5	204.	10281.	358.	246.	228.	218.	215.
YEARLY MORTALITY				9.29	1.4	3	70					
50	44	133.4	122.2	15.59	249.5	189.	12039.	346.	263.	241.	231.	229.
YEARLY MORTALITY				10.31	1.5	3	78					
55	49	143.1	131.8	16.73	266.6	175.	13728.	332.	277.	250.	240.	238.
YEARLY MORTALITY				11.51	1.6	2	91					
60	54	152.1	140.7	17.82	281.8	163.	15336.	312.	288.	256.	245.	245.
YEARLY MORTALITY				13.12	1.9	2	113					
65	59	160.4	149.0	18.85	294.6	152.	16801.	281.	296.	258.	248.	248.
YEARLY MORTALITY				14.50	2.1	2.	129					
70	64	168.1	156.6	19.84	305.3	142.	18123.	254.	303.	259.	249.	249.
YEARLY MORTALITY				15.74	2.2	2	140					
75	69	175.2	163.7	20.78	314.5	134.	19329.	233.	308.	258.	247.	247.
YEARLY MORTALITY				16.90	2.3	1	148					
80	74	181.9	170.3	21.68	322.7	126.	20439.	215.	311.	255.	245.	245.
YEARLY MORTALITY				18.02	2.3	1	153.					
85	79	188.1	176.5	22.55	330.2	119.	21466.	199.	314.	253.	242.	242.
YEARLY MORTALITY				19.11	2.3	1	157.					
90	84	194.0	182.2	23.39	337.2	113.	22419.	185.	316.	249.	239.	239.
YEARLY MORTALITY				20.17	2.3	1	160.					
95	89	199.5	187.5	24.20	343.6	108.	23307.	173.	317.	245.	236.	236.
YEARLY MORTALITY				21.23	2.3	1	163.					
100	94	204.7	192.5	24.99	349.7	103.	24135.	161.	317.	241.	232.	232.
100	94											
HARVEST		204.7	192.5	24.99	349.7	103.	24135.	161.	317.	241.	232.	232.
SUM CUTS					349.7	103.	24135.					
SUM MORTALITY					130.8	197.	7614.					

D F S I M VERSION 1.0
 TABLE 4A. -- PRECOMMERCIALY THINNED, NO SUBSEQUENT TREATMENT
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

STAND ORIGIN --- NATURAL.

STAND WILL BE PRECOMMERCIALY THINNED AT AGE ° 15. TO 400. TREES PER ACRE.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
 NO COMMERCIAL THINNING TO BE DONE.

TOT	BH		LOREY		BASAL	TREES	CVTS	CAI	#MAI	CVTS*	**MAI	CV4**
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
15	6	15.7	0.0	1.79	7.0	400.	43.	0.		3.		
20	11	26.3	22.6	3.43	25.7	400.	267.	65.		13.		
25	16	36.5	32.7	4.89	52.2	400.	742.	113.		30.		
YEARLY MORTALITY				3.90	.0	0.	1					
30	21	45.9	41.4	6.13	81.2	396.	1431.	156.	48.	48.	32.	13.
YEARLY MORTALITY				4.39	.1	1	2					
35	26	54.4	49.1	7.16	109.9	393.	2271.	174.	65.	65.	51.	35.
YEARLY MORTALITY				5.20	.3	2	6.					
40	31	62.0	55.8	8.04	136.2	386.	3173.	183.	80.	79.	67.	55.
YEARLY MORTALITY				6.07	.5	3	14.					
45	36	68.9	61.7	8.85	159.7	374.	4088.	183.	93.	91.	80.	72.
YEARLY MORTALITY				6.62	.7	3	20.					
50	41	75.2	67.0	9.61	180.8	359.	4994.	180.	103.	100.	90.	84.
YEARLY MORTALITY				7.17	.9	3	27.					
55	46	80.8	71.8	10.33	199.8	343.	5876.	174.	112.	107.	98.	94.
YEARLY MORTALITY				7.71	1.1	3	34.					
60	51	86.0	76.2	11.02	216.9	327.	6722.	166.	120.	112.	104.	101.
YEARLY MORTALITY				8.67	1.5	4	49.					
65	56	90.7	80.2	11.71	231.9	310.	7507.	148.	126.	115.	108.	106.
YEARLY MORTALITY				9.59	1.9	4	66.					
70	61	95.0	83.7	12.38	243.5	291.	8178.	126.	130.	117.	110.	108.
YEARLY MORTALITY				10.33	2.1	4	75.					
75	66	99.0	87.1	13.04	252.8	272.	8770.	114.	134.	117.	111.	109.
YEARLY MORTALITY				11.07	2.2	3	80.					
80	71	102.7	90.3	13.69	260.9	255.	9309.	104.	138.	116.	111.	109.
YEARLY MORTALITY				11.82	2.2	3	83.					
85	76	106.1	93.1	14.31	268.2	240.	9805.	96.	140.	115.	110.	109.
YEARLY MORTALITY				12.58	2.2	3	85.					
90	81	109.2	95.7	14.92	275.0	226.	10263.	89.	142.	114.	109.	108.
YEARLY MORTALITY				13.19	2.2	2	87.					
95	86	112.2	98.1	15.51	281.3	214.	10689.	83.	144.	113.	108.	107.
YEARLY MORTALITY				13.69	2.2	2	88.					
100	91	114.9	100.4	16.11	287.4	203.	11086.	77.	145.	111.	106.	106.
100	91											
HARVEST		114.9	100.4	16.11	287.4	203.	11086.	77.	145.	111.	106.	106.
SUM CUTS					287.4	203.	11086.					
SUM MORTALITY					96.7	194.	3408.					

D F S I M VERSION 1.0
TABLE 4B. — PRECOMMERCIALY THINNED, NO SUBSEQUENT TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

STAND ORIGIN — NATURAL.

STAND WILL BE PRECOMMERCIALY THINNED AT AGE 13. TO 400. TREES PER ACRE.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT BH		LOREY		BASAL	TREES	CVTS	CAI	#MAI CVTS*	**MAI CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+
								5.6+	7.6+
15	7	20.7	16.0	2.56	14.3	400.	117.	46.	8.
20	12	33.8	30.3	4.53	44.9	400.	595.	130.	30.
YEARLY MORTALITY				3.85	.0	1.	1		
25	17	46.4	42.1	6.18	82.7	397.	1480.	207.	59.
YEARLY MORTALITY				3.85	.1	2.	3.		40.
30	22	58.0	52.4	7.46	119.0	392.	2625.	241.	88.
YEARLY MORTALITY				4.86	.5	4.	13.		71.
35	27	68.4	61.5	8.58	150.9	376.	3869.	252.	112.
YEARLY MORTALITY				5.66	.8	5.	23.		111.
40	32	77.9	69.7	9.60	178.0	354.	5132.	252.	132.
YEARLY MORTALITY				6.40	1.0	5.	34.		128.
45	37	86.4	77.1	10.56	201.5	331.	6373.	245.	148.
YEARLY MORTALITY				7.09	1.3	5.	44.		142.
50	42	94.1	83.8	11.50	221.8	308.	7564.	233.	161.
YEARLY MORTALITY				8.27	1.7	5.	65.		151.
55	47	101.1	90.1	12.40	238.7	284.	8678.	212.	172.
YEARLY MORTALITY				9.55	2.2	4.	85.		158.
60	52	107.5	95.9	13.27	251.5	262.	9657.	186.	180.
YEARLY MORTALITY				10.57	2.3	4.	96.		161.
65	57	113.3	101.2	14.09	261.9	242.	10528.	167.	187.
YEARLY MORTALITY				11.49	2.4	3.	102.		162.
70	62	118.7	106.0	14.88	270.8	224.	11319.	153.	192.
YEARLY MORTALITY				12.36	2.4	3.	106.		162.
75	67	123.7	110.5	15.64	278.8	209.	12047.	141.	196.
YEARLY MORTALITY				13.21	2.4	3.	108.		161.
80	72	128.2	114.5	16.37	286.2	196.	12722.	131.	199.
YEARLY MORTALITY				14.06	2.4	2.	110.		159.
85	77	132.5	118.3	17.08	293.1	184.	13348.	122.	201.
YEARLY MORTALITY				14.89	2.3	2.	112.		157.
90	82	136.5	121.7	17.77	299.5	174.	13932.	114.	202.
YEARLY MORTALITY				15.67	2.3	2.	113.		155.
95	87	140.2	124.9	18.43	305.7	165.	14478.	106.	203.
YEARLY MORTALITY				16.23	2.3	2.	113.		152.
100	92	143.6	127.8	19.10	311.6	157.	14987.	99.	204.
100	92								
HARVEST				143.6	127.8	19.10	311.6	157.	14987.
SUM CUTS								99.	204.
SUM MORTALITY								150.	144.
								144.	144.

D F S I M VERSION 1.0
TABLE 4C. -- PRECOMMERCIALY THINNED, NO SUBSEQUENT TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

STAND ORIGIN --- NATURAL.

STAND WILL BE PRECOMMERCIALY THINNED AT AGE 11. TO 400. TREES PER ACRE.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
15	8	26.6	23.1	3.51	26.8	400.	284.	97.		19.		
20	13	42.3	38.4	5.67	69.8	398.	1149.	221.		57.		
YEARLY MORTALITY				3.72	.1	2	3					
25	18	57.2	51.9	7.37	116.4	393.	2545.	303.	102.	102.	82.	59.
YEARLY MORTALITY				4.49	.6	5	16.					
30	23	70.7	63.7	8.76	156.1	373.	4150.	328.	140.	138.	122.	109.
YEARLY MORTALITY				5.38	1.0	6.	32.					
35	28	83.1	74.5	10.05	188.6	342.	5806.	331.	171.	166.	152.	145.
YEARLY MORTALITY				6.25	1.3	6.	48.					
40	33	94.2	84.4	11.28	215.3	310.	7432.	320.	196.	186.	174.	169.
YEARLY MORTALITY				7.38	1.7	6.	66.					
45	38	104.3	93.8	12.45	237.1	281.	9003.	304.	215.	200.	189.	185.
YEARLY MORTALITY				9.07	2.4	5	99.					
50	43	113.5	102.4	13.54	253.2	253.	10399.	264.	230.	208.	198.	194.
YEARLY MORTALITY				10.28	2.6	4	115.					
55	48	121.9	110.3	14.57	265.5	229.	11637.	238.	242.	212.	202.	199.
YEARLY MORTALITY				11.34	2.6	4	124.					
60	53	129.5	117.5	15.55	275.8	209.	12765.	218.	250.	213.	204.	202.
YEARLY MORTALITY				12.33	2.6	3	128.					
65	58	136.6	124.2	16.48	284.9	192.	13806.	202.	257.	212.	204.	202.
YEARLY MORTALITY				13.30	2.6	3	132.					
70	63	143.1	13.3	17.37	293.1	178.	14774.	188.	262.	211.	203.	202.
YEARLY MORTALITY				14.26	2.5	2	134.					
75	68	149.1	136.0	18.22	300.7	166.	15675.	175.	265.	209.	201.	201.
YEARLY MORTALITY				15.21	2.5	2	136.					
80	73	154.7	141.2	19.04	307.8	156.	16518.	164.	268.	206.	198.	198.
YEARLY MORTALITY				16.15	2.4	2.	137.					
85	78	159.9	146.0	19.83	314.5	147.	17305.	153.	269.	204.	195.	195.
YEARLY MORTALITY				17.09	24	2	138.					
90	83	164.7	150.4	20.59	320.8	139.	18042.	143.	270.	200.	192.	192.
YEARLY MORTALITY				18.03	24	1	139.					
95	88	169.3	154.5	21.33	326.9	132.	1873%.	134.	270.	197.	189.	189.
YEARLY MORTALITY				18.75	24	1	140.					
100	93	173.6	158.4	22.06	332.7	125.	19376.	126.	270.	194.	186.	186.
100 93												
HARVEST		173.6	158.4	22.06	332.7	125.	19376.	126.	270.	194.	186.	186.
SUM CUTS					332.7	125.	19376.					
SUM MORTALITY					155.6	273.	7656.					

D F S I M VERSION 1.0
TABLE 4D. — PRECOMMERCIALY THINNED, NO SUBSEQUENT TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

STAND ORIGIN — NATURAL.

STAND WILL BE PRECOMMERCIALY THINNED AT AGE 10. TO 400. TREES PER ACRE.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.

NO COMMERCIAL THINNING TO BE DONE.

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
15	9	33.8	30.3	4.52	44.7	400.	594.	178.		40.		
YEARLY MORTALITY				3.61	.1	1.	1.					
20	14	51.9	47.2	6.80	99.9	396.	1997.	344.	100.	100.	76.	45.
YEARLY MORTALITY				4.28	.5	5.	14.					
25	19	68.8	62.3	8.54	151.0	379.	3932.	407.	159.	157.	137.	120.
YEARLY MORTALITY				5.21	1.1	7.	35.					
30	24	84.3	75.9	10.08	191.6	346.	6017.	419.	206.	201.	184.	175.
YEARLY MORTALITY				6.18	1.6	8.	58.					
35	29	98.4	88.5	11.52	223.4	308.	8085.	407.	243.	231.	216.	211.
YEARLY MORTALITY				7.91	2.5	7.	106.					
40	34	111.1	100.7	12.92	246.0	270.	10019.	364.	271.	250.	237.	233.
YEARLY MORTALITY				9.38	2.9	6.	133.					
45	39	122.8	111.9	14.23	261.6	237.	11713.	325.	293.	260.	249.	243.
YEARLY MORTALITY				10.55	2.9	5.	144.					
50	44	133.4	122.3	15.45	274.0	211.	13258.	300.	308.	265.	254.	251.
YEARLY MORTALITY				13.65	2.8	4.	149.					
55	49	143.1	131.9	16.59	284.6	190.	14694.	279.	320.	267.	256.	254.
YEARLY MORTALITY				12.72	2.7	3.	153.					
60	54	152.1	140.7	17.67	294.1	173.	16036.	261.	328.	267.	257.	256.
YEARLY MORTALITY				13.77	2.7	3.	156.					
65	59	160.4	148.9	18.70	302.7	159.	17294.	245.	334.	266.	255.	255.
YEARLY MORTALITY				14.82	2.6	2.	158.					
70	64	168.1	156.5	19.67	310.7	147.	18474.	230.	338.	264.	253.	253.
YEARLY MORTALITY				15.87	2.5	2.	160.					
75	69	175.2	163.6	20.61	318.2	137.	19581.	216.	341.	261.	251.	251.
YEARLY MORTALITY				16.91	2.5	2.	162.					
80	74	181.9	170.2	21.51	325.2	129.	20620.	203.	343.	258.	247.	247.
YEARLY MORTALITY				17.55	2.5	1.	163.					
85	79	188.1	176.3	22.38	331.8	121.	21595.	190.	344.	254.	244.	244.
YEARLY MORTALITY				18.99	2.4	1.	165.					
90	84	194.0	182.0	23.21	338.1	115.	22510.	178.	344.	250.	240.	240.
YEARLY MORTALITY				20.02	2.4	1.	166.					
95	89	199.5	187.3	24.03	344.1	109.	23368.	167.	344.	246.	236.	236.
YEARLY MORTALITY				21.04	2.4	1.	167.					
100	94	204.7	192.3	24.81	349.8	104.	24173.	157.	343.	242.	232.	232.
100 94												
HARVEST		204.7	192.3	24.81	349.8	104.	24173.	157.	343.	242.	232.	232.
SUM CUTS					349.8	104.	24173.					
SUM MORTALITY					180.6	294.	10107.					

D F S I M VERSION 1.0
TABLE 5A. — PRECOMMERCIALY THINNED, NO SUBSEQUENT TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

STAND ORIGIN — NATURAL.

STAND WILL BE PRECOMMERCIALY THINNED AT AGE 15. TO 300. TREES PER ACRE.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
15	6	15.7	0.0	1.87	5.7	300.	35.	0.		2.		
20	11	26.3	232	3.66	21.9	300.	231.	58.		12.		
25	16	36.5	33.5	5.29	45.8	300.	658.	103.		26.		
YEARLY MORTALITY				4.32	.0	0.	1.					
30	21	45.9	42.5	6.79	75.0	298.	1332.	151.	44.	44.	33.	19.
YEARLY MORTALITY				5.24	.0	0.	1.					
35	26	54.4	50.3	8.01	103.9	297.	2158.	172.	62.	62.	52	41.
YEARLY MORTALITY				6.06	.1	1	3.					
40	31	62.0	57.0	9.02	130.7	295.	3053.	183.	77.	76.	68.	61.
YEARLY MORTALITY				6.83	.4	1	9.					
45	36	63.9	63.0	9.92	155.5	290.	3981.	186.	89.	88.	81	76.
YEARLY MORTALITY				7.60	.6	2	16.					
50	41	75.2	68.3	10.77	177.7	281.	4901.	183.	100.	98.	91.	88.
YEARLY MORTALITY				8.36	.7	2.	21.					
55	46	80.8	73.1	11.56	198.1	272.	5807.	180.	109.	106.	99.	97.
YEARLY MORTALITY				9.12	.9	2.	27.					
60	51	86.0	77.5	12.31	216.9	262.	6687.	173.	117.	111.	105.	104.
YEARLY MORTALITY				9.79	1.0	2	33.					
65	56	90.7	81.4	13.03	234.1	253.	7531.	166.	123.	116.	110.	109.
YEARLY MORTALITY				10.63	1.3	2	44.					
70	61	95.0	85.0	13.73	249.6	243.	8324.	151.	129.	119.	113.	112.
YEARLY MORTALITY				11.42	1.8	2.	62.					
75	66	99.0	88.3	14.42	262.0	231.	9016.	131.	133.	120.	115.	114.
YEARLY MORTALITY				12.22	2.0	2	73.					
80	71	102.7	91.5	15.11	272.1	218.	9622.	115.	137.	120.	115.	114.
YEARLY MORTALITY				13.03	2.1	2.	79.					
85	76	106.1	94.3	15.79	280.9	207.	10164.	104.	139.	120.	115.	115.
YEARLY MORTALITY				13.86	2.2	2	83.					
90	81	109.2	97.0	16.45	288.7	196.	10657.	95.	142.	118.	114.	114.
YEARLY MORTALITY				14.52	2.2	2	86.					
95	86	112.2	99.4	17.09	296.0	186.	11109.	88.	143.	117.	112.	112.
YEARLY MORTALITY				15.07	2.2	2	87.					
100	91	114.9	101.6	17.74	302.8	176.	11527.	81.	145.	115.	111.	111.
100 91												
HARVEST		114.9	101.6	17.74	302.8	176.	11527.	81	145.	115.	111	111
SUM CUTS					302.8	176.	11527.					
SUM MORTALITY					83.4	124.	2947.					

D F S I M VERSION 1.0
TABLE 5B. -- PRECOMMERCIALY THINNED, NO SUBSEQUENT TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

STAND ORIGIN — NATURAL.
STAND WILL BE PRECOMMERCIALY THINNED AT AGE 13. TO 300. TREES
PER ACRE.
THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	LOREY HT FEET	BASAL DBH INCH	BASAL AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	*MAI GROSS 1.6+	CVTS* NET 1.6+	**MAI ****NET**** 5.6+	CV4** 7.6+
15	7	20.7	16.6	2.70	11.9	300.	99.	39.		7.		
20	12	33.8	31.1	4.89	39.1	300.	525.	117.		26.		
YEARLY MORTALITY				4.24	.0	0.	1.					
25	17	46.4	43.1	6.80	75.3	298.	1358.	197.	54.	54.	41.	23.
YEARLY MORTALITY				4.48	.1	0.	1.					
30	22	58.0	53.6	8.30	111.4	296.	2468.	234.	83.	82.	71.	59.
YEARLY MORTALITY				5.03	.2	2.	6.					
35	27	68.4	62.7	9.53	143.9	291.	3695.	252.	106.	106.	95.	89.
YEARLY MORTALITY				6.56	.6	3.	18.					
40	32	77.9	70.9	10.64	172.1	279.	4959.	253.	126.	124.	115.	111.
YEARLY MORTALITY				7.37	.8	3.	27.					
45	37	86.4	78.3	11.67	196.9	265.	6212.	248.	143.	138.	130.	127.
YEARLY MORTALITY				8.12	1.1	3.	37.					
50	42	94.1	85.0	12.66	218.7	250.	7428.	239.	156.	149.	141.	139.
YEARLY MORTALITY				8.79	1.2	3.	44.					
55	47	101.1	91.3	13.60	237.9	236.	8604.	233.	167.	156.	149.	147.
YEARLY MORTALITY				9.90	1.4	3.	54.					
60	52	107.5	97.1	14.50	255.1	223.	9736.	219.	176.	162.	155.	154.
YEARLY MORTALITY				11.53	1.9	3.	77.					
65	57	113.3	102.4	15.35	269.0	209.	10741.	190.	183.	165.	158.	157.
YEARLY MORTALITY				12.57	2.2	3.	92.					
70	62	113.7	107.2	16.16	280.1	197.	11619.	167.	189.	166.	159.	159.
YEARLY MORTALITY				13.48	2.3	2.	101.					
75	67	123.7	111.7	16.96	289.5	185.	12405.	151.	193.	165.	159.	159.
YEARLY MORTALITY				14.40	2.4	2.	106.					
80	72	128.2	115.8	17.74	297.9	174.	13121.	138.	197.	164.	157.	157.
YEARLY MORTALITY				15.33	2.4	2.	109.					
85	77	132.5	119.5	18.49	305.5	164.	13779.	127.	199.	162.	156.	156.
YEARLY MORTALITY				16.26	2.4	2.	112.					
90	a2	136.5	122.9	19.21	312.6	155.	14388.	118.	201.	160.	153.	153.
YEARLY MORTALITY				16.93	2.4	2.	113.					
95	a7	140.2	126.1	19.92	319.3	147.	14953.	110.	202.	157.	151.	151.
YEARLY MORTALITY				17.53	2.3	1.	114.					
100	92	143.6	129.1	20.63	325.7	140.	15479.	102.	203.	155.	149.	149.
100 92												
HARVEST		143.6	129.1	20.63	325.7	140.	15479.	102.	203.	155.	149.	149.
SUM CUTS					325.7	140.	15479.					
SUM MORTALITY					113.5	160.	4839.					

D F S I M VERSION 1.0
TABLE 5C. -- PRECOMMERCIALY THINNED, NO SUBSEQUENT TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

STAND ORIGIN -- NATURAL.

STAND WILL BE PRECOMMERCIALY THINNED AT AGE 11. TO 300. TREES PER ACRE.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+
								5.6+	7.6+
15 8	26.6	23.8	3.74	22.9	300.	246.	86.		16.
YEARLY MORTALITY			3.99	.1	1	1			
20 13	42.3	39.3	6.21	62.9	299.	1043.	216.	52	52.
YEARLY MORTALITY			4.39	.1	1	1.			35.
25 18	57.2	53.0	8.19	108.5	297.	2382.	294.	96.	95.
YEARLY MORTALITY			4.97	.3	2	9.			82.
30 23	70.7	64.9	9.70	148.5	289.	3952.	325.	133.	132.
YEARLY MORTALITY			6.03	.8	4	25.			120.
35 28	83.1	75.8	11.10	181.9	271.	5595.	330.	163.	160.
YEARLY MORTALITY			7.04	1.1	4	39.			149.
40 33	94.2	55.6	12.41	210.1	250.	7227.	323.	188.	131.
YEARLY MORTALITY			7.88	1.3	4	49.			171.
45 38	104.3	95.0	13.64	233.8	230.	8834.	319.	208.	196.
YEARLY MORTALITY			8.89	1.3	3	56.			187.
50 43	113.5	103.7	14.73	254.6	214.	10398.	308.	224.	208.
YEARLY MORTALITY			10.89	2.0	3	88.			199.
55 48	121.9	111.6	15.85	271.7	198.	11831.	270.	236.	215.
YEARLY MORTALITY			12.41	2.3	3	110.			206.
60 53	129.5	113.9	16.85	284.7	184.	13082.	238.	246.	218.
YEARLY MORTALITY			13.61	2.5	2	122.			209.
65 58	135.6	125.5	17.31	295.3	171.	14201.	215.	253.	218.
YEARLY MORTALITY			14.63	2.5	2	130.			210.
70 63	143.1	131.7	13.72	304.5	159.	15221.	197.	259.	217.
YEARLY MORTALITY			15.65	2.5	2	134.			209.
75 68	149.1	137.3	19.60	312.8	149.	16160.	182.	263.	215.
YEARLY MORTALITY			16.68	2.5	2	137.			207.
80 73	154.7	142.5	20.45	320.4	141.	17031.	169.	266.	213.
YEARLY MORTALITY			17.71	2.5	1	139.			204.
85 78	159.9	147.4	21.26	327.5	133.	17841.	157.	268.	210.
YEARLY MORTALITY			13.74	2.5	1	141.			201.
90 83	164.7	151.8	22.05	334.2	126.	18595.	147.	269.	207.
YEARLY MORTALITY			19.40	2.4	1	142.			198.
95 88	169.3	156.0	22.82	340.6	120.	19299.	137.	270.	203.
YEARLY MORTALITY			20.05	2.4	1	142.			195.
100 93	173.6	159.9	23.60	346.7	114.	19955.	128.	270.	200.
100 93									192.
HARVEST	173.6	159.9	23.60	346.7	114.	19955.	128.	270.	200.
									192.
SUM CUTS				346.7	114.	19955.			
SUM MORTALITY				141.4	186.	7048.			

D F S I M VERSION 1.0
TABLE 5D. -- PRECOMMERCIALY THINNED, NO SUBSEQUENT TREATMENT
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

STAND ORIGIN -- NATURAL.

STAND WILL BE PRECOMMERCIALY THINNED AT AGE 10. TO 300. TREES PER ACRE.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HTBO HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
15 9	33.8 31.1	4.88 38.9	300.	524.	159.		35.		
YEARLY MORTALITY		4.40 .1	1	1.					
20 14	51.9 48.3	7.53 92.1	298.	1852.	329.	93.	93.	76.	55.
YEARLY MORTALITY		4.76 .2	2.	6.					
25 19	68.8 63.5	9.47 142.9	292.	3726.	398.	150.	149.	135.	125.
YEARLY MORTALITY		5.76 .9	5.	28.					
30 24	84.3 77.2	11.15 184.3	272.	5783.	416.	197.	193.	180.	176.
YEARLY MORTALITY		6.82 1.3	5.	48.					
35 29	98.4 89.8	12.72 217.6	247.	7850.	410.	233.	224.	212.	210.
YEARLY MORTALITY		7.87 1.4	4.	59.					
40 34	111.1 102.0	14.15 244.5	224.	9907.	408.	262.	243.	236.	233.
YEARLY MORTALITY		9.48 2.0	4.	90.					
45 39	122.8 113.3	15.49 266.6	204.	11869.	373.	285.	264.	253.	251.
YEARLY MORTALITY		11.40 2.6	4.	125.					
50 44	133.4 123.7	16.75 282.7	185.	13588.	327.	302.	272.	261.	260.
YEARLY MORTALITY		12.81 2.7	3.	142.					
55 49	143.1 133.3	17.93 295.1	168.	15127.	296.	315.	275.	264.	264.
YEARLY MORTALITY		14.05 2.7	3.	152.					
60 54	152.1 142.2	19.04 305.7	155.	16535.	273.	325.	276.	265.	265.
YEARLY MORTALITY		15.23 2.7	2.	157.					
65 59	160.4 150.4	20.09 314.9	143.	17839.	253.	332.	274.	263.	263.
YEARLY MORTALITY		16.37 2.7	2.	161.					
70 64	168.1 158.1	21.08 323.3	133.	19053.	236.	337.	272.	261.	261.
YEARLY MORTALITY		17.49 2.6	2.	164.					
75 69	175.2 165.2	22.04 331.1	125.	20185.	220.	340.	269.	258.	258.
YEARLY MORTALITY		18.60 2.6	1.	166.					
80 74	181.9 171.8	22.95 338.3	118.	21244.	206.	343.	265.	255.	255.
YEARLY MORTALITY		19.70 2.5	1.	168.					
85 79	188.1 178.0	23.33 345.1	111.	22235.	193.	344.	262.	251.	251.
YEARLY MORTALITY		20.73 2.5	1.	169.					
90 84	194.0 183.7	24.68 351.5	106.	23163.	181.	344.	257.	247.	247.
YEARLY MORTALITY		21.68 2.5	1.	170.					
95 89	199.5 189.1	25.50 357.6	101.	24032.	169.	344.	253.	243.	243.
YEARLY MORTALITY		22.37 2.4	1.	171.					
100 94	204.7 194.1	26.32 363.5	96.	24844.	158.	344.	248.	239.	239.
100 94									
HARVEST	204.7 194.1	26.32 363.5	96.	24844.	158.	344.	248.	239.	239.
SUM CUTS			363.5	96.	24844.				
SUM MORTALITY			167.4	204.	9541.				

D F S I M VERSION 1.0
 TABLE 6A. -- NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

STAND ORIGIN --- NATURAL.
 FIRST COMMERCIAL THINNING IS WANTED AT AGE 61.
 THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 3.
 COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
 61. 76. 93.
 THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
 THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
 THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
 MUST BE AT LEAST 8.00 INCHES.
 THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
 AT LEAST 20. SQUARE FEET PER ACRE.
 THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
 AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
 THINNING CAN OCCUR.

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
30	21	45.9	35.8	4.20	109.4	1135.	1756.	161.		59.		
35	26	54.4	43.1	4.94	134.8	1014.	2570.	162.		73.		
40	31	62.0	49.8	5.64	154.3	888.	3364.	156.		84.		
YEARLY MORTALITY				3.99	1.9	22.	48.					
45	36	68.9	56.1	6.38	170.9	770.	4157.	153.	97.	92.	69.	49.
YEARLY MORTALITY				4.62	2.2	19.	59.					
50	41	75.2	61.8	7.09	183.8	670.	4884.	141.	107.	98.	78.	62.
YEARLY MORTALITY				5.21	2.2	15.	65.					
55	46	80.8	67.0	7.79	194.3	588.	5556.	131.	116.	101.	85.	73.
YEARLY MORTALITY				5.78	2.2	12.	69.					
60	51	86.0	71.7	8.46	203.5	522.	6184.	122.	122.	103.	90.	81.
61	52											
BEFORE		87.0	72.6	8.59	205.2	510.	6305.	121.	123.	103.	90.	82.
CUT				8.66	68.4	167.	2094.					
RESIDUAL		85.8	72.7	8.55	136.8	343.	4211.					
SUM CUTS					68.4	167.	2094.					
SUM MORTALITY					43.7	378.	1213.					
YEARLY MORTALITY				6.09	.9	4.	28.					
65	56	89.5	76.3	9.15	148.4	325.	4765.	135.	126.	106.	94.	86.

DFSIM VERSION 1.0

TABLE 6A. -- NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40 HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY		6.61	.9	4.	30.				
70 61	93.8 80.4	9.84	161.4	306.	5418.	128.	128.	107.	97.
YEARLY MORTALITY		7.18	.9	3.	32.				
75 66	97.8 84.2	10.49	173.4	289.	6045.	124.	130.	109.	99.
76 67									
BEFORE	98.6 84.9	10.61	175.7	286.	6168.	123.	130.	109.	99.
CUT		9.58	37.6	75.	1334.				
RESIDUAL	98.6 85.1	10.96	138.1	211.	4835.				
SUM CUTS		106.0	242.	3428.					
SUM MORTALITY		56.7	435.	1655.					
YEARLY MORTALITY		8.26	.4	1	14.				
80 71	101.5 87.9	11.52	149.9	207.	5383.	133.	131.	110.	101.
YEARLY MORTALITY		9.25	.5	1.	19.				
85 76	104.9 91.0	12.18	163.0	202.	6019.	124.	132.	111.	103.
YEARLY MORTALITY		10.28	.7	1.	26.				
90 81	108.0 93.8	12.80	175.0	196.	6612.	115.	133.	112.	104.
93 84									
BEFORE	109.8 95.4	13.16	181.5	192.	6948.	110.	133.	112.	104.
CUT		11.05	20.8	31.	816.				
RESIDUAL	109.8 95.7	13.53	160.7	161.	6131.				
SUM CUTS		126.8	273.	4244.					
SUM MORTALITY		65.7	454.	1994.					
YEARLY MORTALITY		11.72	.4	1.	16.				
95 86	111.0 96.7	13.80	166.1	160.	6386.	126.	133.	112.	104.
YEARLY MORTALITY		12.27	.5	1.	21.				
100 91	113.7 99.1	14.45	178.6	157.	6984.	116.	133.	112.	105.
100 91									
HARVEST	113.7 99.1	14.45	178.6	157.	6984.	116.	133.	112.	105.
SUM CUTS		305.5	430.	11228.					
SUM MORTALITY		68.9	458.	2120.					

D F S I M VERSION 1.0
 TABLE 6A. -- NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 85. (50 Y E W BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 61.					
BEFORE	9.7	192.6	376.	6030.	5517.
CUT	9.0	66.7	150.	2005.	1846.
RESIDUAL	10.1	125.9	226.	4025.	3671.
SUM CUTS		66.7	150.	2005.	1846.
SUM MORTALITY				420.	
TOTAL AGE 76.					
BEFORE	11.2	172.1	253.	6088.	5691.
CUT	9.8	37.1	70.	1309.	1213.
RESIDUAL	11.6	135.0	183.	4779.	4478.
SUM WTS		103.7	220.	3314.	3059.
SUM MORTALITY				671.	
TOTAL AGE 93.					
BEFORE	13.4	181.4	186.	6946.	6594.
CUT	11.2	20.7	30.	812.	763.
RESIDUAL	13.8	160.7	156.	6134.	5831.
SUM WTS		124.5	251.	4126.	3822.
SUM MORTALITY				913.	
TOTAL AGE 100.					
HARVEST	14.4	178.6	157.	6984.	6673.
SUM CUTS		303.1	407.	11110.	104%.
SUM MORTALITY				1013.	

D F S I M VERSION 1.0
TABLE 6A. -- NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 61.								
BEFORE	10.7	167.3	267.	5285.	5004.	4342.	24857.	19197.
CUT	10.0	56.0	103.	1756.	1622.	1338.	7529.	5703.
RESIDUAL	11.1	111.3	164.	3529.	3382.	3004.	17327.	13494.
SUM CUTS		56.0	103.	1756.	1622.	1338.	7529.	5703.
SUM MORTALITY				108.				
TOTAL AGE 76.								
BEFORE	11.8	162.6	214.	5794.	5492.	5011.	30126.	24122.
CUT	10.6	33.5	55.	1206.	1125.	974.	5675.	4363.
RESIDUAL	12.2	129.1	159.	4589.	4367.	4037.	24451.	19759.
SUM CUTS		89.5	157.	2961.	2747.	2312.	13204.	10067.
SUM MORTALITY				206.				
TOTAL AGE 93.								
BEFORE	13.7	177.9	173.	6837.	6516.	6178.	38596.	32147.
CUT	11.7	19.9	27.	783.	738.	675.	4078.	3216.
RESIDUAL	14.1	158.1	147.	6054.	5779.	5503.	34518.	28931.
SUM CUTS		109.4	184.	3744.	3485.	2987.	17282.	13282.
SUM MORTALITY				318.				
TOTAL AGE 100.								
HARVEST	14.8	177.3	148.	6940.	6638.	6366.	40261.	34067.
SUM CUTS		286.7	332.	10684.	10123.	9353.	57543.	47349.
SUM MORTALITY				367.				

D F S I I M VERSION 1.0
 TABLE 6B. -- NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

STAND ORIGIN --- NATURAL.
 FIRST COMMERCIAL THINNING IS WANTED AT AGE 48.
 THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 4.
 COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
 48. 60. 76. 95.
 THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
 THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
 THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
 MUST BE AT LEAST 8.00 INCHES.
 THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
 AT LEAST 20. SQUARE FEET PER ACRE.
 THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
 AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
 THINNING CAN OCCUR.

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40 HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
25 17	46.4 36.4	4.25 111.2	1128.	1815.	220.		73.		
30 22	58.0 46.6	5.26 144.3	955.	2958.	231.		99.		
YEARLY MORTALITY		3.72 2.2	29.	55.					
35 27	65.4 55.9	6.24 169.2	796.	4114.	227.	122.	118.	86.	61.
YEARLY MORTALITY		4.53 2.7	24.	76.					
40 32	77.9 64.4	7.17 186.6	665.	5182.	206.	142.	130.	104.	85.
YEARLY MORTALITY		5.22 2.7	1s.	86.					
45 37	86.4 72.3	8.07 199.7	563.	6164.	191.	157.	137.	117.	103.
48 40									
BEFORE	91.1 76.6	8.59 206.5	513.	6721.	183.	164.	140.	122.	111.
CUT		8.66 68.8	168.	2233.					
RESIDUAL	89.9 76.7	8.55 137.6	345.	4488.					
SUM CUTS		68.8	168.	2233.					
SUM MORTALITY		40.4	371.	1170.					
YEARLY MORTALITY		5.26 .9	6.	31.					
50 42	92.9 79.7	8.95 145.3	333.	4901.	205.	167.	143.	126.	115.
YEARLY MORTALITY		5.98 .9	5.	33.					
55 47	99.9 36.4	9.83 162.1	307.	5879.	191.	173.	147.	133.	124.
YEARLY MORTALITY		6.68 .9	4.	37.					
60 52	106.3 92.5	10.63 176.7	237.	6809.	183.	177.	151.	137.	130.
60 52									
BEFORE	106.3 92.5	10.63 176.7	287.	6809.	183.	177.	151.	137.	130.
CUT		9.59 39.1	78.	1520.					
RESIDUAL	106.3 92.8	10.99 137.6	209.	5289.					
SUM CUTS		107.9	246.	3752.					
SUM MORTALITY		51.2	429.	1569.					

DFSIM VERSION 1.0

TABLE 6B. -- NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+
								5.6+	7.6+
YEARLY MORTALITY			7.67	.4	1.	18.			
65 57	112.1	98.5	11.83	154.6	203.	6248.	185.	179.	154.
YEARLY MORTALITY			8.42	.6	2	26.			
70 62	117.5	103.6	12.60	169.1	195.	7134.	173.	181.	156.
YEARLY MORTALITY			9.33	.8	2	36.			
75 67	122.4	108.3	13.37	182.1	187.	7964.	161.	182.	156.
76 68									
BEFORE	123.4	109.1	13.52	184.5	185.	8123.	159.	182.	156.
CUT			11.29	28.6	41.	1288.			
RESIDUAL	123.4	109.6	14.09	155.8	144.	6835.			
SUM CUTS				136.6	287.	5040.			
SUM MORTALITY				60.2	453.	1954.			
YEARLY MORTALITY			10.79	.4	1	17.			
80 72	127.0	113.1	14.75	168.2	142.	7557.	176.	183.	157.
YEARLY MORTALITY			12.04	.5	1.	23.			
85 77	131.3	117.1	15.51	182.1	139.	8398.	164.	183.	158.
YEARLY MORTALITY			13.36	.7	1	31.			
90 82	135.2	120.7	16.23	194.7	135.	9184.	153.	183.	158.
YEARLY MORTALITY			14.39	.8	1	41.			
95 87	138.9	124.1	16.93	206.2	132.	9916.	142.	183.	157.
95 87									
BEFORE	138.9	124.1	16.93	206.2	132.	9916.	142.	183.	157.
CUT			13.76	23.0	22.	1156.			
RESIDUAL	138.9	124.4	17.50	183.1	110.	8759.			
SUM CUTS				159.6	310.	6196.			
SUM MORTALITY				70.5	465.	2441.			
YEARLY MORTALITY			15.53	.5	0.	24.			
100 92	142.4	127.6	18.28	196.7	108.	9558.	154.	183.	158.
100 92									
HARVEST	142.4	127.6	18.28	196.7	108.	9558.	154.	183.	158.
SUM CUTS				356.3	417.	15755.			
SUM MORTALITY				72.7	467.	2550.			

TABLE 6B. — NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 48.					
BEFORE	9.8	193.1	370.	6419.	5880.
CUT	9.0	66.9	150.	2134.	1969.
RESIDUAL	10.3	126.2	220.	4285.	3911.
SUM CUTS		66.9	150.	2134.	1969.
SUM MORTALITY				372.	
TOTAL AGE 60.					
BEFORE	11.3	172.8	248.	6719.	6280.
CUT	9.9	38.5	72.	1489.	1383.
RESIDUAL	11.8	134.3	176.	5230.	4897.
SUM CUTS		105.4	223.	3623.	3352.
SUM MORTALITY				568.	
TOTAL AGE 76.					
BEFORE	13.5	184.5	185.	8123.	7724.
CUT	11.3	28.6	41.	1288.	1207.
RESIDUAL	14.1	155.8	144.	6835.	6517.
SUM CUTS		134.1	264.	4911.	4559.
SUM MORTALITY				812.	
TOTAL AGE 95.					
BEFORE	16.9	206.2	132.	9916.	9519.
CUT	13.8	23.0	22.	1156.	1103.
RESIDUAL	17.5	133.1	110.	8759.	8416.
SUM CUTS		157.1	286.	6067.	5662.
SUM MORTALITY				1299.	
TOTAL AGE 100.					
HARVEST	18.3	196.7	108.	9558.	9176.
SUM CUTS		353.8	394.	15626.	14838.
SUM MORTALITY				1407.	

D F S I W VERSION 1.0
TABLE 6B. — NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 48.								
BEFORE	10.8	168.5	264.	5663.	5351.	4685.	27180.	21079.
CUT	10.0	56.2	103.	1572.	1730.	1427.	8105.	6166.
RESIDUAL	11.3	112.2	161.	3791.	3621.	3258.	19075.	14913.
SUM CUTS		56.2	103.	1372.	1730.	1427.	8105.	6166.
SUM MORTALITY				87.				
TOTAL AGE 60.								
BEFORE	12.0	162.9	208.	6409.	6044.	5580.	34252.	27604.
CUT	10.6	34.7	57.	1372.	1280.	1108.	6525.	5040.
RESIDUAL	12.5	128.2	152.	5038.	4764.	4473.	27727.	22564.
SUM CUTS		99.9	160.	3244.	3010.	2535.	14629.	11206.
SUM MORTALITY				154.				
TOTAL AGE 76.								
BEFORE	14.2	180.3	164.	8002.	7589.	7302.	47033.	39667.
CUT	11.8	27.3	36.	1237.	1165.	1074.	6591.	5241.
RESIDUAL	14.3	153.0	128.	6765.	6423.	6228.	40442.	34426.
SUM CUTS		118.3	196.	4481.	4175.	3609.	21221.	16447.
SUM MORTALITY				255.				
TOTAL AGE 95.								
BEFORE	16.9	206.2	132.	9916.	9519.	9271.	61806.	54145.
CUT	13.8	23.0	22.	1156.	1103.	1052.	6726.	5608.
RESIDUAL	17.5	183.1	110.	8759.	8416.	8218.	55081.	48537.
SUM CUTS		141.3	218.	5637.	5278.	4661.	27946.	22055.
SUM MORTALITY				430.				
TOTAL AGE 100.								
HARVEST	18.3	196.7	108.	9558.	9176.	9030.	60627.	53690.
SUM CUTS		338.0	326.	15195.	14454.	13692.	88573.	75745.
SUM MORTALITY				538.				

D F S I M VERSION 1.0
 TABLE 6C. -- NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 I N S PLUS

SITE INDEX = 125. (50 YEARS BH)

STAND ORIGIN -- NATURAL.
 FIRST COMMERCIAL THINNING IS WANTED AT AGE 38.
 THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 4.
 COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
 39. 48. 60. 83.
 THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
 THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
 THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
 MUST BE AT LEAST 8.00 INCHES.
 THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
 AT LEAST 20. SQUARE FEET PER ACRE.
 THE BASAL AREA PER ACRE OF ALL TREES 5.4 INCHES PLUS MUST BE
 AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
 THINNING CAN OCCUR.

TOT BH		LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI CV4**	
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****		
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+	
20 13	42.3	33.0	3.91	97.5	1167.	1455.	258.		73.			
25 18	57.2	46.0	5.19	142.3	968.	2885.	298.		115.			
YEARLY MORTALITY			3.81	2.8	35.	72.						
30 23	70.7	58.2	6.43	173.5	771.	4395.	296.	153.	147.	110.	80.	
YEARLY MORTALITY			4.73	3.3	27.	101.						
35 28	83.1	69.4	7.58	193.9	619.	5734.	268.	184.	165.	137.	117.	
39 32												
BEFORE	92.1	77.8	8.46	205.8	527.	6819.	254.	202.	175.	152.	138.	
CUT			8.62	63.6	169.	2273.						
RESIDUAL	90.7	77.7	8.39	137.2	357.	4547.						
SUM CUTS				68.6	169.	2273.						
SUM MORTALITY				36.2	350.	1070.						
YEARLY MORTALITY			4.78	.9	8.	33.						
40 33	92.9	79.8	8.63	142.2	350.	4831.	284.	205.	178.	156.	141.	
YEARLY MORTALITY			5.56	.9	6.	36.						
45 38	103.0	89.6	9.70	163.6	319.	6180.	262.	216.	188.	169.	157.	
48 41												
BEFORE	108.6	94.9	10.28	174.6	303.	6951.	255.	221.	192.	174.	163.	
CUT			9.41	37.4	77.	1501.						
RESIDUAL	108.6	95.1	10.56	137.2	226.	5450.						
SUM CUTS				106.0	247.	3774.						
SUM MORTALITY				44.8	404.	1391.						

D F S I M VERSION 1.0
TABLE 6C. -- NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40 HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY		6.51	.4	2	17.				
50 43	112.2 98.6	10.96	145.6	222.	5978.	261.	224.	195.	178.
YEARLY MORTALITY		7.29	.6	2	28.				
55 48	120.5 106.8	11.90	163.7	212.	7211.	239.	228.	200.	184.
YEARLY MORTALITY		8.09	.9	2	42.				
60 53	128.2 114.2	12.50	178.9	200.	8356.	222.	231.	202.	188.
60 53									
BEFORE	128.2 114.2	12.80	178.9	200.	8356.	222.	231.	202.	188.
CUT		10.83	35.3	55.	1669.				
RESIDUAL	123.2 114.9	13.47	143.6	145.	6686.				
SUM CUTS		141.3	302.	5443.					
SUM MORTALITY		52.2	430.	1724.					
YEARLY MORTALITY		9.43	.4	1	18.				
65 58	135.2 121.9	14.45	160.5	141.	7854.	228.	232.	205.	191.
YEARLY MORTALITY		10.31	.4	1.	23.				
70 63	141.7 128.3	15.32	175.8	137.	8971.	220.	233.	206.	193.
YEARLY MORTALITY		11.19	.6	1.	32.				
75 68	147.7 134.1	16.17	189.8	133.	10038.	209.	234.	206.	194.
YEARLY MORTALITY		12.28	.8	1	43.				
80 73	153.3 139.6	17.00	202.5	128.	11047.	197.	234.	206.	194.
83 76									
BEFORE	156.5 142.6	17.40	209.6	126.	11622.	189.	234.	206.	194.
CUT		14.21	28.8	26.	1661.				
RESIDUAL	156.5 143.2	18.25	130.8	99.	9961.				
SUM CUTS		170.1	328.	7104.					
SUM MORTALITY		64.7	449.	2394.					
YEARLY MORTALITY		15.05	.4	0.	21.				
85 78	158.5 145.2	15.62	186.9	99.	10402.	218.	235.	206.	194.
YEARLY MORTALITY		16.30	.5	0.	28.				
90 83	163.4 149.9	19.46	201.0	97.	11440.	201.	235.	206.	194.
YEARLY MORTALITY		17.22	.6	0.	37.				
95 88	168.0 154.2	20.26	213.7	95.	12406.	188.	234.	205.	194.
YEARLY MORTALITY		17.88	.8	0.	48.				
100 93	172.2 158.3	21.05	225.4	93.	13305.	174.	234.	204.	193.
100 93									
HARVEST	172.2 158.3	21.05	225.4	93.	13305.	174.	234.	204.	193.
SUM CUTS		395.4	421.	20409.					
SUM MORTALITY		74.2	455.	2948.					

D F S I M VERSION 1.0
 TABLE 6C. -- NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 39.					
BEFORE	9.7	181.4	370.	6488.	5935.
CUT	9.0	66.6	150.	2166.	2000.
RESIDUAL	10.2	124.8	220.	4322.	3935.
SUM CUTS		66.6	150.	2166.	2000.
SUM MORTALITY				317.	
TOTAL AGE 48.					
BEFORE	11.1	169.5	253.	6832.	6366.
CUT	9.7	36.7	71.	1465.	1360.
RESIDUAL	11.6	132.7	182.	5367.	5006.
SUM CUTS		103.3	222.	3632.	3360.
SUM MORTALITY				454.	
TOTAL AGE 60.					
BEFORE	13.3	178.4	185.	8356.	7906.
CUT	11.0	35.0	53.	1655.	1557.
RESIDUAL	14.1	143.4	133.	6701.	6349.
SUM CUTS		138.3	274.	5236.	4917.
SUM MORTALITY				639.	
TOTAL AGE 83.					
BEFORE	17.5	209.6	126.	11622.	11157.
CUT	14.2	23.8	26.	1661.	1587.
RESIDUAL	18.3	180.8	99.	9961.	9570.
SUM CUTS		167.1	301.	6947.	6504.
SUM MORTALITY				1092.	
TOTAL AGE 100.					
HARVEST	21.0	225.4	93.	13305.	12773.
SUM CUTS		392.5	394.	20252.	19277.
SUM MORTALITY				1646.	

D F S I M VERSION 1.0
TABLE 6C. -- NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

		BASAL AREA PER ACRE	TREES PER ACRE					
	DBH INCHES	SQ. FT.		CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 39.								
BEFORE	10.8	165.9	260.	5698.	5376.	4709.	27377.	21220.
CUT	10.0	55.7	103.	1896.	1751.	1440.	8189.	6235.
RESIDUAL	11.3	110.2	158.	3803.	3625.	3269.	19188.	14985.
SUM CUTS		55.7	103.	1896.	1751.	1440.	8189.	6235.
SUM MORTALITY				68.				
TOTAL AGE 48.								
BEFORE	11.8	158.2	207.	6480.	6082.	5619.	34611.	27796.
CUT	10.4	32.7	55.	1339.	1248.	1070.	6300.	4864.
RESIDUAL	12.3	125.5	152.	5140.	4834.	4549.	28312.	22933.
SUM CUTS		88.4	158.	3235.	2999.	2510.	14488.	11099.
SUM MORTALITY				109.				
TOTAL AGE 60.								
BEFORE	13.8	172.2	167.	8174.	7700.	7430.	48146.	40363.
CUT	11.4	33.1	47.	1581.	1485.	1348.	8243.	6512.
RESIDUAL	14.6	139.2	120.	6593.	6215.	6082.	39904.	33850.
SUM CUTS		121.5	204.	4816.	4484.	3857.	22731.	17611.
SUM MORTALITY				177.				
TOTAL AGE 83.								
BEFORE	17.8	208.8	120.	11567.	11135.	10918.	74582.	65997.
CUT	14.2	28.5	26.	1645.	1584.	1516.	9799.	8256.
RESIDUAL	18.7	180.3	95.	9922.	9551.	9402.	64783.	57741.
SUM CUTS		140.9	230.	6462.	6068.	5373.	32531.	25867.
SUM MORTALITY				378.				
TOTAL AGE 100.								
HARVEST	21.0	225.4	93.	13305.	12773.	12645.	88564.	80421.
SUM CUTS		375.3	323.	19767.	18841.	18018.	121094.	106288.
SUM MORTALITY				600.				

TABLE 6D. -- NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

STAND ORIGIN -- NATURAL.

FIRST COMMERCIAL THINNING IS WANTED AT AGE 33.

THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 5.

COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:

33. 40. 50. 75. 99.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.

THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
MUST BE AT LEAST 8.00 INCHES.

THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
AT LEAST 20. SQUARE FEET PER ACRE.

THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
THINNING CAN OCCUR.

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	E T	GROSS	NET
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+
								5.6+	7.6+
20 14	51.9	41.4	4.72	127.8	1053.	2348.	346.		117.
YEARLY MORTALITY			3.56	2.9	42.	74.			
25 19	68.8	56.6	6.24	170.3	802.	4199.	377.	173.	168.
YEARLY MORTALITY			4.70	4.0	33.	124.			
30 24	84.3	70.8	7.65	195.7	614.	5953.	338.	221.	198.
33 27									
BEFORE	92.9	78.8	8.45	206.4	530.	6941.	326.	243.	210.
CUT			8.61	68.8	170.	2314.			
RESIDUAL	91.5	78.7	8.38	137.6	360.	4627.			
SUM CUTS				63.8	170.	2314.			
SUM MORTALITY				35.7	356.	1068.			
YEARLY MORTALITY			4.81	1.0	8.	36.			
35 29	97.0	84.1	8.94	149.5	343.	5345.	355.	251.	219.
YEARLY MORTALITY			5.65	1.0	6.	42.			
40 34	109.8	96.4	10.13	173.7	311.	7049.	333.	267.	234.
40 34									
BEFORE	109.8	96.4	10.13	173.7	311.	7049.	333.	267.	234.
CUT			9.34	36.1	76.	1478.			
RESIDUAL	109.8	96.6	10.37	137.6	235.	5571.			

D F S I M VERSION 1.0
TABLE 6D. -- NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET
YRS YRS	FEET	FEET	INCH	sq ft	ACRE	ACRE	CVTS	1.6+	1.6+
								5.6+	7.6+
SUM CUTS				104.9	246.	3791.			
SUM MORTALITY				42.7	405.	1336.			
YEARLY MORTALITY				6.65	.6	3.	29.		
45 39	121.4	108.0	11.50	160.6	223.	7202.	314.	277.	244.
YEARLY MORTALITY				7.50	.9	3.	47.		
50 44	132.1	118.5	12.55	178.6	208.	8701.	292.	283.	250.
50 44								232.	219.
BEFORE	132.1	118.5	12.55	178.6	208.	8701.	292.	283.	250.
CUT			10.67	40.9	66.	2014.			
RESIDUAL	132.1	119.4	13.33	137.6	142.	6687.			
SUM CUTS				145.9	312.	5806.			
SUM MORTALITY				49.5	432.	1652.			
YEARLY MORTALITY				8.94	.4	1.	22.		
55 49	141.8	13.3	14.48	156.3	137.	8137.	283.	285.	253.
YEARLY MORTALITY				9.86	.4	1a	23.		
60 54	150.8	138.3	15.47	172.9	132.	9538.	279.	287.	256.
YEARLY MORTALITY				10.77	.6	1.	34.		
65 59	159.1	146.6	16.40	188.2	128.	10907.	269.	288.	257.
YEARLY MORTALITY				11.72	.8	1.	48.		
70 64	166.7	154.4	17.33	201.9	123.	12213.	255.	289.	257.
YEARLY MORTALITY				12.71	1.0	1a	63.		
75 69	173.9	161.6	18.25	214.3	118.	13440.	237.	290.	257.
75 69								242.	236.
BEFORE	173.9	161.6	18.25	214.3	118.	13440.	237.	290.	257.
CUT			14.84	33.7	28.	2195.			
RESIDUAL	173.9	162.5	19.20	180.6	90.	11246.			
SUM CUTS				179.6	340.	8000.			
SUM MORTALITY				64.1	456.	2508.			
YEARLY MORTALITY				14.48	.4	0.	27.		
80 74	180.6	169.4	20.22	196.0	88.	12588.	262.	290.	257.
YEARLY MORTALITY				15.66	.5	0.	35.		
85 79	186.8	175.8	21.16	209.9	86.	13851.	247.	290.	257.
								243.	237.

DFSIM VERSION 1.0

TABLE 6D. — NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40 HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY		17.48	.7	0.	46.				
90 84	192.7 131.8	22.05	222.7	84.	15042.	233.	289.	256.	242. 237.
YEARLY MORTALITY		19.20	.8	0.	59.				
95 89	198.2 187.3	22.90	234.4	82.	16160.	217.	289.	254.	241. 236.
9993									
BEFORE		202.3 191.4	23.56 243.0	80. 16996.	204.	288.	252.	239.	234.
CUT			19.74 25.0	12. 1838.					
RESIDUAL		202.3 191.8	24.16 218.0	68. 15158.					
SUM CUTS			204.6	352. 9838.					
SUM MORTALITY			79.2	466. 3539.					
YEARLY MORTALITY		20.69	.5	0.	36.				
100 94	203.3 192.9	24.35	220.7	68. 15399.	240.	288.	252.	239.	234.
100 94									
HARVEST		203.3 192.9	24.35 220.7	68. 15399.	240.	288.	252.	239.	234.
SUM CUTS			425.3	420. 25237.					
SUM MORTALITY			79.7	466. 3575.					

D F S I M VERSION 1.0

TABLE 6D. — NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 33.					
BEFORE	9.7	191.8	370.	6600.	6038.
CUT	9.0	66.7	151.	2204.	2036.
RESIDUAL	10.2	125.0	219.	4396.	4002.
SUM CUTS		66.7	151.	2204.	2036.
SUM MORTALITY				301.	
TOTAL AGE 40.					
BEFORE	11.0	168.0	254.	6914.	6434.
CUT	9.7	35.4	69.	1440.	1336.
RESIDUAL	11.5	132.7	185.	5475.	5098.
SUM CUTS		102.1	220.	3644.	3372.
SUM MORTALITY				406.	
TOTAL AGE 50.					
BEFORE	13.1	177.8	189.	8701.	8215.
CUT	10.9	40.6	63.	1994.	1875.
RESIDUAL	14.1	137.2	126.	6708.	6340.
SUM CUTS		142.7	283.	5638.	5247.
SUM MORTALITY				566.	
TOTAL AGE 75.					
BEFORE	18.3	214.3	118.	13440.	12903.
CUT	14.8	33.7	28.	2195.	2102.
RESIDUAL	19.2	180.6	90.	11246.	10801.
SUM CUTS		176.5	311.	7832.	7349.
SUM MORTALITY				1112.	

D F S I H VERSION 1.0
TABLE 6D. -- NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 99.					
BEFORE	23.6	243.0	80.	16996.	16316.
CUT	19.7	25.0	12.	1838.	1764.
RESIDUAL	24.2	218.0	68.	15158.	14552.
SUM CUTS		201.4	323.	9670.	9113.
SUM MORTALITY				1909.	
TOTAL AGE 100.					
HARVEST	24.3	220.7	68.	15399.	14783.
SUM CUTS		422.1	391.	25069.	23896.
SUM MORTALITY				1938.	

D F S I M VERSION 1.0
 TABLE 6D. -- NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 33.								
BEFORE	10.8	166.3	260.	5802.	5469.	4800.	27964.	21685.
CUT	10.0	55.8	103.	1929.	1782.	1465.	8345.	6358.
RESIDUAL	11.3	110.5	157.	3873.	3687.	3335.	19619.	15327.
SUM CUTS		55.8	103.	1929.	1782.	1465.	8345.	6358.
SUM MORTALITY				60.				
TOTAL AGE 40.								
BEFORE	11.8	156.2	206.	6541.	6124.	5664.	34947.	28021.
CUT	10.4	31.4	53.	1311.	1221.	1042.	6139.	4739.
RESIDUAL	12.2	124.8	153.	5230.	4903.	4621.	28808.	23282.
SUM CUTS		87.2	156.	3240.	3003.	2508.	14483.	11097.
SUM MORTALITY				90.				
TOTAL AGE 50.								
BEFORE	13.7	170.5	167.	8487.	7956.	7709.	50217.	42026.
CUT	11.2	38.1	55.	1897.	1780.	1604.	9808.	7735.
RESIDUAL	14.7	132.4	112.	6590.	6176.	6105.	40409.	34291.
SUM CUTS		125.3	212.	5138.	4783.	4112.	24292.	18832.
SUM MORTALITY				144.				
TOTAL AGE 75.								
BEFORE	18.3	214.3	118.	13440.	12903.	12688.	88360.	78934.
CUT	14.8	33.7	28.	2195.	2102.	2013.	13138.	11208.
RESIDUAL	19.2	180.6	90.	11246.	10801.	10675.	75222.	67726.
SUM CUTS		159.0	240.	7332.	6885.	6125.	37430.	30040.
SUM MORTALITY				374.				

D F S I M VERSION 1.0
 TABLE 6D. -- NATURAL ("NORMAL") WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 99.								
BEFORE	23.6	243.0	80.	16996.	16316.	16153.	113879.	107924.
CUT	19.7	25.0	12	1838.	1764.	1735.	11856.	10983.
RESIDUAL	24.2	218.0	68.	15158.	14552.	14418.	102024.	96942.
SUM CUTS		184.0	251.	9170.	8649.	7860.	49285.	41023.
SUM MORTALITY				1171.				
TOTAL AGE 100.								
HARVEST	24.3	220.7	68.	15399.	14783.	14635.	103177.	98519.
SUM CUTS		404.7	320.	24569.	23432.	22495.	152462.	139542.
SUM MORTALITY				1201.				

D F S I M VERSION 1.0
 TABLE 7A — PLANTED WITH REPEATED COMMERCIAL THINNING
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

STAND ORIGIN --- PLANTED TO 400. TREES PER ACRE.
 FIRST COMMERCIAL THINNING IS WANTED AT AGE 45.
 THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 4.
 COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
 45. 59. 74. 89.
 THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
 THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
 THE AVERAGE DIAMETER OF ALL CUT TREES (IT COMMERCIAL THINNINGS
 MUST BE AT LEAST 8.00 INCHES.
 THE BASAL AREA CUT (IT EACH COMMERCIAL THINNING MUST BE
 AT LEAST 20. SQUARE FEET PER ACRE.
 THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
 AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
 THINNING CAN OCCUR.

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	LOREY HT FEET	BASAL DBH INCH	BASAL AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	#MAI GROSS 1.6+	CVTS* NET 1.6+	**MAI NET 5.6+	CV4** 7.6+
20	11	26.3	21.7	3.13	22.0	400.	224.	55.		11.		
25	16	36.5	31.9	4.56	45.3	400.	635.	99.		25.		
30	21	45.9	40.5	5.70	70.2	306.	1225.	129.		41.		
YEARLY MORTALITY				3.79	.1	1.	2.					
35	26	54.4	43.2	6.70	96.0	393.	1967.	157.	56.	56.	42.	24.
YEARLY MORTALITY				4.89	.3	2.	7.					
40	31	62.0	55.1	7.59	120.1	383.	2787.	167.	70.	70.	58.	44.
YEARLY MORTALITY				5.79	.7	4.	17.					
45	36	68.9	61.1	8.41	141.7	368.	3618.	165.	82.	80.	70.	60.
4536												
BEFORE		68.9	61.1	8.41	141.7	368.	3613.	165.	82.	80.	70.	60.
CUT				8.41	33.2	86.	848.					
RESIDUAL		68.9	61.1	8.41	108.4	281.	2770.					
SUM CUTS					33.2	86.	848.					
SUM MORTALITY					3.8	29.	92.					
YEARLY MORTALITY				5.45	.2	1.	5.					
50	41	75.2	66.9	9.33	131.2	276.	3641.	171.	92.	90.	80.	73.
YEARLY MORTALITY				6.13	.4	2.	11.					
55	46	80.8	72.2	10.15	151.1	269.	4481.	166.	100.	97.	88.	83.
59 50												
BEFORE		85.0	76.0	10.78	165.4	261.	5131.	160.	105.	101.	93.	89.
CUT				9.67	34.1	67.	1075.					
RESIDUAL		85.0	76.2	11.14	131.2	194.	4056.					
SUM M S					67.3	153.	1923.					
SUM MORTALITY					7.8	49.	212.					

D F S I M VERSION 1.0
TABLE 7A. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	#MAI	CVTS*	***MAI	CV4**
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	***NET***	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY				8.38	.1	0.	5.					
60	51	86.0	77.1	11.32	135.3	194.	4226.	170.	106.	102.	95.	90.
YEARLY MORTALITY				9.21	.2	1.	a.					
65	56	90.7	81.5	12.16	154.2	191.	5044.	160.	111.	107.	100.	96.
YEARLY MORTALITY				10.01	.4	1.	14.					
70	61	95.0	85.4	12.92	171.2	188.	5820.	152.	115.	111.	103.	100.
74	65											
BEFORE				98.2	88.3	13.50	183.6	185.	6413.	146.	118.	113.
CUT						11.27	28.8	42.	1040.			106.
RESIDUAL				98.2	88.6	14.08	154.8	143.	5372.			103.
SUM CUTS						96.1	195.	2963.				
SUM MORTALITY						12.6	58.	375.				
YEARLY MORTALITY				11.27	.2	0.	7.					
75	66	99.0	89.3	14.26	158.5	143.	5534.	161.	118.	113.	106.	104.
YEARLY MORTALITY				12.20	.3	0.	11.					
80	71	102.7	92.6	15.10	175.7	141.	6302.	150.	121.	116.	109.	107.
YEARLY MORTALITY				13.10	.4	0.	16.					
85	76	106.1	95.7	15.87	191.3	139.	7024.	141.	123.	117.	111.	109.
8980												
BEFORE				108.6	97.9	16.47	203.0	137.	7571.	134.	125.	118.
CUT						13.40	24.8	25.	980.			112.
RESIDUAL				108.6	98.1	17.09	178.1	112.	6591.			110.
SUM CUTS						121.0	220.	3943.				
SUM MORTALITY						18.0	64.	574.				
YEARLY MORTALITY				14.53	.2	0.	9.					
90	81	109.2	98.7	17.27	181.5	112.	6740.	149.	125.	119.	112.	110.
YEARLY MORTALITY				15.37	.4	0.	13.					
95	86	112.2	101.3	18.11	197.5	110.	7449.	138.	127.	120.	113.	111.
YEARLY MORTALITY				16.05	.5	0.	18.					
100	91	114.9	103.7	18.92	212.4	109.	8114.	130.	128.	121.	114.	112.
100 91												
HARVEST				114.9	103.7	18.92	212.4	109.	8114.	130.	128.	121.
SUM CUTS						333.4	329.	12057.				
SUM MORTALITY						21.8	67.	724.				

D F S I M VERSION 1.0
TABLE 7A. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBICFEET PER ACRE	CUBICFEET PER ACRE 4-INCH TOP
TOTAL AGE 45.					
BEFORE	8.9	137.2	316.	3528.	3167.
CUT	8.06	32.5	81.	814.	736.
RESIDUAL	9.0	104.7	236.	2714.	2431.
SUM CUTS		32.5	81.	814.	736.
SUM MORTALITY				38.	
TOTAL AGE 59.					
BEFORE	10.9	164.3	254.	5119.	4773.
CUT	9.8	33.9	64.	1061.	979.
RESIDUAL	11.2	130.5	190.	4058.	3794.
SUM CUTS		66.4	145.	1875.	1715.
SUM MORTALITY				107.	
TOTAL AGE 74.					
BEFORE	13.5	183.6	185.	6413.	6104.
CUT	11.3	28.8	42.	1040.	974.
RESIDUAL	14.1	154.8	143.	5372.	5130.
SUM CUTS		95.2	186.	2916.	2689.
SUM MORTALITY				247.	
TOTAL AGE 89.					
BEFORE	16.5	203.0	137.	7571.	7268.
CUT	13.4	24.8	25.	980.	933.
RESIDUAL	17.1	178.1	112.	6591.	6336.
SUM CUTS		120.0	212.	3896.	3622.
SUM MORTALITY				444.	
TOTAL AGE 100.					
HARVEST	18.9	212.4	109.	8114.	7789.
SUM CUTS		332.4	321.	12009.	11411.
SUM MORTALITY				603.	

D F S I M VERSION 1.0
TABLE 7A. — PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	116	SV6
TOTAL AGE 45.								
BEFORE	9.9	112.8	211.	2905.	2715.	2204.	11699.	8709.
CUT	9.7	26.3	52.	684.	628.	505.	2660.	1945.
RESIDUAL	10.0	86.5	160.	2220.	2086.	1700.	9039.	6964.
SUM CUTS		26.3	52.	684.	628.	505.	2660.	1945.
SUM MORTALITY				12.				
TOTAL AGE 59.								
BEFORE	11.4	157.7	221.	4876.	4599.	4106.	23541.	18547.
CUT	10.6	30.9	50.	980.	917.	794.	4497.	3414.
RESIDUAL	11.6	126.8	171.	3896.	3682.	3312.	19044.	15133.
SUM CUTS		57.2	102.	1664.	1545.	1299.	7156.	5359.
SUM MORTALITY				41.				
TOTAL AGE 74.								
BEFORE	13.8	182.0	176.	6356.	6063.	5716.	34547.	28547.
CUT	11.9	27.9	36.	1008.	954.	876.	5213.	4096.
RESIDUAL	14.2	154.1	140.	5348.	5109.	4840.	29335.	24451.
SUM CUTS		85.1	138.	2672.	2499.	2175.	12369.	9455.
SUM MORTALITY				122.				
TOTAL AGE 89.								
BEFORE	16.5	203.0	137.	7571.	7268.	9043.	44089.	37784.
CUT	13.4	24.8	25.	980.	933.	895.	5541.	4550.
RESIDUAL	17.1	178.1	112.	6591.	6336.	6149.	38548.	33234.
SUM CUTS		110.0	163.	3652.	3431.	3069.	17910.	14005.
SUM MORTALITY				256.				
TOTAL AGE 100.								
HARVEST	18.9	212.4	109.	8114.	7789.	7682.	48985.	42900.
SUM CUTS		322.3	272.	11766.	11220.	10751.	66895.	56904.
SUM MORTALITY				414.				

D F S I H VERSION 1.0
TABLE 7B. -- PLANTED WITH REPEATED COMMERCIAL THINNING
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
16 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

STAND ORIGIN -- PLANTED TO 400. TEEES PER ACRE.
FIRST COMMERCIAL THINNING IS WANTED AT AGE 37.
THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 4.
COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
37. 50. 67. 85.
THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
MUST BE AT LEAST 8.00 INCHES.
THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
AT LEAST 20. SQUARE FEET PER ACRE.
THE BASAL AREA PER ACRE OF ALL TREES 56 INCHES PLUS MUST BE
AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
THINNING CAN OCCUR.

TOT. BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
20 12	33.8	29.4	4.21	38.7	400.	506.	112.		25.		
25 17	46.4	41.2	5.76	71.9	397.	1273.	177.		51.		
YEARLY MORTALITY			3.63	.1	2.	3.					
30 22	58.0	51.5	6.98	104.0	392.	2277.	215.	76.	76.	59.	38.
YEARLY MORTALITY			4.74	.5	4.	14.					
35 27	68.4	60.7	8.08	132.8	373.	3394.	226.	99.	97.	83.	69.
37 29											
BEFORE	72.3	64.1	8.50	143.0	363.	3846.	226.	106.	104.	91.	80.
CUT			8.50	39.5	100.	1057.					
RESIDUAL	72.3	64.2	8.50	103.6	263.	2789.					
SUM CUTS				39.5	100.	1057.					
SUM MORTALITY				3.6	34.	92.					
YEARLY MORTALITY			5.06	.1	1	4					
40 32	77.9	69.4	9.20	120.4	261.	3484.	230.	116.	114.	101.	92.
YEARLY MORTALITY			5.81	.3	2	9					
45 37	86.4	77.3	10.21	144.6	254.	4621.	226.	129.	126.	115.	108.
YEARLY MORTALITY			6.56	.5	2.	18.					
50 42	94.1	84.5	11.14	165.6	245.	5735.	220.	140.	136.	125.	120.
50 42											
BEFORE	94.1	84.5	11.14	165.6	245.	5735.	220.	140.	136.	125.	120.
CUT			9.86	37.4	71.	1314.					
RESIDUAL	94.1	84.8	11.62	128.2	174.	4421.					
SUM CUTS				76.9	171.	2371.					
SUM MORTALITY				7.1	52.	205.					

D F S I M VERSION 1.0
TABLE 7B. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40 HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY		7.70	.2	1	7.				
55 47	101.1 91.5	12.66	149.8	171.	5521.	215.	148.	144.	134.
YEARLY MORTALITY		8.53	.3	1.	13.				
60 52	107.5 97.5	13.58	168.9	168.	6575.	208.	154.	149.	140.
YEARLY MORTALITY		9.66	.5	1.	21.				
65 57	113.3 103.0	14.46	186.1	163.	7588.	199.	159.	153.	144.
67 59									
BEFORE	115.5 105.1	14.80	192.5	161.	7980.	195.	161.	154.	146.
CUT		12.17	34.1	42.	1465.				
RESIDUAL	115.5 105.6	15.63	158.5	119.	6514.				
SUM CUTS			110.9	213.	3837.				
SUM MORTALITY			12.5	65.	422.				
YEARLY MORTALITY		12.63	.2	0.	9.				
70 62	118.7 108.6	16.24	170.0	118.	7143.	206.	163.	157.	148.
YEARLY MORTALITY		13.64	.3	0.	14.				
75 67	123.7 113.3	17.16	187.5	117.	8137.	194.	166.	160.	151.
YEARLY MORTALITY		14.63	.5	0.	21.				
80 72	128.2 117.6	18.02	203.5	115.	9078.	184.	169.	161.	153.
YEARLY MORTALITY		15.62	.6	0.	30.				
85 77	132.5 121.5	18.84	218.2	113.	9968.	174.	171.	162.	154.
85 77									
BEFORE	132.5 121.5	18.84	218.2	113.	9968.	174.	171.	162.	154.
CUT		15.34	29.6	23.	1434.				
RESIDUAL	132.5 121.8	19.64	188.6	90.	8534.				
SUM CUTS			140.5	236.	5271.				
SUM MORTALITY			19.3	71.	729.				
YEARLY MORTALITY		17.43	.3	0.	16.				
90 82	136.5 125.5	20.61	205.5	89.	9475.	182.	173.	164.	155.
YEARLY MORTALITY		18.26	.5	0.	22.				
95 87	140.2 129.0	21.51	221.0	88.	10353.	171.	174.	164.	156.
YEARLY MORTALITY		19.00	.6	0.	29.				
100 92	143.6 132.1	22.39	235.4	86.	11177.	160.	175.	164.	156.
100 92									
HARVEST	143.6 132.1	22.39	235.4	86.	11177.	160.	175.	164.	156.
SUM CUTS			375.9	322.	16448.				
SUM MORTALITY			25.6	75.	1027.				

D F S I M VERSION 1.0
TABLE 7B. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBICFEET PER ACRE	CUBICFEET PER ACRE 4-INCH TOP
TOTAL AGE 37.					
BEFORE	9.1	138.3	306.	3749.	3381.
CUT	8.7	38.6	93.	1018.	923.
RESIDUAL	9.3	99.7	213.	2731.	2458.
SUM CUTS		38.6	93.	1018.	923.
SUM MORTALITY				29.	
TOTAL AGE 50.					
BEFORE	11.4	164.0	230.	5707.	5349.
CUT	10.1	37.1	67.	1297.	1202.
RESIDUAL	12.0	127.0	162.	4410.	4147.
SUM CUTS		75.7	161.	2315.	2126.
SUM MORTALITY				88.	
TOTAL AGE 67.					
BEFORE	14.8	192.5	161.	7980.	7634.
CUT	12.2	34.1	42.	1465.	1384.
RESIDUAL	15.6	158.5	119.	6514.	6250.
SUM CUTS		109.8	203.	3780.	3510.
SUM MORTALITY				253.	
TOTAL AGE 85.					
BEFORE	18.8	218.2	113.	9968.	9569.
CUT	15.3	29.6	23.	1434.	1374.
RESIDUAL	19.6	188.6	90.	8534.	8195.
SUM CUTS		139.4	226.	5214.	4884.
SUM MORTALITY				561.	
TOTAL AGE 100.					
HARVEST	22.4	235.4	86.	11177.	10730.
SUM CUTS		374.7	312.	16391.	15614.
SUM MORTALITY				858.	

D F S I M VERSION 1.0
TABLE 7B. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 37.								
BEFORE	10.0	116.0	211	3147.	2953.	2428.	13148.	9904.
CUT	9.8	31.7	61	866.	797.	646.	3460.	2554.
RESIDUAL	80.2	84.3	150.	2281.	2157.	1782.	9688.	7350.
SUM CUTS		31.7	61	866.	797.	646.	3460.	2554.
SUM MORTALITY				7.				
TOTAL AGE 50.								
BEFORE	12.0	158.0	203.	5489.	5208.	4745.	28187.	22606.
CUT	10.8	34.1	54.	1208.	1131.	991.	5745.	4413.
RESIDUAL	12.3	123.9	149.	4281.	4077.	3754.	22442.	13193.
SUM CUTS		65.3	114.	2074.	1928.	1636.	9205.	6967.
SUM MORTALITY				28.				
TOTAL AGE 67.								
BEFORE	15.1	191.5	154.	7941.	7594.	7295.	46368.	39414.
CUT	12.6	33.4	38.	1436.	1377.	1281.	7895.	6358.
RESIDUAL	15.8	158.1	116.	6505.	6217.	6014.	38473.	33056.
SUM CUTS		99.1	153.	3510.	3305.	2917.	17100.	13325.
SUM MORTALITY				115.				
TOTAL AGE 85.								
BEFORE	13.3	218.2	113.	9'968.	9569.	9421.	62309.	55140.
CUT	15.3	29.6	23.	1434.	1374.	1345.	8698.	7454.
RESIDUAL	19.6	188.6	90.	8534.	8195.	8076.	53611.	47685.
SUM CUTS		128.7	176.	4944.	4679.	4263.	25798.	20779.
SUM MORTALITY				314.				
TOTAL AGE 100.								
HARVEST	22.4	235.4	86.	11177.	10730.	10622.	72242.	65449.
SUM CUTS		364.1	262.	16121.	15409.	14885.	98039.	86228.
SUM MORTALITY				611.				

D F S I H VERSION 1.0
 TABLE 7C. -- PLANTED WITH REPEATED COMMERCIAL THINNING
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

STAND ORIGIN — PLANTED TO 400. TREES PER ACRE.
 FIRST COMMERCIAL THINNING IS WTED AT AGE 31.
 THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 5.
 COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
 31. 42. 59. 79. 97.
 THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
 THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
 THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
 MUST BE AT LEAST 8.00 INCHES.
 THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
 AT LEAST 20. SQUARE FEET PER ACRE.
 THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
 AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
 THINNING CAN OCCUR.

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	LOREY HT FEET	BASAL DBH INCH	BASAL AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	*MAI GROSS 1.6+	CVTS* NET 1.6+	***MAI ****NET**** 5.6+	CV4** 7.6+
15	8	24.6	22.2	3.23	22.8	400.	236.	82.		16.		
20	13	42.3	37.5	5.28	60.7	399.	987.	194.		49.		
YEARLY MORTALITY				3.63	.1	1	2					
25	18	57.2	50.9	6.84	100.6	394.	2180.	264.	87.	87.	67.	41.
YEARLY MORTALITY				4.35	.7	6.	18.					
30	23	70.7	62.9	8.20	135.6	370.	3592.	290.	122.	120.	104.	88.
31	24											
BEFORE		73.3	65.1	8.46	141.8	364.	3883.	291.	128.	125.	110.	96.
CUT				8.46	38.9	100.	1062.					
RESIDUAL		73.3	65.2	8.46	102.9	264.	2821.					
SUM CUTS					38.9	100.	1062.					
SUM MORTALITY					3.2	35.	82.					
YEARLY MORTALITY				5.11	.2	1	6					
35	28	83.1	74.4	9.56	129.5	260.	4014.	297.	148.	145.	131.	120.
YEARLY MORTALITY				5.93	.4	2.	15.					
40	33	94.2	84.8	10.70	156.7	251.	5492.	294.	168.	164.	150.	143.
42	35											
BEFORE		98.4	88.7	11.13	166.3	246.	6075.	291.	174.	170.	157.	150.
CUT				9.86	42.1	79.	1555.					
RESIDUAL		98.4	89.1	11.69	124.2	167.	4520.					
SUM CUTS					81.0	179.	2617.					
SUM MORTALITY					6.2	52.	188.					

D F S I M VERSION 1.0
TABLE 7C. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40 HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY		7.14	.1	1.	6.				
45 38	104.3 94.9	12.45	139.6	165.	5370.	280.	182.	177.	165.
YEARLY MORTALITY		8.03	.3	1.	11.				
50 43	113.5 103.7	13.54	161.9	162.	6744.	272.	192.	187.	175.
YEARLY MORTALITY		8.91	.4	1.	20.				
55 48	121.9 111.3	14.55	181.5	157.	8079.	264.	200.	194.	183.
59 52									
BEFORE		128.0 117.8	15.33	195.7	153.	9112.	255.	206.	199.
CUT			12.55	39.2	46.	1891.			188.
RESIDUAL		128.0 118.5	16.38	156.5	107.	7221.			183.
SUM CUTS			120.2	225.	4508.				
SUM MORTALITY			11.8	66.	431.				
YEARLY MORTALITY		10.50	.02	00	7.				
60 53	129.5 120.0	16.62	160.8	107.	7492.	272.	207.	200.	189.
YEARLY MORTALITY		11.56	.2	00	12.				185.
65 58	136.6 127.0	17.73	180.4	105.	3797.	255.	212.	205.	194.
YEARLY MORTALITY		13.51	.4	0.	19.				190.
70 63	143.1 133.4	18.73	198.0	104.	10038.	244.	216.	208.	197.
YEARLY MORTALITY		15.47	.5	0.	28.				194.
75 68	149.1 139.3	19.66	214.2	102.	11226.	233.	219.	210.	199.
79 72									196.
BEFORE		153.6 143.7	20.38	226.1	100.	12131.	222.	221.	211.
CUT			16.70	33.1	22.	1879.			200.
RESIDUAL		153.6 144.1	21.29	193.0	78.	10252.			197.
SUM CUTS			153.3	247.	6387.				
SUM MORTALITY			19.3	73.	824.				
YEARLY MORTALITY		17.53	.2	0.	13.				
80 73	154.7 145.2	21.51	196.7	78.	10502.	250.	222.	211.	200.
YEARLY MORTALITY		18.77	.4	0.	20.				197.
85 78	159.9 150.4	22.56	213.8	77.	11686.	230.	224.	213.	202.
									199.

D F S I M VERSION 1.0
 TABLE 7C. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 125, (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40 HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY		19.98	.5	0.	28.				
90 83	164.7 155.2	23.53	229.4	76.	12794.	216.	225.	213.	203.
YEARLY MORTALITY		20.77	.6	0.	37.				
95 88	169.3 159.6	24.46	243.8	75.	13837.	203.	226.	213.	202.
97 90									
BEFORE		171.0 161.3	24.83	249.3	74.	14235.	198.	226.	213.
CUT		21.03	26.5	11.	1612.				
RESIDUAL		171.0 161.5	25.43	222.8	63.	12623.			
SUM CUTS			179.8	258.	7999.				
SUM MORTALITY			27.6	77.	1294.				
YEARLY MORTALITY		22.12	.4	0.	23.				
100 93	173.6 164.1	26.06	232.3	63.	13272.	212.	226.	213.	202.
100 93									
HARVEST		173.6 164.1	26.06	232.3	63.	13272.	212.	226.	213.
SUM CUTS			412.1	320.	21271.				
SUM MORTALITY			28.7	78.	1359.				

D F S I M VERSION 1.0
 TABLE 7C. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 31.					
BEFORE	9.1	136.9	303.	3778.	3407.
CUT	8.7	38.0	93.	1020.	925.
RESIDUAL	9.3	98.8	210.	2758.	2482.
SUM CUTS		38.0	93.	1020.	925.
SUM MORTALITY				20.	
TOTAL AGE 42.					
BEFORE	11.6	164.3	226.	6033.	5659.
CUT	10.1	41.6	75.	1533.	1424.
RESIDUAL	12.2	122.7	150.	4499.	4236.
SUM CUTS		79.7	168.	2553.	2349.
SUM MORTALITY				68.	
TOTAL AGE 59.					
BEFORE	15.3	195.7	153.	9112.	8733.
CUT	12.5	31.2	46.	1891.	1792.
RESIDUAL	16.4	156.5	107.	7221.	6941.
SUM CUTS		118.9	213.	4445.	4141.
SUM MORTALITY				242.	
TOTAL AGE 79.					
BEFORE	20.4	226.1	100.	12131.	11646.
CUT	16.7	33.1	22.	1379.	1803.
RESIDUAL	21.3	193.0	78.	10252.	9842.
SUM CUTS		152.0	235.	6323.	5945.
SUM MORTALITY				615.	

D F S I M VERSION 1.0
 TABLE 7C. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 97.					
BEFORE	24.8	249.3	74.	14235.	13665.
CUT	21.0	26.5	11.	1612.	1548.
RESIDUAL	25.4	222.8	63.	12623.	12118.
SUM CUTS		178.5	246.	7935.	7492.
SUM MORTALITY				1085.	
TOTAL AGE 100.					
HARVEST	26.1	232.3	63.	13272.	12741.
SUM CUTS		410.8	309.	21208.	20234.
SUM MORTALITY				1194.	

DFSIM VERSION 1.0
 TABLE 7C. — ~~WED~~ WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

		BASAL AREA PER ACRE	TREES PER ACRE					
	DBH INCHES	SQ. FT.		CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 31.								
BEFORE	10.1	114.6	207.	3171.	2977.	2450.	13351.	10088.
CUT	9.8	31.1	60.	865.	796.	644.	3465.	2565.
RESIDUAL	10.2	83.5	148.	2305.	2182.	1806.	9886.	7523.
SUM CUTS		31.1	60.	865.	796.	644.	3465.	2565.
SUM MORTALITY				3.				
TOTAL AGE 42.								
BEFORE	12.1	157.7	198.	5804.	5512.	5056.	30442.	24532.
CUT	10.8	38.2	60.	1428.	1336.	1171.	6845.	5276.
RESIDUAL	12.6	119.5	138.	4376.	4176.	3885.	23598.	19256.
SUM CUTS		69.3	120.	2293.	2132.	1815.	10310.	7841.
SUM MORTALITY				18.				
TOTAL AGE 59.								
BEFORE	15.7	194.5	145.	9066.	8679.	8397.	54813.	47164.
CUT	12.9	38.4	42.	1857.	1781.	1669.	10448.	8503.
RESIDUAL	16.7	156.1	103.	7209.	6898.	6728.	44364.	38662.
SUM CUTS		107.7	162.	4150.	3913.	3484.	20758.	16343.
SUM MORTALITY				103.				
TOTAL AGE 79.								
BEFORE	20.4	226.1	100.	12131.	11646.	11529.	78854.	70994.
CUT	16.7	33.1	22.	1879.	1803.	1774.	11738.	10333.
RESIDUAL	21.3	193.0	78.	10252.	9842.	9755.	67116.	60661.
SUM CUTS		140.8	184.	6029.	5716.	5258.	32496.	26676s
SUM MORTALITY				342.				

D F S I M VERSION 1.0
 TABLE 7C. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SL6
TOTAL AGE 97.								
BEFORE	24.8	249.3	74.	14235.	13665.	13529.	95377.	88273.
CUT	21.0	26.5	11.	1612.	1548.	1532.	10534.	9919.
RESIDUAL	25.4	222.8	63.	12623.	12118.	11997.	84843.	78354.
SUM CUTS		167.3	195.	7641.	7264.	6790.	43030.	36596.
SUM MORTALITY				812.				
TOTAL AGE 100.								
HARVEST	26.1	232.3	63.	13272.	12741.	12614.	88929.	83228.
SUM CUTS		399.6	257.	20913.	20005.	19404.	131959.	119824.
SUM MORTALITY				921.				

D F S I M VERSION 1.0
 TABLE 7D. -- PLANTED WITH REPEATED COMMERCIAL THINNING
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

STAND ORIGIN --- PLANTED TO 400. TREES PER ACRE.
 FIRST COMMERCIAL THINNING IS WANTED AT AGE 27.
 THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 5.
 COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
 27. 36. 50. 69. 89.
 THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
 THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
 THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
 MUST BE AT LEAST 8.00 INCHES.
 THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
 AT LEAST 20. SQUARE FEET PER ACRE.
 THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
 AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
 THINNING CAN OCCUR.

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	LOREY HT FEET	BASAL DBH INCH	TREES AREA/A SQ FT	CVTS PER ACRE	CAI NET CVTS	*MAI GROSS 1.6+	CVTS* NET 1.6+	**MAI ****NET**** 5.6+	CV4** 7.6+
15	9	33.8	29.5	4.21	38.7	400.	506.	154.		34.	
YEARLY MORTALITY				3.64	.1	1.	1.				
20	14	51.9	46.3	6.31	86.3	397.	1709.	287.	86.	85.	60.
YEARLY MORTALITY				3.98	.6	7.	16.				
25	19	68.8	61.3	7.95	130.2	378.	3371.	350.	137.	135.	115.
27	21										95.
BEFORE		75.2	66.9	8.59	145.2	360.	4085.	358.	155.	151.	134.
CUT				8.59	41.1	102.	1152.				118.
RESIDUAL		75.2	67.1	8.59	104.0	258.	2933.				
SUM CUTS					41.1	102.	1152.				
SUM MORTALITY					3.4	38.	90.				
YEARLY MORTALITY				4.99	.2	1.	6.				
30	24	84.3	75.8	9.59	128.0	255.	4044.	368.	177.	173.	156.
YEARLY MORTALITY				5.90	.5	2.	17.				144.
35	29	98.4	89.0	10.94	160.2	245.	5890.	368.	206.	201.	185.
36	30										177.
BEFORE		101.0	91.5	11.19	165.7	243.	6256.	367.	211.	206.	190.
CUT				9.89	41.1	77.	1569.				182.
RESIDUAL		101.0	92.0	11.75	124.7	166.	4688.				
SUM CUTS					82.2	179.	2721.				
SUM MORTALITY					6.0	54.	183.				

D F S I M VERSION 1.0
TABLE 7D. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

TOT	BH		LOREY		BASAL	TREES		CVTS	CAI	*MAI	CVTS*	**MAI	CV4**		
AGE	AGE	HT40	HT		DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****			
YRS	YRS	FEET	FEET		INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+		
YEARLY MORTALITY					7.19	.2	1.	8.							
40	34	111.1	101.9		12.87	147.7	163.	6093.	347.	226.	220.	206.	199.		
YEARLY MORTALITY					8.13	.4	1.	17.							
45	39	122.8	113.2		14.06	171.7	159.	7803.	339.	240.	234.	220.	213.		
YEARLY MORTALITY					9.06	.6	1.	30.							
50	44	133.4	123.7		15.18	192.4	153.	9466.	327.	252.	244.	230.	224.		
50	44														
BEFORE					133.4	123.7	15.18	192.4	153.	9466.	327.	252.	244.	230.	224.
CUT							12.44	39.2	46.	1988.					
RESIDUAL					133.4	124.5	16.23	153.3	107.	7478.					
SUM CUTS							121.4	226.	4709.						
SUM MORTALITY							10.5	66.	392.						
YEARLY MORTALITY					10.79	.2	0.	12.							
55	49	143.1	134.5		17.50	175.5	105.	9135.	324.	260.	252.	238.	234.		
YEARLY MORTALITY					11.85	.3	0.	20.							
60	54	152.1	143.6		18.62	194.8	103.	10717.	312.	266.	257.	244.	240.		
YEARLY MORTALITY					12.92	.5	1	30.							
65	59	160.4	152.1		19.69	212.3	100.	12240.	299.	271.	261.	247.	244.		
69	63														
BEFORE					166.6	158.5	20.53	225.1	98.	13407.	287.	274.	263.	249.	246.
CUT							16.83	37.2	24.	2338.					
RESIDUAL					166.6	159.1	21.60	187.9	74.	11069.					
SUM CUTS							158.6	250.	7047.						
SUM MORTALITY							17.6	75.	798.						
YEARLY MORTALITY					17.14	.2	0.	13.							
70	64	168.1	160.7		21.84	191.8	74.	11384.	315.	275.	263.	250.	247.		
YEARLY MORTALITY					18.43	.3	0.	20.							
75	69	175.2	168.2		22.98	210.0	73.	12889.	293.	278.	266.	253.	250.		
YEARLY MORTALITY					19.67	.4	0.	29.							
80	74	131.9	175.2		24.02	226.4	72.	14307.	278.	280.	267.	254.	251.		
YEARLY MORTALITY					20.91	.6	0.	40.							
85	79	188.1	181.7		25.01	241.5	71.	15651.	263.	281.	267.	254.	251.		
8983															
BEFORE					192.9	186.6	25.78	252.6	70.	16670.	250.	282.	266.	254.	251.
CUT							21.92	29.7	11.	2080.					
RESIDUAL					192.9	186.9	26.47	222.9	58.	14590.					
SUM CUTS							188.4	261.	9127.						
SUM MORTALITY							26.7	79.	1383.						

D F S I M VERSION 1.0
 TABLE 7D. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

TOT BH		LOREY		BASAL	TREES	CVTS	CAI	*MAI CVTS*	**MAI CV4**
AGE AGE	HT40	HT		DBH AREA/A	PER	PER	NET	GROSS	****NET****
YRS YRS	FEET	FEET		INCH SQ FT	ACRE	ACRE	CVTS	1.6+ 1.6+	5.6+ 7.6+
YEARLY MORTALITY				22.67	.3	0.	23.		
90 84	194.0	188.2		26.70	226.2	58.	14870.	280.	282. 267. 254. 251.
YEARLY MORTALITY				23.59	.5	0.	32.		
95 89	199.5	194.0		27.78	242.0	57.	16195.	258.	283. 267. 254. 251.
YEARLY MORTALITY				24.47	.6	0.	41.		
100 94	204.7	199.6		28.81	256.4	57.	17433.	241.	283. 266. 253. 251.
100 94									
HARVEST	204.7	199.6		28.31	256.4	57.	17433.	241.	283. 266. 253. 251.
SUM CUTS					444.8	318.	26560.		
SUM MORTALITY					31.8	81	1734.		

D F S I M VERSION 1.0
TABLE 7D. — PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBICFEET PER ACRE	CUBICFEET PER ACRE 4-INCH TOP
TOTAL AGE 27.					
BEFORE	9.2	140.4	301.	3983.	3605.
CUT	818	40.3	95.	1111.	1010.
RESIDUAL	9.4	100.1	206.	2872.	2595.
SUM CUTS		40.3	95.	1111.	1010.
SUM MORTALITY				21.	
TOTAL AGE 36.					
BEFORE	11.7	163.6	220.	6209.	5829.
CUT	10.1	40.7	73.	1547.	1437.
RESIDUAL	12.4	123.0	147.	4662.	4392.
SUM CUTS		81.0	168.	2658.	2448.
SUM MORTALITY				61.	
TOTAL AGE 50.					
BEFORE	15.2	192.4	153.	9466.	9069.
CUT	12.4	39.2	46.	1988.	1883.
RESIDUAL	16.2	153.3	107.	7478.	7186.
SUM CUTS		120.1	215.	4646.	4331.
SUM MORTALITY				198.	
TOTAL AGE 69.					
BEFORE	20.5	225.1	98.	13407.	12871.
CUT	16.8	37.2	24.	2338.	2244.
RESIDUAL	21.6	187.9	74.	11069.	10627.
SUM CUTS		157.4	239.	6984.	6575.
SUM MORTALITY				604.	

D F S I M VERSION 1.0
 TABLE 7D. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBICFEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 89.					
BEFORE	25.8	252.6	70.	16670.	16004.
CUT	21.9	29.7	11	2080.	1997.
RESIDUAL	26.5	222.9	58.	14590.	14007.
SUM CUTS		187.1	250.	9064.	8572.
SUM MORTALITY				1170.	
TOTAL AGE 100.					
HARVEST	28.8	256.4	57.	17433.	16736.
SUM CUTS		443.6	307.	26497.	25308.
SUM MORTALITY				1521.	

TABLE 7D. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	BASAL		TREES	CVTS	CV4	CV6	IV6	SV6
	DBH	AREA						
	INCHES	SQ. FT.	PER ACRE					
TOTAL AGE 27.								
BEFORE	10.2	119.6	212.	3396.	3195.	2652.	14578.	11070.
CUT	9.9	33.5	63.	956.	881.	720.	3906.	2902.
RESIDUAL	10.3	86.1	149.	2440.	2314.	1932.	10672.	8168.
SUM CUTS		33.5	63.	956.	881.	720.	3906.	2902.
SUM MORTALITY				3.				
TOTAL AGE 36.								
BEFORE	12.2	156.9	193.	5979.	5683.	5238.	31787s	25698.
CUT	10.8	37.3	58.	1442.	1349s	1184.	6953.	5371.
RESIDUAL	12.8	119.6	135.	4538.	4334.	4054.	24834.	20327.
SUM CUTS		70.8	121.	2398.	2230.	1904.	10859.	8273.
SUM MORTALITY				15.				
TOTAL AGE 50.								
BEFORE	15.6	190.6	143.	9403.	8994.	8720.	57426.	49470.
CUT	12.8	38.2	43.	1946.	1867.	1743.	10933.	8888.
RESIDUAL	16.7	152.3	100.	7457.	7126.	6977.	46494.	40581.
SUM CUTS		109.0	164.	4344.	4098.	3647.	21791.	17161.
SUM MORTALITY				76.				
TOTAL AGE 69.								
BEFORE	20.5	225.1	98.	13407.	12871.	12742.	88532.	80065.
CUT	16.8	37.2	24.	2338.	2244.	2201.	14636.	12929.
RESIDUAL	21.6	187.9	74s	11069.	10627.	10541.	73896.	67137.
SUM CUTS		146.3	189.	6681.	6342.	5848.	36427.	30090.
SUM MORTALITY				289.				

D F S I M VERSION 1.0
 TABLE 7D. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 89.								
BEFORE	25.8	252.6	70.	16670.	16004.	15844.	111697.	106390.
CUT	21.9	29.7	11	2080.	1997.	1969.	13657.	13029.
RESIDUAL	26.5	222.9	58.	14590.	14007.	13374.	98040.	93361.
SUM CUTS		176.0	200.	8761.	8339.	7817.	50084.	43119.
SUM MORTALITY				855.				
TOTAL AGE 100.								
HARVEST	28.8	256.4	57.	17433.	16736.	16568.	116808.	114060.
SUM CUTS		432.5	257.	26195.	25074.	24386.	166891.	157179.
SUM MORTALITY				1207.				

DFSIM VERSION 1.0
TABLE 8A. -- PLANTED WITH REPEATED COMMERCIAL THINNING
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

STAND ORIGIN -- PLANTED TO 300. TREES PER ACRE.
FIRST COMMERCIAL THINNING IS ~~VED~~ AT AGE 50.
THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 4.
COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
50. 64. 79. 95.
THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
MUST BE AT LEAST 8.00 INCHES,
THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
AT LEAST 20. SQUARE FEET PER ACRE.
THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
THINNING CAN OCCUR.

TOT AGE YRS	BH AGE YRS	LOREY HTBO FEET	HT FEET	BASAL DBH INCH	AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	*MAI GROSS 1.6+	CVTS* NET 1.6+	***MAI ****NET**** 5.6+	CV4** 7.6+
20	11	26.3	22.3	3.36	18.5	300.	190.	48.		10.		
25	16	36.5	32.6	4.88	38.9	300.	552.	88.		22.		
YEARLY MORTALITY				3.93	.0	0.	1					
30	21	45.9	41.4	6.18	62.3	299.	1095.	123.	37.	37.	24.	8.
YEARLY MORTALITY				4.62	.0	0.	1					
35	26	54.4	49.2	7.31	86.8	298.	1791.	148.	51.	51.	42.	28.
YEARLY MORTALITY				5.30	.1	1	3.					
40	31	62.0	56.1	8.30	110.8	295.	2583.	163.	65.	65.	56.	47.
YEARLY MORTALITY				6.34	.3	1.	8.					
45	36	68.9	62.1	9.20	133.4	289.	3416.	168.	77.	76.	69.	62.
YEARLY MORTALITY				7.09	.6	2	17.					
50	41	75.2	67.5	10.05	153.9	279.	4250.	165.	87.	85.	78.	74.
50	41											
BEFORE		75.2	67.5	10.05	153.9	279.	4250.	165.	87.	85.	78.	74.
CUT				9.30	32.2	68.	874.					
RESIDUAL		75.2	68.1	10.28	121.7	211.	3376.					
SUM CUTS					32.2	68.	874.					
SUM MORTALITY					4.2	20.	108.					

D F S I M VERSION 1.0
TABLE 8A. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	LOREY HT FEET	BASAL DBH INCH	BASAL AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	*MAI GROSS 1.6+	CVTS* NET 1.6+	**MAI 5.6+	CV4** 7.6+
YEARLY MORTALITY				7.96	.2	0	5					
55	46	80.8	73.4	11.24	144.2	209.	4266.	175.	96.	93.	87.	84.
YEARLY MORTALITY				8.61	.3	1.	10.					
60	51	86.0	78.1	12.08	164.0	206.	5121.	169.	103.	100.	94.	91.
64	55											
BEFORE				89.8	81.5	12.71	178.4	202.	5781.	163.	107.	104.
CUT						10.77	33.1	52.	1107.			
RESIDUAL				89.8	81.8	13.32	145.3	150.	4674.			
SUM CUTS						65.3	121.	1981.				
SUM MORTALITY						7.7	29.	219.				
YEARLY MORTALITY				10.23	.1	0.	4.					
65	56	90.7	82.6	13.52	149.4	150.	4847.	173.	108.	105.	99.	98.
YEARLY MORTALITY				11.17	.2	0.	8.					
70	61	95.0	86.6	14.44	168.8	148.	5680.	163.	113.	109.	104.	102.
YEARLY MORTALITY				12.08	.4	0.	12.					
75	66	99.0	90.2	15.28	186.4	146.	6472.	155.	117.	113.	107.	106.
79	70											
BEFORE				101.9	92.9	15.92	199.5	144.	7077.	149.	119.	115.
CUT						12.98	28.9	31.	1085.			
RESIDUAL				101.9	93.1	16.64	170.6	113.	5992.			
SUM CUTS						94.2	152.	3066.				
SUM MORTALITY						12.0	35.	369.				
YEARLY MORTALITY				13.59	.2	0.	6.					
80	71	102.7	93.8	16.84	174.4	113.	6156.	164.	120.	115.	109.	108.
YEARLY MORTALITY				14.65	.3	0.	10.					
85	76	106.1	96.8	17.77	192.4	112.	6935.	152.	123.	118.	112.	111.
YEARLY MORTALITY				15.69	.4	0.	15.					
90	81	109.2	99.6	18.64	209.1	110.	7670.	144.	125.	119.	113.	112.
YEARLY MORTALITY				16.52	.5	0.	19.					
95	86	112.2	102.2	19.46	224.7	109.	8366.	137.	126.	120.	115.	114.
95	86											
BEFORE				112.2	102.2	19.46	224.7	109.	8366.	137.	126.	120.
CUT						15.88	28.3	21.	1134.			
RESIDUAL				112.2	102.3	20.21	196.4	88.	7232.			

D F S I M VERSION 1.0
 TABLE 8A. — PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES FLUS

SITE INDEX = 85. (50 YEARS BH)

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
SUM	CUTS				122.5	173.	4201.					
SUM	MORTALITY				17.4	39.	570.					
YEARLY MORTALITY				17.55	.3	0.	11.					
100	91	114.9	104.8	21.17	213.7	87.	7959.	141.	128.	122.	116.	115.
100	91											
HARVEST		114.9	104.8	21.17	213.7	87.	7959.	141.	128.	122.	116.	115.
SUM	CUTS				336.2	260.	12159.					
SUM	MORTALITY				18.7	40.	619.					

D F S I M VERSION 1.0
 TABLE 8A. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 50.					
BEFORE	10.3	153.1	266.	4243.	3925.
CUT	9.4	31.9	66.	861.	787.
RESIDUAL	10.5	121.2	200.	3383.	3137.
SUM CUTS		31.9	66.	861.	787.
SUM MORTALITY				68.	
TOTAL AGE 64.					
BEFORE	12.7	173.4	202.	5781.	5487.
CUT	10.8	33.1	52.	1107.	1029.
RESIDUAL	13.3	145.3	150.	4674.	4458.
SUM CUTS		65.1	118.	1967.	1817.
SUM MORTALITY				163.	
TOTAL AGE 79.					
BEFORE	15.9	199.5	144.	7077.	6792.
CUT	13.0	25.9	31.	1085.	1030.
RESIDUAL	16.6	170.6	113.	5992.	5762.
SUM CUTS		94.0	150.	3053.	2847.
SUM MORTALITY				314.	
TOTAL AGE 95.					
BEFORE	19.5	224.7	109.	8366.	8032.
CUT	15.9	28.3	21.	1134.	1088.
RESIDUAL	20.2	196.4	88.	7232.	6944.
SUM CUTS		122.3	170.	4187.	3935.
SUM MORTALITY				514.	
TOTAL AGE 100.					
HARVEST	21.2	213.7	87.	7559.	7640.
SUM CUTS		336.0	258.	12146.	11575.
SUM MORTALITY				587.	

D F S I H VERSION 1.0
TABLE 8A. — PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 50.								
BEFORE	10.9	144.2	224.	3926.	3717.	3227.	17583.	13459.
CUT	10.3	28.5	49.	778.	726.	614.	3353.	2496.
RESIDUAL	11.0	115.7	175.	3147.	2991.	2613.	14231.	10964.
SUM CUTS		28.5	49.	778.	726.	614.	3353.	2496.
SUM MORTALITY				32.				
TOTAL AGE 64.								
BEFORE	12.9	177.4	195.	5715.	5420.	5028.	29431.	23854.
CUT	11.5	31.8	44.	1060.	1001.	904.	5254.	4066.
RESIDUAL	13.3	145.6	151.	4655.	4418.	4124.	24178.	19788.
SUM CUTS		60.3	94.	1839.	1727.	1519.	8606.	6561.
SUM MORTALITY				91.				
TOTAL AGE 79.								
BEFORE	15.9	199.5	144.	7077.	6792.	6548.	40162.	34045.
CUT	13.0	28.9	31.	1085.	1030.	981.	5989.	4862.
RESIDUAL	16.6	170.6	113.	5992.	5762.	5567.	34172.	29183.
SUM WTS		39.2	125.	2924.	2758.	2500.	14596.	11423.
SUM MORTALITY				241.				
TOTAL AGE 95.								
BEFORE	19.5	224.7	109.	8366.	8032.	7937.	50282.	44084.
CUT	15.9	28.3	21.	1134.	1088.	1077.	6852.	5894.
RESIDUAL	20.2	196.4	88.	7232.	6944.	6860.	43429.	38190.
SUM CUTS		117.5	146.	4058.	3846.	3577.	21448.	17317.
SUM MORTALITY				442.				
TOTAL AGE 100.								
HARVEST	21.2	213.7	87.	7959.	7640.	7564.	48645.	43130.
SUM CUTS		331.2	233.	12017.	11486.	11141.	70093.	60447.
SUM MORTALITY				514.				

D F S I M VERSION 1.0
TABLE 8B. — PLANTED WITH REPEATED COMMERCIAL THINNING
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

STAND ORIGIN — PLANTED TO 300. TREES PER ACRE.
FIRST COMMERCIAL THINNING IS WANTED AT AGE 41.
THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 4.
COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
41. 55. 72. 89.
THE SCHEDULED AGE AT THE WEST CUT IS 100.
THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
MUST BE AT LEAST 8.00 INCHES.
THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
AT LEAST 20. SQUARE FEET PER ACRE.
THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
THINNING CAN OCCUR.

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI CVTS*	**MAI CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS
							1.6+ 1.6+ 5.6+ 7.6+
20 12	33.8	30.1	4.50	33.1	300.	438.	99.
YEARLY MORTALITY			4.26	.0	0.	1	22.
25 17	46.4	42.0	6.20	62.8	299.	1122.	158.
YEARLY MORTALITY			4.39	.1	0.	1	45. 45. 30. 11.
30 22	58.0	52.5	7.57	93.0	297.	2047.	201.
YEARLY MORTALITY			4.62	.2	2.	5	68. 68. 57. 42.
35 27	68.4	61.7	8.75	121.8	292.	3124.	222.
YEARLY MORTALITY			5.95	.5	3	16.	90. 89. 79. 70.
40 32	77.9	69.9	9.85	147.7	279.	4255.	227.
41 33							108. 106. 98. 92.
BEFORE	79.6	71.5	10.05	152.4	276.	4482.	227.
CUT			9.30	36.5	77.	1053.	112. 109. 101. 36.
RESIDUAL	79.6	72.2	10.33	115.9	199.	3429.	
SUM CUTS				36.5	77.	1053.	
SUM MORTALITY				3.5	24.	94.	
YEARLY MORTALITY			6.42	.1	1.	4	
45 37	86.4	78.6	11.30	137.1	197.	4377.	234.
YEARLY MORTALITY			7.26	.3	1	9.	123. 121. 112. 109.
50 42	94.1	85.8	12.33	160.2	193.	5535.	230.
YEARLY MORTALITY			8.08	.5	1	17.	135. 132. 124. 121.
55 47	101.1	92.4	13.29	180.7	188.	6663.	222.
55 47							144. 140. 132. 130.
BEFORE	101.1	92.4	13.29	180.7	188.	6663.	222.
CUT			11.14	37.5	55.	1423.	144. 140. 132. 130.
RESIDUAL	101.1	92.8	14.09	143.3	132.	5240.	

D F S I M VERSION 1.0

TABLE 88. — PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

TOT BH	LOREY		BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HTBO HT		DBH AREA/A	PER	PER	E T	GROSS	NET	****NET****	
YRS YRS	FEET FEET		INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
SUM CUTS			74.0	133	2476.					
SUM MORTALITY			6.7	35	209.					
YEARLY MORTALITY			11.30	.2	0.	7.				
60 52	107.5 99.0		15.19	165.1	131.	6365.	220.	151.	147.	140.
YEARLY MORTALITY			12.29	.3	0.	12				
65 57	113.3 104.5		16.15	184.6	130.	7439.	211.	157.	153.	145.
YEARLY MORTALITY			13.27	.5	0.	20.				
70 62	118.7 109.5		17.06	202.3	128	8469.	202	162.	156.	149.
72 64										
BEFORE	120.7 111.4		17.41	209.0	126.	8867.	198.	163	158.	150.
CUT			14.14	34.3	31	1539.				
RESIDUAL	120.7 111.7		18.36	174.7	95.	7328.				
SUM CUTS			108.3	164.	4015.					
SUM MORTALITY			11.6	41	412.					
YEMY MORTALITY			15.10	.2	0.	9.				
75 67	123.7 114.6		19.02	186.6	95.	7965.	209.	166	160.	152
YEARLY MORTALITY			16.25	.3	0.	14.				
80 72	128.2 118.9		20.03	204.8	94.	8971.	197.	169.	162.	155.
YEARLY MORTALITY			17.38	.4	0.	20.				
85 77	132.5 122.9		20.97	221.7	92.	9925.	187.	171	164.	156.
89 81										
BEFORE	135.7 125.9		21.70	234.3	91.	10652.	178.	172	165.	157.
CUT			17.92	29.8	17.	1454.				
RESIDUAL	135.7 126.0		22.48	204.5	74.	9198.				
SUM CUTS			138.1	181.	5469.					
SUM MORTALITY			17.5	45.	678.					
YEARLY MORTALITY			19.17	.2	0.	10.				
90 82	136.5 126.3		22.70	208.1	74.	9396.	198.	173	165.	157.
YEARLY MORTALITY			20.14	.3	0.	16.				
95 87	140.2 130.3		23.74	225.6	73.	10330.	182	174.	166.	159.
YEARLY MORTALITY			20.98	.5	0.	22				
100 92	143.6 133.6		24.73	243.8	72	11208.	172	175.	167.	159.
100 92										
HARVEST	143.6 133.6		24.73	241.8	72	11208.	172	175.	167.	159.
SUM CUTS			379.9	254.	16677.					
SUM MORTALITY			21.3	46.	855.					

D F S I M VERSION 1.0
TABLE 8B. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 41.					
BEFORE	10.4	151.0	255.	4462.	4135.
CUT	9.5	36.2	74.	1035.	949.
RESIDUAL	10.8	114.8	181.	3427.	3186.
SUM CUTS		36.2	74.	1035.	949.
SUM MORTALITY				44.	
TOTAL AGE 55.					
BEFORE	13.4	180.7	185.	6658.	6331.
CUT	11.3	37.4	54.	1417.	1330.
RESIDUAL	14.2	143.3	131.	5240.	5000.
SUM CUTS		73.6	128.	2452.	2279.
SUM MORTALITY				126.	
TOTAL AGE 72.					
BEFORE	17.4	209.0	126.	8867.	8513.
CUT	14.1	34.3	31.	1539.	1470.
RESIDUAL	18.4	174.7	95.	7328.	7043.
SUM CUTS		107.8	160.	3991.	3749.
SUM MORTALITY				322.	
TOTAL AGE 89.					
BEFORE	21.7	234.3	91.	10652.	10226.
CUT	17.9	29.8	17.	1454.	1396.
RESIDUAL	22.5	204.5	74.	9198.	8830.
SUM CUTS		137.6	177.	5445.	5145.
SUM MORTALITY				588.	
TOTAL AGE 100.					
HARVEST	24.7	241.8	72.	11208.	10760.
SUM CUTS		379.5	249.	16653.	15905.
SUM MORTALITY				765.	

D F S I ti VERSION 1.0
 TABLE 88. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

		BASAL AREA PER ACRE	TREES PER ACRE					
	DBH INCHES	sq. ft.		CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 41.								
BEFORE	11.0	142.4	215.	4146.	3940.	3445.	19240.	14900.
CUT	10.3	32.3	55.	937.	873.	742.	4116.	3091.
RESIDUAL	11.2	110.1	160.	3209.	3066.	2703.	15124.	11810.
SUM CUTS		32.3	55.	937.	873.	742.	4116.	3091.
SUM MORTALITY				15.				
TOTAL AGE 55.								
BEFORE	13.7	178.1	174.	6577.	6283.	5925.	36131.	29890.
CUT	11.8	36.1	48.	1372.	1296.	1187.	7089.	5570.
RESIDUAL	14.3	142.0	127.	5205.	4987.	4738.	29041.	24320.
SUM CUTS		68.3	103.	2309.	2169.	1929.	11206.	8661.
SUM MORTALITY				57.				
TOTAL AGE 72.								
BEFORE	17.4	209.0	126.	8867.	8513.	8311.	53644.	46715.
CUT	14.1	34.3	31.	1539.	1470.	1423.	9006.	7531.
RESIDUAL	18.4	174.7	95.	7328.	7043.	6888.	44638.	39184.
SUM CUTS		102.6	134.	3848.	3639.	3352.	20212.	16192.
SUM MORTALITY				188.				
TOTAL AGE 89.								
BEFORE	21.7	234.3	91.	10652.	10226.	10123.	67842.	61061.
CUT	17.9	29.8	17.	1454.	1396.	1382.	9189.	8231.
RESIDUAL	22.5	204.5	74.	9198.	8830.	8742.	58654.	52830.
SUM CUTS		132.4	151.	5302.	5034.	4734.	29401.	24424.
SUM MORTALITY				453.				
TOTAL AGE 100.								
HARVEST	24.7	241.8	72.	11208.	10760.	10652.	72937.	66708.
SUM CUTS		374.3	224.	16510.	15795.	15386.	102338.	91131.
SUM MORTALITY				630.				

D F S I H VERSION 1.0
 TABLE 8C. — PLANTED WITH REPEATED COMMERCIAL THINNING
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

STAND ORIGIN --- PLANTED TO 300. TREES PER ACRE.
 FIRST COMMERCIAL THINNING IS WTED AT AGE 35.
 THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 4.
 COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
 35. 47. 64. 83.
 THE SCHEDULED AGE AT THE WEST CUT IS 100.
 THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
 THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
 MUST BE AT LEAST 8.00 INCHES.
 THE BASAL AREA WT AT EACH COMMERCIAL THINNING MUST BE
 AT LEAST 20. SQUARE FEET PER ACRE.
 THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
 AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
 THINNING CAN OCCUR.

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HTBO	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	OWTS	1.6+	5.6+
15 8	26.6	22.3	3.42	19.1	300.	201.	71.	13.	
20 13	42.3	38.3	5.68	52.5	300.	067.	175.	43.	
YEARLY MORTALITY			4.41	.1	0.	1			
25 18	57.2	51.8	7.41	89.2	298.	1944.	242.	78.	64.
YEARLY MORTALITY			4.52	.2	2.	7.			
30 23	70.7	63.8	8.81	123.8	292.	3288.	281.	110.	98.
YEARLY MORTALITY			5.48	.7	4.	22.			
35 28	83.1	74.6	10.14	153.8	274.	4733.	291.	138.	125.
35 28									
BEFORE	83.1	74.6	10.14	153.8	274.	4733.	291.	133.	135.
CUT			9.34	37.2	78.	1117.			
RESIDUAL	83.1	75.5	10.44	116.6	196.	3616.			
SUM CUTS				37.2	78.	1117.			
SUM MORTALITY				3.4	26.	97.			
YEARLY MORTALITY			6.54	.2	1	6.			
40 33	94.2	86.2	11.31	146.7	193.	5135.	301.	159.	156.
YEARLY MORTALITY			7.43	.4	1.	14.			
45 38	104.3	95.8	12.95	171.9	188.	6626.	296.	176.	172.
47 40									
BEFORE	108.1	W.4	13.39	181.0	185.	7213.	292.	182.	177.
CUT			11.20	40.2	59.	1645.			
RESIDUAL	108.1	99.9	14.29	140.8	126.	5567.			
SUM CUTS				77.4	137.	2762.			
SUM MORTALITY				6.3	37.	207.			

D F S I M VERSION 1.0
TABLE 8C. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	HT FEET	BASAL DBH INCH	AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	*MAI GROSS 1.6+	CVTS* NET 1.6+	**MAI ****NET**** 5.6+	CV4** 7.6+
YEARLY MORTALITY				8.94	.1	0.	6.					
50	43	113.5	105.2	15.08	155.8	126.	6439.	287.	188.	184.	174.	172.
YEARLY MORTALITY				9.95	.2	01	11.					
55	48	121.9	113.4	16.24	178.0	124.	7844.	277.	198.	193.	183.	181.
YEARLY MORTALITY				10.94	.4	1.	19.					
60	53	129.5	120.9	17.31	197.8	121.	9202.	268.	205.	199.	190.	188.
64	57											
BEFORE				135.2	126.5	18.14	212.4	118.	10251.	258.	210.	203.
CUT						14.74	38.8	33.	1978.		194.	192.
RESIDUAL				135.2	127.0	19.28	173.5	86.	8272.			
SUM CUTS						116.3	170.	4740.				
SUM MORTALITY						11.2	45.	436.				
YEARLY MORTALITY				14.92	.1	0.	7.					
65	58	136.6	128.4	19.53	177.9	86.	8548.	276.	211.	204.	195.	193.
YEARLY MORTALITY				16.16	.2	0.	12.					
70	63	143.1	134.9	20.69	197.9	85.	9872.	259.	216.	209.	199.	197.
YEARLY MORTALITY				17.36	.4	0.	19.					
75	68	149.1	140.9	21.75	216.1	84.	11130.	247.	219.	212.	202.	200.
YEARLY MORTALITY				18.55	.5	0.	28.					
80	73	154.7	146.5	22.75	232.9	82.	12329.	235.	222.	213.	203.	202.
83	76											
BEFORE				157.8	149.6	23.34	242.4	820	13017.	227.	223.	214.
CUT						19.51	33.5	16.	1921.		204.	203.
RESIDUAL				157.8	149.8	24.19	208.8	65.	11096.			
SUM CUTS						149.8	186.	6661.				
SUM MORTALITY						18.0	49.	792.				
YEARLY MORTALITY				20.50	.3	0.	15.					
85	78	159.9	152.0	24.66	216.3	65.	11593.	245.	224.	215.	205.	203.
YEARLY MORTALITY				21.87	.4	0.	21.					
90	83	164.7	156.9	25.77	233.9	65.	12770.	229.	226.	216.	206.	205.
YEARLY MORTALITY				22.76	.5	0.	28.					
95	88	169.3	161.5	26.82	250.1	64.	13876.	216.	227.	216.	206.	205.
YEARLY MORTALITY				23.63	.7	0.	37.					
100	93	173.6	165.8	27.84	265.2	63.	14917.	203.	228.	216.	206.	205.
100	93											
HARVEST				173.6	165.8	27.84	265.2	63.	14917.	203.	228.	216.
SUM CUTS						415.0	249.	21578.			206.	205.
SUM MORTALITY						25.4	51.	1206.				

D F S I M VERSION 1.0
TABLE 8C. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

		BASAL AREA		TREES	TOTAL	CUBIC FEET
		DBH	PER ACRE	PER	CUBIC FEET	PER ACRE
		INCHES	SQ. FT.	ACRE	PER ACRE	4-INCH TOP
TOTAL AGE 35.						
BEFORE	10.6	152.1	249.	4705.	4369.	
CUT	9.5	36.8	75.	1097.	1008.	
RESIDUAL	11.0	115.3	174.	3609.	3362.	
SUM CUTS		36.3	75.	1097.	1008.	
SUM MORTALITY				40.		
TOTAL AGE 47.						
BEFORE	13.4	181.0	185.	7213.	6856.	
CUT	11.2	40.2	59.	1645.	1540.	
RESIDUAL	14.3	140.5	126.	5567.	5315.	
SUM CUTS		77.0	133.	2742.	2548.	
SUM MORTALITY				113.		
TOTAL AGE 64.						
BEFORE	18.1	212.4	1138	10251.	9841.	
CUT	14.7	38.8	33.	1975.	1893.	
RESIDUAL	19.3	173.5	86.	8272.	7948.	
SUM CUTS		115.9	166.	4721.	4441.	
SUM MORTALITY				342.		
TOTAL AGE 83.						
BEFORE	23.3	242.4	82.	13017.	12497.	
CUT	19.5	33.5	16.	1921.	1844.	
RESIDUAL	24.2	203.8	65.	11096.	10653.	
SUM CUTS		149.4	132.	6641.	6285.	
SUM MORTALITY				698.		
TOTAL AGE 100.						
HARVEST	27.8	265.2	63.	14917.	14320.	
SUM CUTS		414.6	245.	21558.	20605.	
SUM MORTALITY				1159.		

D F S I M VERSION 1.0
TABLE 8C. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 35.								
BEFORE	11.2	143.9	211.	4397.	4186.	3688.	20935.	16343.
CUT	10.4	32.9	56.	996.	929.	792.	4445.	3357.
RESIDUAL	11.4	111.0	156.	3401.	3257.	2896.	16490.	12985.
SUM CUTS		32.9	56.	996.	929.	792.	4445.	3357.
SUM MORTALITY				12.				
TOTAL AGE 47.								
BEFORE	13.9	178.1	170.	7116.	6791.	6442.	40083.	33417.
GUT	11.8	38.6	51.	1585.	1496.	1375.	8301.	6555.
RESIDUAL	14.7	139.5	119.	5531.	5296.	5067.	31783.	26862.
SUM CUTS		71.5	106.	2581.	2424.	2167.	12746.	9912.
SUM MORTALITY				47.				
TOTAL AGE 64.								
BEFORE	18.1	212.4	118.	10251.	9841.	9655.	64097.	56540.
CUT	14.7	38.8	33.	1978.	1893.	1838.	11841.	10046.
RESIDUAL	19.3	173.5	86.	8272.	7948.	7817.	52256.	46494.
SUM CUTS		110.3	139.	4560.	4317.	4006.	24587.	19958.
SUM MORTALITY				172.				
TOTAL AGE 83.								
BEFORE	23.3	242.4	82.	13017.	12497.	12372.	85927.	78555.
GUT	19.5	33.5	16.	1921.	1844.	1826.	12404.	11420.
RESIDUAL	24.2	208.8	65.	11096.	10653.	10546.	73522.	67135.
SUM CUTS		143.8	155.	6481.	6161.	5831.	36992.	31379.
SUM MORTALITY				528.				
TOTAL AGE 100.								
HARVEST	27.8	265.2	63.	14917.	14320.	14177.	99948.	94213.
SUM CUTS		409.0	218.	21397.	20482.	20008.	136940.	125592.
SUM MORTALITY				989.				

D F S I M VERSION 10
TABLE 8D. -- PLANTED WITH REPEATED COMMERCIAL THINNING
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

STAND ORIGIN — PLANTED TO 300. TREES PER ACRE.
FIRST COMMERCIAL THINNING IS WANTED AT AGE 30.
THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 5.
COMMERCIAL WINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
30. 40. 55. 73. 91.
THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
MUST BE AT LEAST 8.00 INCHES.
THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
AT LEAST 20. SQUARE FEET PER ACRE.
THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
THINNING CAN OCCUR.

TOT BH	LOREY	BASAL	TEES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	FER	NET	GROSS	NET
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+
15 9	33.8	30.2	4.49	33.0	300.	438.	135.		29.
YEARLY MORTALITY			4.39	.1	1.	1.			
20 14	51.9	47.2	6.84	76.2	299.	1519.	260.	76.	76.
YEARLY MORTALITY			4.42	.2	2.	5.			
25 19	68.8	62.3	8.58	118.1	294.	3071.	335.	123.	123.
YEARLY MORTALITY			5.24	.8	5.	25.			
30 24	84.3	75.9	10.15	154.3	274.	4837.	360.	164.	161.
30 24									
BEFORE	84.3	75.9	10.15	154.3	274.	4837.	360.	164.	161.
CUT			9.35	37.6	79.	1148.			
RESIDUAL	84.3	76.9	10.46	116.7	196.	3689.			
SUM CUTS				37.6	79.	1148.			
SUM MORTALITY				3.2	25.	94.			
YEARLY MORTALITY			6.49	.2	1.	8.			
35 29	98.4	90.4	12.04	151.9	192.	5582.	377.	196.	192.
YEARLY MORTALITY			7.44	.5	2	19.			
40 34	111.1	102.7	13.34	180.3	186.	7455.	372.	220.	215.
								203.	199.

D F S I M VERSION 1.0
TABLE 8D. — PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI CVTS*	**MAI CV4**
AGE AGE	HT40 HT	DBH AREA/A	PER	PER	NET	GROSS NET	****NET****
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+ 1.6+	5.6+ 7.6+
4034							
BEFORE	111.1	102.7	13.34	180.3	186.	7455.	372. 220. 215. 203. 199.
CUT			11.17	39.8	59.	1688.	
RESIDUAL	111.1	103.3	14.23	140.5	127,	5766.	
SUM CUTS			77.4	137.	2837.		
SUM MORTALITY			5.7	35.	189.		
YEARLY MORTALITY		9.05	.2	0.	9.		
45 39	122.8 114.9	15.66	167.9	125.	7570.	355. 236. 231. 220. 217.	
YEARLY MORTALITY		10.09	.3	1.	17.		
50 44	133.4 125.6	16.90	191.1	123,	9317.	346. 249. 243. 231. 229.	
YEARLY MORTALITY		11.13	.6	1,	30.		
55 49	143.1 135.4	18.05	211.6	119,	11008.	333. 259. 252. 240. 237.	
55 49							
BEFORE	143.1	135.4	18.05	211.6	119.	11008.	333. 259. 252. 240. 237.
CUT			14.67	39.5	34.	2156.	
RESIDUAL	143.1	136.0	19.22	172.1	85.	8851.	
SUM CUTS			116.9	171,	4993.		
SUM MORTALITY			10.1	43,	410.		
YEARLY MORTALITY		13.08	.2	0,	13.		
60 54	152.1 145.4	20.56	194.5	84,	10544.	331. 267. 259. 247. 245.	
YEARLY MORTALITY		14.89	.4	0,	21.		
65 59	160.4 154.0	23.76	214.1	83.	12152.	316. 272. 264. 251. 249.	
YEARLY MORTALITY		17.27	.5	0.	32.		
70 64	168.1 162.0	22.86	232.0	81.	13693.	302. 277. 267. 255. 253.	
73 67							
BEFORE	172.4	166.6	23.49	241.9	80.	14581.	293. 279. 268. 256. 254.
CUT			19.67	36.9	17,	2361.	
RESIDUAL	172.4	167.0	24.45	205.0	63.	12220.	
SUM CUTS			153.8	189.	7354.		
SUM MORTALITY			16.7	48.	792.		

D F S I M VERSION 1.0
TABLE 8D. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40 HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY		20.01	.3	0.	16.				
75 69	175.2 170.0	24.97	213.0	63.	12854.	313.	280.	269.	257.
YEARLY MORTALITY		21.41	.4	0.	23.				
80 74	181.9 177.2	26.16	231.4	62.	14356.	293.	283.	271.	259.
YEARLY MORTALITY		22.79	.5	0.	32.				
85 79	188.1 183.8	27.27	248.1	61.	15773.	277.	285.	272.	260.
YEARLY MORTALITY		24.06	.7	0.	43.				
90 84	194.0 190.1	28.33	263.5	60.	17112.	261.	286.	272.	260.
91 85									
BEFORE		195.1	191.3	28.54	266.5	60.	17370.	258.	286.
CUT				24.26	30.9	10.	2153.		
RESIDUAL		195.1	191.6	29.29	235.6	50.	15218.		
SUM CUTS				184.7	198.	9506.			
SUM MORTALITY				24.6	51.	1302.			
YEARLY MORTALITY		25.68	.4	0.	26.				
95 89	199.5 196.5	30.25	249.4	50.	16326.	270.	287.	272.	260.
YEARLY MORTALITY		26.65	.5	0.	35.				
100 94	204.7 202.3	31.40	265.3	49.	17625.	253.	287.	271.	259.
100 94									
W E S T		204.7	202.3	31.40	265.3	49.	17625.	253.	287.
SUM CUTS				450.0	247.	27131.			
SUM MORTALITY				28.3	52.	1552.			

D F S I M VERSION 1.0
TABLE 8D. — PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBICFEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 30.					
BEFORE	10.6	152.5	248.	4807.	4466.
CUT	9.5	37.2	75.	1127.	1036.
RESIDUAL	11.1	115.3	173.	3680.	3429.
SUM CUTS		37.2	75.	1127.	1036.
SUM MORTALITY				37.	
TOTAL AGE 40.					
BEFORE	13.3	180.3	186.	7455.	7083.
CUT	11.2	39.8	59.	1688.	1580.
RESIDUAL	14.2	140.5	127.	5766.	5503.
SUM CUTS		77.0	134.	2816.	2616.
SUM MORTALITY				97.	
TOTAL AGE 55.					
BEFORE	18.1	211.6	119.	11008.	10568.
CUT	14.7	39.5	34.	2156.	2063.
RESIDUAL	19.2	172.1	85.	8851.	8504.
SUM CUTS		116.5	167.	4972.	4680.
SUM MORTALITY				318.	
TOTAL AGE 73.					
BEFORE	23.5	241.9	80.	14581.	13998.
CUT	19.7	36.9	17.	2361.	2266.
RESIDUAL	24.5	205.0	63.	12220.	11731.
SUM CUTS		153.4	185.	7333.	6946.
SUM MORTALITY				677.	

D F S I M VERSION 1.0
 TABLE 8D. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 91.					
BEFORE	28.5	266.5	60.	17370.	16676.
CUT	24.3	30.9	10.	2153.	2067.
RESIDUAL	29.3	235.6	50.	15218.	14609.
SUM CUTS		184.3	194.	9485.	9012.
SUM MORTALITY				1186.	
TOTAL AGE 100.					
HARVEST	31.4	265.3	40.	17625.	16920.
SUM CUTS		449.6	244.	27110.	25932.
SUM MORTALITY				1436.	

D F S I M VERSION 1.0
TABLE 8D. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

		BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 30.								
BEFORE	11.2	144.3	211.	4498.	4282.	3781.	21578.	16884.
CUT	10.4	33.2	56.	1025.	955.	815.	4592.	3474.
RESIDUAL	11.5	111.1	154.	3473.	3327.	2966.	16986.	13411.
SUM CUTS		33.2	56.	1025.	955.	815.	4592.	3474.
SUM MORTALITY				11.				
TOTAL AGE 40.								
BEFORE	13.9	177.1	168.	7348.	7006.	6659.	41754.	34879.
CUT	11.8	38.1	50.	1623.	1531.	1406.	8520.	6734.
RESIDUAL	14.7	138.9	118.	5725.	5475.	5253.	33235.	28145.
SUM CUTS		71.4	106.	2648.	2486.	2222.	13111.	10208.
SUM MORTALITY				38.				
TOTAL AGE 55.								
BEFORE	18.1	211.6	119.	11008.	10568.	10367.	69665.	61622.
CUT	14.7	39.5	34.	2156.	2063.	1996.	12903.	10948.
RESIDUAL	19.2	172.1	85.	8851.	8504.	8371.	56761.	50674.
SUM CUTS		110.8	140.	4804.	4549.	4218.	26014.	21156.
SUM MORTALITY				148.				
TOTAL AGE 73.								
BEFORE	23.5	241.9	80.	14581.	13998.	13858.	97696.	89820.
CUT	19.7	36.9	17.	2361.	2266.	2243.	15279.	14118.
RESIDUAL	24.5	205.0	63.	12220.	11731.	11614.	82417.	75703.
SUM CUTS		147.7	157.	7165.	6815.	6461.	41294.	35273.
SUM MORTALITY				506.				

D F S I M VERSION 1.0
 TABLE 8D. -- PLANTED WITH REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH	BASAL AREA PER ACRE	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
	INCHES	SQ. FT.						
TOTAL AGE 91.								
BEFORE	28.5	266.5	60.	17370.	16676.	16509.	116388.	112534.
CUT	24.3	30.9	10.	2153.	2067.	2029.	14271.	14008.
RESIDUAL	29.3	235.6	50.	15218.	14609.	14480.	102117.	98526.
SUM CUTS		178.6	167.	9317.	8882.	8490.	55565.	49281.
SUM MORTALITY				1016.				
TOTAL AGE 100.								
HARVEST	31.4	265.3	49.	17625.	16920.	16751.	118093.	116411.
SUM CUTS		443.9	216.	26942.	25802.	25241.	173658.	165692.
SUM MORTALITY				1266.				

D F S I M V E R S I O N 1 . 0
 TABLE 9A. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

STAND ORIGIN — NATURAL.
 STAND WILL BE PRECOMMERCIALLY THINNED AT AGE 15. TO 400. TREES PER ACRE.
 FIRST COMMERCIAL THINNING IS WANTED AT AGE 41.
 THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 4.
 COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
 41. 53. 68. 83.
 THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
 THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
 THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS MUST BE AT LEAST 8.00 INCHES.
 THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE AT LEAST 20. SQUARE FEET PER ACRE.
 THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL THINNING CAN OCCUR.

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	LOREY HT FEET	BASAL DBH INCH	BASAL AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	*MAI GROSS 1.6+	CVTS* NET 1.6+	**MAI ****NET**** 5.6+	CV4** 7.6+
15	6	15.7	0.0	1.79	7.0	400.	43.	0.		3.		
<i>M</i>	11	26.3	22.6	3.43	25.7	400.	267.	65.		13.		
25	16	36.5	32.7	4.89	52.2	400.	742.	113.		30.		
YEARLY MORTALITY				3.90	.0	0.	1.					
30	21	45.9	41.4	6.13	81.2	396.	1431.	156.	48.	48.	33.	16.
YEARLY MORTALITY				4.39	.1	1.	2.					
35	24	54.4	49.1	7.16	109.9	393.	2271.	174.	65.	65.	52.	37.
YEARLY MORTALITY				5.20	.3	2.	6.					
40	31	62.0	55.8	8.04	136.2	386.	3173.	183.	80.	79.	68.	57.
41	32											
BEFORE		63.5	57.0	8.21	141.2	384.	3357.	183.	83.	82.	71.	60.
CUT				8.21	36.5	99.	871.					
RESIDUAL		63.5	57.0	8.21	104.6	285.	2486.					
SUM CUTS					36.5	99.	871.					
SUM MORTALITY					1.6	13.	36.					
YEARLY MORTALITY				5.29	.1	1.	4.					
45	36	68.9	62.1	9.03	125.3	282.	3218.	181.	92.	91.	80.	72.
YEARLY MORTALITY				5.80	.3	1.	80					
50	41	75.2	67.8	9.92	147.9	275.	4114.	178.	101.	100.	90.	84.
53	44											

D F S I M VERSION 1.0
TABLE 9A. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

TOT BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI CVTS*	**MAI CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	5.6+
BEFORE	78.6	71.0	10.43	160.2	270.	4642.	175.	106.	104.
CUT			9.49	34.4	70.	1012.			
RESIDUAL	78.6	71.1	10.74	125.8	200.	3630.			
SUM CUTS				70.9	169.	1883.			
SUM MORTALITY				4.2	28.	108.			
YEARLY MORTALITY			8.05	.1	0.	4.			
55 46	80.8	73.2	11.13	134.8	199.	3985.	176.	109.	107.
YEARLY MORTALITY			8.90	.2	1.	7.			
60 51	86.0	77.9	12.01	155.1	197.	4841.	168.	114.	112.
YEARLY MORTALITY			9.70	.4	1.	13.			
65 56	90.7	82.2	12.81	173.4	194.	5663.	162.	119.	116.
68 59									
BEFORE	93.3	84.6	13.27	183.6	191.	6139.	157.	122.	118.
CUT			11.13	33.0	49.	1143.			
RESIDUAL	93.3	84.9	13.93	150.5	142.	4996.			
SUM CUTS				104.0	218.	3026.			
SUM MORTALITY				8.3	36.	243.			
YEARLY MORTALITY			11.07	.2	0.	6.			
70 61	95.0	86.5	14.31	158.4	142.	5332.	167.	123.	119.
YEARLY MORTALITY			12.02	.3	0.	9.			
75 66	99.0	90.1	15.20	176.7	140.	6135.	157.	126.	122.
YEARLY MORTALITY			12.94	.4	0.	15.			
80 71	102.7	93.4	16.02	193.5	138.	6897.	149.	128.	124.
a3 74									
BEFORE	104.7	95.2	16.49	203.0	137.	7336.	144.	130.	125.
CUT			13.42	27.4	28.	1052.			
RESIDUAL	104.7	95.4	17.19	175.5	109.	6284.			
SUM CUTS				131.4	246.	4077.			
SUM MORTALITY				12.9	42.	405.			

D F S I M VERSION 1.0
 TABLE 9A. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY				14.48	.2	0.	8					
85	76	106.1	96.7	17.57	182.8	109.	6598.	155.	131.	126.	118.	116.
YEARLY MORTALITY				15.54	.3	0.	12.					
PO	81	109.2	99.5	18.47	200.0	107.	7344.	146.	132.	127.	120.	117.
YEARLY MORTALITY				16.39	.4	0.	17.					
95	86	112.2	102.1	19.32	215.9	106.	8049.	138.	133.	128.	121.	118.
YEARLY MORTALITY				17.08	.5	0.	20.					
100	91	114.9	104.4	20.13	231.0	104.	8718.	132.	134.	128.	121.	119.
100	91											
HARVEST		114.9	104.4	20.13	231.0	104.	8718.	132.	134.	128.	121.	119.
SUM CUTS					362.4	351.	12795.					
SUM MORTALITY					19.1	46.	641.					

TABLE 9A. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 41.					
BEFORE	9.1	133.0	292.	3212.	2898.
CUT	8.5	35.7	90.	832.	748.
RESIDUAL	9.4	97.3	202.	2380.	2150.
SUM CUTS		35.7	90.	832.	748.
SUM MORTALITY				14.	
TOTAL AGE 53.					
BEFORE	10.8	157.6	250.	4583.	4276.
CUT	9.7	34.2	67.	998.	916.
RESIDUAL	11.1	123.4	183.	3586.	3360.
SUM CUTS		40.9	156.	1830.	1664.
SUM MORTALITY				52.	
TOTAL AGE 68.					
BEFORE	13.3	183.5	190.	6129.	5832.
CUT	11.2	33.0	48.	1140.	1068.
RESIDUAL	13.9	150.5	142.	4989.	4764.
SUM CUTS		102.9	204.	2970.	2732.
SUM MORTALITY				166.	
TOTAL AGE 83.					
BEFORE	16.5	202.0	137.	7336.	7042.
CUT	13.4	27.4	28.	1052.	1001.
RESIDUAL	17.2	175.5	109.	6284.	6042.
SUM CUTS		130.3	232.	4021.	3733.
SUM MORTALITY				329.	
TOTAL AGE 100.					
HARVEST	20.1	231.0	104.	8718.	8369.
SUM CUTS		361.3	337.	12739.	12102.
SUM MORTALITY				564.	

D F S I M VERSION 1.0
TABLE 9A. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

		BASAL		TREES	CVTS	CV4	CV6	IV6	SV6
		DBH	AREA						
		INCHES	PER ACRE SQ. FT.	PER ACRE					
TOTAL AGE 41.									
BEFORE		10.2	108.5	192.	2595.	2474.	2054.	10439.	7591.
CUT		9.5	27.9	57.	679.	620.	488.	2490.	1785.
RESIDUAL		10.5	80.6	135.	1917.	1853.	1566.	7950.	5806.
SUM CUTS			27.9	57.	679.	620.	488.	2490.	1785.
SUM MORTALITY					4.				
TOTAL AGE 53.									
BEFORE		11.3	148.3	211.	4309.	4114.	3657.	20287.	15702.
CUT		10.5	39.9	52.	913.	853.	730.	4045.	3036.
RESIDUAL		11.6	117.4	160.	3396.	3261.	2927.	16242.	12667.
SUM CUTS			58.8	109.	1592.	1473.	1218.	6534.	4821.
SUM MORTALITY					19.				
TOTAL AGE 68.									
BEFORE		13.6	181.1	181.	6067.	5795.	5442.	32299.	26457.
CUT		11.8	32.0	42.	1105.	1046.	955.	5620.	4388.
RESIDUAL		14.1	149.1	138.	4962.	4749.	4486.	26679.	22069.
SUM CUTS			90.8	152.	2697.	2519.	2174.	12154.	9209.
SUM MORTALITY					85.				
TOTAL AGE 83.									
BEFORE		16.5	203.0	137.	7336.	7042.	6826.	42253.	36082.
CUT		13.4	27.4	28.	1052.	1001.	961.	5922.	4854.
RESIDUAL		17.2	175.5	109.	6284.	6042.	5864.	36331.	31228.
SUM CUTS			118.2	180.	3749.	3520.	3135.	18076.	14063.
SUM MORTALITY					200.				
TOTAL AGE 100.									
HARVEST		20.1	231.0	104.	8718.	8369.	8285.	52918.	46671.
SUM CUTS			349.2	284.	12466.	11889.	11421.	70994.	60734.
SUM MORTALITY					435.				

D F S III VERSION 1.0
TABLE 9B. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

STAND ORIGIN --- NATURAL.

STAND WILL BE PRECOMMERCIALLY THINNED AT AGE 13. TO 400. TREES PER ACRE.

FIRST COMMERCIAL THINNING IS WANTED AT AGE 33.

THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 5.

COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:

33. 44. 60. 77. 93.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.

THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS MUST BE AT LEAST 8.00 INCHES.

THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE AT LEAST 20. SQUARE FEET PER ACRE.

THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL THINNING CAN OCCUR.

TOT BH		LOREY		BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
15	7	20.7	16.0	2.56	14.3	400.	117.	46.		8.	
20	12	33.8	30.3	4.53	44.9	400.	595.	130.		30.	
YEARLY MORTALITY				3.85	.0	1.	1.				
25	17	46.4	42.1	6.18	82.7	397.	1480.	207.	59.	59.	41.
YEARLY MORTALITY				3.85	.1	2.	3.				20.
30	22	58.0	52.4	7.46	119.0	392.	2625.	241.	88.	88.	72.
33	25										55.
BEFORE											
		64.4	58.0	8.14	138.7	384.	3366.	250.	103.	102.	88.
CUT				8.14	38.5	106.	936.				75.
RESIDUAL				64.4	57.9	8.14	100.2	277.	2429.		
SUM CUTS					33.5	106.	936.				
SUM MORTALITY					1.3	15.	29.				
YEARLY MORTALITY				4.60	.1	1.	2.				
35	27	68.4	61.8	8.70	113.7	276.	2924.	246.	111.	110.	96.
YEARLY MORTALITY				5.41	.2	1.	7.				84.
40	32	77.9	70.5	9.85	142.9	270.	4154.	246.	129.	127.	115.
44	36										106.

D F S I M VERSION 1.0
TABLE 9B. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

TOT BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI CVTS*	**MAI CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	5.6+
BEFORE	84.7	76.8	10.66	163.0	263.	5131.	243.	140.	138.
CUT			9.61	41.6	83.	1327.			
RESIDUAL	84.7	77.1	11.11	121.4	180.	3804.			
SUM CUTS				80.1	189.	2263.			
SUM MORTALITY				3.6	29.	98.			
YEARLY MORTALITY			6.46	.1	0.	3			
45 37	86.4	78.6	11.37	126.7	180.	4041.	237.	142.	140.
YEARLY MORTALITY			7.35	.2	1	6			
50 42	94.1	85.9	12.48	150.7	177.	5198.	228.	152.	149.
YEARLY MORTALITY			8.19	.3	1	12.			
55 47	101.1	92.5	13.47	171.8	174.	6323.	223.	159.	156.
YEARLY MORTALITY			9.41	.5	1	21.			
60 52	107.5	98.5	14.41	190.8	169.	7412.	214.	165.	161.
60 52									
BEFORE	107.5	98.5	14.41	190.8	169.	7412.	214.	165.	161.
CUT			11.89	38.5	50.	1552.			
RESIDUAL	107.5	99.0	15.34	152.3	119.	5859.			
SUM CUTS				118.6	239.	3816.			
SUM MORTALITY				7.8	41.	254.			
YEARLY MORTALITY			12.50	.2	0.	8.			
65 57	113.3	104.6	16.43	173.2	118.	6960.	215.	170.	166.
YEARLY MORTALITY			13.53	.3	0	13.			
70 62	118.7	109.7	17.40	192.0	116.	8007.	206.	174.	169.
YEARLY MORTALITY			14.55	.5	0.	20.			
75 67	123.7	114.3	18.31	209.2	114.	9008.	196.	177.	171.
77 69									
BEFORE	125.5	116.0	18.66	215.8	114.	9394.	192.	178.	172.
CUT			15.19	32.1	26.	1487.			
RESIDUAL	125.5	116.3	19.55	183.6	88.	7907.			
SUM CUTS				150.7	265.	5303.			
SUM MORTALITY				12.9	46.	471.			

D F S I M VERSION 1.0
 TABLE 9B. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**		
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****			
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+		
YEARLY MORTALITY				16.39	.2	0.	10.							
80	72	128.2	119.0	20.21	195.2	88.	8528.	204.	179.	173.	164.	161.		
YEARLY MORTALITY				17.58	.3	0.	15.							
85	77	132.5	123.0	21.22	213.0	87.	9509.	191.	181.	174.	165.	162.		
YEARLY MORTALITY				18.74	.5	0.	22.							
90	82	136.5	126.7	22.17	229.5	86.	10435.	181.	182.	175.	166.	163.		
93	85													
BEFORE				138.7	128.8	22.73	238.9	85.	10965.	175.	183.	175.	166.	163.
CUT						18.91	27.6	14.	1363.					
RESIDUAL				138.7	128.9	23.42	211.2	71.	9602.					
SUM CUTS						178.3	279.	6666.						
SUM MORTALITY						18.6	49.	733.						
YEARLY MORTALITY				20.22	.3	0.	13.							
95	87	140.2	130.3	23.84	218.3	70.	9981.	186.	183.	175.	166.	164.		
YEARLY MORTALITY				21.10	.4	0.	18.							
100	92	143.6	133.6	24.88	235.2	70.	10878.	175.	184.	175.	166.	164.		
100	92													
HARVEST				143.6	133.6	24.88	235.2	70.	10878.	175.	184.	175.	166.	164.
SUM CUTS						413.5	348.	17544.						
SUM MORTALITY						20.8	50.	836.						

D F S I M VERSION 10
 TABLE 9B. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 33.					
BEFORE	9.1	130.2	287.	3212.	2897.
CUT	8.5	37.5	96.	891.	801.
RESIDUAL	9.4	92.7	191.	2321 .	2096.
SUM CUTS		37.5	96.	891 .	801 .
SUM MORTALITY				6.	
TOTAL AGE 44.					
BEFORE	11.0	169.5	241 .	5072.	4744.
CUT	9.8	41.2	78.	1308.	1206.
RESIDUAL	11.6	119.2	163.	3764.	3538.
SUM CUTS		78.8	174.	2199.	2007.
SUM MORTALITY				37.	
TOTAL AGE 60.					
BEFORE	14.4	190.2	169.	7412.	7080.
CUT	11.9	38.5	50.	1552.	1463.
RESIDUAL	15.3	152.3	119.	5859.	5617.
SUM CUTS		117.2	224.	3752.	3470.
SUM MORTALITY				152.	
TOTAL AGE 77.					
BEFORE	18.7	215.2	114.	9394.	9019.
CUT	15.2	32.1	26.	1487.	1425.
RESIDUAL	19.6	183.6	88.	7907.	7594.
SUM CUTS		149.4	249.	5239.	4895.
SUM MORTALITY				369.	

D F S I M VERSION 1.0
 TABLE 9B. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 93,					
BEFORE	22.7	238.9	85.	10965.	10526.
CUT	18.9	27.6	14.	1363.	1309.
RESIDUAL	23.4	211.2	71.	9602.	9218.
SUM CUTS		177.0	263.	6602.	6204.
SUM MORTALITY				631.	
TOTAL AGE 100.					
HARVEST	24.9	235.2	70.	10878.	10443.
SUM CUTS		412.2	333.	17480.	16646.
SUM MORTALITY				734.	

D F S I M VERSION 1.0
 TABLE 9B. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	GV4	CV6	IV6	SV6
TOTAL AGE 33.								
BEFORE	10.2	105.9	187.	2591.	2469.	2049.	10507.	7681.
CUT	9.4	29.0	60.	722.	659.	518.	2655.	1913.
RESIDUAL	10.5	76.9	128.	1869.	1811.	1532.	7852.	5768.
SUM CUTS		29.0	60.	722.	659.	518.	2655.	1913.
SUM MORTALITY				10				
TOTAL AGE 44.								
BEFORE	11.6	152.2	207.	4814.	4597.	4129.	23604.	18557.
CUT	10.6	37.5	61.	1205.	1127.	973.	5505.	4175.
RESIDUAL	12.0	114.7	146.	3609.	3470.	3155.	18100.	14382.
SUM CUTS		66.5	121.	1928.	1786.	1491.	8160.	6088.
SUM MORTALITY				11.				
TOTAL AGE 60.								
BEFORE	14.7	189.6	162.	7372.	7047.	6729.	41884.	35246.
CUT	12.4	37.6	45.	1519.	1456.	1345.	8183.	6535.
RESIDUAL	15.4	152.0	117.	5854.	5591.	5384.	33701.	28711.
SUM CUTS		109.2	166.	3446.	3242.	2836.	16343.	12622.
SUM MORTALITY				68.				
TOTAL AGE 77.								
BEFORE	18.7	215.8	114.	9394.	9019.	8873.	57916.	51003.
CUT	15.2	32.1	26.	1487.	1425.	1396.	8961.	7646.
RESIDUAL	19.6	183.6	88.	7907.	7594.	7477.	48955.	43357.
SUM CUTS		136.3	191.	4933.	4667.	4232.	25303.	20268.
SUM MORTALITY				212.				

D F S I M VERSION 1.0
 TABLE 9B. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 93.								
BEFORE	22.7	238.9	85.	10965.	10526.	10421.	70420.	63762.
CUT	18.9	27.6	14.	1363.	1309.	1295.	8709.	7926.
RESIDUAL	23.4	211.2	71.	9602.	9218.	9126.	61711.	55836.
SUM CUTS		163.9	206.	6296.	5975.	5527.	34012.	28194.
SUM MORTALITY				473.				
TOTAL AGE 100.								
HARVEST	24.9	235.2	70.	10878.	10443.	10338.	70846.	64827.
SUM CUTS		399.1	275.	17174.	16418.	15866.	104858.	93022.
SUM MORTALITY				577.				

D F S I M VERSION 10
TABLE 9C. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
16 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

STAND ORIGIN — NATURAL.

STAND WILL BE PRECOMMERCIAL THINNED AT AGE 11. TO 400. TREES PER ACRE.

FIRST COMMERCIAL THINNING IS WANTED (IT AGE 28.

THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 5.

COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:

28. 36. 49. 66. 84.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.

THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS MUST BE AT LEAST 8.00 INCHES.

THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE AT LEAST 20. SQUARE FEET PER ACRE.

THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL THINNING CAN OCCUR.

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
15	8	26.6	23.1	3.51	26.8	400.	284.	97.		19.		
20	13	42.3	38.4	5.67	69.8	398.	1149.	221.		57.		
YEARLY MORTALITY				3.72	.1	2	3					
25	18	57.2	51.9	7.37	116.4	393.	2545.	303.	102.	102.	83.	62.
28	21											
BEFORE		65.5	59.1	8.22	141.2	383.	3496.	323.	126.	125.	108.	93.
CUT				8.22	40.4	110.	999.					
RESIDUAL		65.5	59.1	8.22	100.9	274.	2496.					
SUM CUTS					40.4	110.	999.					
SUM MORTALITY					13	15.	29.					
YEARLY MORTALITY				4.59	.1	1.	3.					
30	23	70.7	64.1	8.90	117.6	272.	3137.	320.	139.	138.	121.	108.
YEARLY MORTALITY				5.48	.3	2	10.					
35	28	83.1	75.6	10.27	152.3	265.	4744.	323.	166.	164.	149.	140.
36	29											
BEFORE		85.4	77.7	10.51	158.4	263.	5066.	322.	171.	168.	154.	145.
CUT				9.53	39.0	79.	1262.					
RESIDUAL		85.4	77.9	10.90	119.5	184.	3804.					
SUM CUTS					79.3	188.	2262.					
SUM MORTALITY					2.8	26.	78.					

TABLE 9C. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)

MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40 HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY		6.66	.1	1.	5.				
40 33	94.2 86.4	12.02	143.7	182.	5023.	302.	184.	182.	168.
YEARLY MORTALITY		7.57	.3	1.	12.				
45 38	104.3 96.0	13.20	169.4	178.	6519.	297.	198.	195.	182.
49 42									176.
BEFORE		111.7 103.1	14.08	187.4	173.	7691.	290.	207.	203.
CUT			11.66	41.7	56.	1769.			191.
RESIDUAL		111.7 103.7	15.10	145.7	117.	5922.			185.
SUM CUTS			121.1	245.	4030.				
SUM MORTALITY			6.1	37.	205.				
YEARLY MORTALITY		9.11	.1	0.	4.				
50 43	113.5 105.5	15.37	150.7	117.	6216.	293.	209.	205.	193.
YEARLY MORTALITY		10.17	.2	0.	8.				187.
55 48	121.9 113.7	16.61	173.8	115.	7638.	280.	217.	212.	200.
YEARLY MORTALITY		11.20	.3	0.	15.				196.
60 53	129.5 121.2	17.73	194.3	113.	9008.	270.	222.	217.	205.
YEARLY MORTALITY		13.28	.5	1.	25.				201.
65 58	136.6 128.2	18.76	213.0	111.	10329.	260.	227.	221.	209.
66 59									205.
BEFORE		137.9 129.5	18.96	216.5	110.	10586.	257.	228.	221.
CUT			15.44	37.7	29.	1954.			210.
RESIDUAL		137.9 129.9	20.07	178.7	81.	8631.			206.
SUM CUTS			158.8	274.	5985.				
SUM MORTALITY			11.0	43.	433.				
YEARLY MORTALITY		16.43	.2	0.	11.				
70 63	143.1 135.2	21.05	195.3	81.	9707.	263.	231.	224.	212.
YEARLY MORTALITY		17.68	.3	0.	17.				209.
75 68	149.1 141.2	22.15	214.1	80.	10982.	250.	233.	226.	214.
YEARLY MORTALITY		18.90	.5	0.	25.				211.
80 73	154.7 146.7	23.19	231.4	79.	12197.	238.	235.	227.	216.
84 77									213.

D F S I M VERSION 1.0
 TABLE 9C. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 16 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

TOT BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
BEFORE	158.9	150.9	23.98	244.3	78.	13124.	228.	237.	227.	216.	213.
CUT			20.16	32.0	14.	1838.					
RESIDUAL	158.9	151.1	24.77	212.3	63.	11287.					
SUM CUTS				199.8	288.	7822.					
SUM MORTALITY				17.2	47.	764.					
YEARLY MORTALITY			20.80	.2	0.	13.					
85 78	159.9	152.2	25.01	216.0	63.	11537.	251.	237.	228.	216.	213.
YEARLY MORTALITY			22.19	.4	0.	20.					
90 83	164.7	157.2	26.15	233.9	63.	12725.	231.	238.	228.	217.	214.
YEARLY MORTALITY			23.11	.5	0.	27.					
95 88	169.3	161.8	27.23	250.5	62.	13842.	218.	238.	228.	217.	214.
YEARLY MORTALITY			23.99	.6	0.	36.					
100 93	173.6	166.1	28.26	265.9	61.	14894.	205.	239.	227.	216.	214.
100 93											
HARVEST	173.6	166.1	28.26	265.9	61.	14894.	205.	239.	227.	216.	214.
SUM CUTS				456.7	349.	22716.					
SUM MORTALITY				24.0	49.	1142.					

D F S I M VERSION 1.0
 TABLE 9C. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 28.					
BEFORE	9.2	132.9	289.	3341.	3020.
CUT	8.6	39.4	99.	954.	859.
RESIDUAL	9.5	93.5	190.	2388.	2161.
SUM CUTS		39.4	99.	954.	859.
SUM MORTALITY				6.	
TOTAL AGE 36.					
BEFORE	10.9	155.7	238.	5001.	4672.
CUT	9.8	38.6	74.	1243.	1145.
RESIDUAL	11.4	117.0	164.	3758.	3527.
SUM CUTS		78.0	173.	2196.	2004.
SUM MORTALITY				25.	
TOTAL AGE 49.					
BEFORE	14.1	187.4	173.	7691.	7337.
CUT	11.7	41.7	56.	1769.	1664.
RESIDUAL	15.1	145.7	117.	5922.	5673.
SUM CUTS		119.7	229.	3965.	3668.
SUM MORTALITY				109.	
TOTAL AGE 66.					
BEFORE	19.0	216.5	110.	10586.	10162.
CUT	15.4	37.7	29.	1954.	1873.
RESIDUAL	20.1	178.7	81.	8631.	8289.
SUM CUTS		157.5	258.	5919.	5541.
SUM MORTALITY				316.	

D F S I M VERSION 1.0
 TABLE 9C. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBICFEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 84.					
BEFORE	24.0	244.3	78.	13124.	12599.
CUT	20.2	32.0	14.	1838.	1764.
RESIDUAL	24.8	212.3	63.	11287.	10835.
SUM CUTS		189.5	273.	7757.	7305.
SUM MORTALITY				647.	
TOTCY AGE 100.					
HARVEST	28.3	265.9	61.	14894.	14298.
SUM CUTS		455.4	334.	22651.	21603.
SUM MORTALITY				1024.	

D F S I M VERSION 1.0
TABLE 9C. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 28.								
BEFORE	10.2	109.2	191.	2725.	2601.	2166.	11181.	8210.
CUT	9.5	30.9	63.	782.	715.	565.	2918.	2110.
RESIDUAL	10.6	78.3	129.	1943.	1886.	1601.	8263.	6100.
SUM CUTS		30.9	63.	782.	715.	565.	2918.	2110.
SUM MORTALITY				1				
TOTAL AGE 36.								
BEFORE	11.5	147.1	203.	4731.	4518.	4050.	23222.	18251.
CUT	10.5	34.9	58.	1140.	1065.	917.	5192.	3939.
RESIDUAL	11.9	112.2	145.	3590.	3453.	3133.	18031.	14313.
SUM CUTS		65.8	120.	1922.	1780.	1482.	8109.	6049.
SUM MORTALITY				6.				
TOTAL AGE 49.								
BEFORE	14.5	185.4	163.	7626.	7277.	6955.	43746.	36829.
CUT	12.2	40.5	50.	1720.	1650.	1513.	9231.	7357.
RESIDUAL	15.4	145.0	113.	5906.	5627.	5442.	34514.	29471.
SUM CUTS		106.3	170.	3642.	3430.	2996.	17341.	13406.
SUM MORTALITY				44.				
TOTAL AGE 66.								
BEFORE	19.0	216.5	110.	10586.	10162.	10014.	66835.	59337.
CUT	15.4	37.7	29.	1954.	1873.	1832.	11899.	10228.
RESIDUAL	20.1	178.7	81.	8631.	8289.	8182.	54936.	49109.
SUM WTS		144.1	199.	5596.	5303.	4828.	29240.	23634.
SUM MORTALITY				172.				

D F S I M VERSION 1.0

TABLE 9C. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 84.								
BEFORE	24.0	244.3	78.	13124.	12599.	12473.	86890.	79668.
CUT	20.2	32.0	14.	1838.	1764.	1746.	11925.	11083.
RESIDUAL	24.8	212.3	63.	11287.	10835.	10727.	74966.	68584.
SUM CUTS		176.1	214.	7434.	7067.	6574.	41165.	34717.
SUM MORTALITY				503.				
TOTAL AGE 100.								
HARVEST	28.3	265.9	61.	14894.	14298.	14155.	99793.	94246.
SUM CUTS		442.0	275.	22327.	21365.	20729.	140958.	128963.
SUM MORTALITY				880.				

D F S I M VERSION 1.0
 TABLE 9D. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

STAND ORIGIN — NATURAL.
 STAND WILL BE PRECOMMERCIAL THINNED AT AGE 10. TO 400. TREES
 PER ACRE.
 FIRST COMMERCIAL THINNING IS WANTED AT AGE 24.
 THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 6.
 COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
 24. 31. 42. 57. 74. 91.
 THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
 THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
 THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
 MUST BE AT LEAST 8.00 INCHES.
 THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
 AT LEAST 20. SQUARE FEET PER ACRE.
 THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
 AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
 THINNING CAN OCCUR.

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
15	9	33.8	30.3	4.52	44.7	400.	594.	178.		40.		
YEARLY MORTALITY				3.61	.1	1.	1.					
20	14	51.9	47.2	6.80	99.9	396.	1997.	344.	100.	100.	77.	49.
24	18											
BEFORE		65.5	59.4	8.22	141.6	385.	3525.	400.	148.	147.	127.	109.
CUT				8.22	40.8	111.	1019.					
RESIDUAL		65.5	59.3	8.22	100.8	274.	2506.					
SUM CUTS					40.8	111.	1019.					
SUM MORTALITY					1.1	13.	25.					
YEARLY MORTALITY				4.60	.1	1	2.					
25	19	68.8	62.5	8.64	111.3	273.	2902.	396.	158.	157.	137.	120.
YEARLY MORTALITY				5.37	.3	2.	11					
30	24	84.3	77.0	10.34	154.7	265.	4913.	407.	200.	198.	180.	169.
31	25											
BEFORE		87.2	79.8	10.64	162.1	263.	5322.	408.	207.	205.	187.	177.
CUT				9.59	41.7	83.	1386.					
RESIDUAL		87.2	80.0	11.09	120.4	180.	3935.					
SUM CUTS					82.5	194.	2405.					
SUM MORTALITY					2.7	24.	76.					

D F S I M VERSION 1.0
TABLE 9D. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40 HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY		6.68	.2	1	6.				
35 29	98.4 90.8	12.40	148.8	177.	5458.	379.	227.	225.	208. 201.
YEARLY MORTALITY		7.67	.4	1	15.				
40 34	111.1 103.1	13.74	177.9	173.	7342.	375.	247.	244.	228. 221.
42 36									
BEFORE	115.9 107.8	14.24	188.2	170.	8087.	371.	254.	250.	235. 227.
CUT		11.77	41.4	55.	1834.				
RESIDUAL	115.9 108.5	15.27	146.8	115.	6252.				
SUM CUTS			123.9	249.	4240.				
SUM MORTALITY			5.4	34.	187.				
YEARLY MORTALITY		9.34	.1	0.	7.				
45 39	122.8 115.3	16.17	163.5	115.	7346.	361.	262.	257.	243. 237.
YEARLY MORTALITY		10.43	.3	0.	13.				
50 44	133.4 126.0	17.48	187.8	113.	9116.	350.	272.	267.	252. 247.
YEARLY MORTALITY		11.51	.4	1	24.				
55 49	143.1 135.9	18.67	209.1	110.	10830.	338.	280.	274.	259. 255.
57 51									
BEFORE	146.8 139.7	19.14	217.0	109.	11497.	332.	283.	276.	261. 257.
CUT		15.60	38.0	29.	2126.				
RESIDUAL	146.8 140.2	20.26	179.0	80.	9371.				
SUM CUTS			161.9	277.	6366.				
SUM MORTALITY			9.8	41.	405.				
YEARLY MORTALITY		14.09	.2	0.	11.				
60 54	152.1 145.8	21.09	192.7	79.	10401.	339.	287.	279.	265. 261.
YEARLY MORTALITY		16.17	.3	0.	18.				
65 59	160.4 154.5	22.33	213.2	78.	12040.	322.	291.	283.	269. 265.
YEARLY MORTALITY		18.41	.5	0.	28.				
70 64	168.1 162.5	23.46	231.7	77.	13606.	307.	294.	285.	271. 267.
74 68									
BEFORE	173.8 163.5	24.32	245.3	76.	14804.	295.	296.	286.	272. 268.
CUT		20.50	35.6	16.	2282.				
RESIDUAL	173.8 168.9	25.20	209.7	61.	12522.				
SUM CUTS			197.5	293.	8648.				
SUM MORTALITY			15.9	44.	764.				

D F S I M VERSION 1.0
TABLE 9D. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40 HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY		20.40	.2	0.	14.				
75 69	175.2 170.4	25.46	213.8	60.	12843.	320.	297.	287.	272.
YEARLY MORTALITY		21.85	.3	0.	22.				
80 74	181.9 177.7	26.70	232.7	60.	14366.	297.	299.	288.	274.
YEARLY MORTALITY		23.26	.5	0.	31.				
85 79	188.1 184.4	27.84	249.8	59.	15801.	281.	299.	288.	274.
YEARLY MORTALITY		24.57	.6	0.	42.				
90 84	194.0 190.7	28.93	265.7	58.	17157.	265.	300.	287.	273.
91 85									
BEFORE		195.1 191.9	29.15	268.7	58.	17418.	261.	300.	286.
CUT			24.77	30.6	9.	2126.			
RESIDUAL		195.1 192.2	29.59	238.1	49.	15292.			
SUM CUTS			228.1	302.	10773.				
SUM MORTALITY			23.2	47.	1234.				
YEARLY MORTALITY		26.20	.4	0.	25.				
95 89	199.5 197.2	30.88	252.1	48.	16408.	272.	300.	286.	272.
YEARLY MORTALITY		27.20	.5	0.	34.				
100 94	204.7 203.0	32.05	268.3	48.	17717.	256.	300.	285.	271.
100 94									
HARVEST		204.7 203.0	32.05	268.3	48.	17717.	256.	300.	285.
SUM CUTS			496.4	350.	28490.				
SUM MORTALITY			26.9	48.	1477.				

D F S I M VERSION 1.0
 TABLE 9D. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 24.					
BEFORE	9.2	133.2	290.	3369.	3045.
CUT	8.5	39.8	100.	972.	875.
RESIDUAL	9.5	93.4	190.	2397.	2169.
SUM CUTS		39.8	100.	972.	875.
SUM MORTALITY				5.	
TOTAL AGE 31.					
BEFORE	11.1	159.5	239.	5258.	4918.
CUT	9.8	41.3	79.	1366.	1260.
RESIDUAL	11.6	113.1	161.	3892.	3658.
SUM CUTS		81.1	178.	2338.	2135.
SUM MORTALITY				25.	
TOTAL AGE 42.					
BEFORE	14.2	188.2	170.	8087.	7719.
CUT	11.8	41.4	55.	1834.	1727.
RESIDUAL	15.3	146.8	115.	6252.	5992.
SUM CUTS		122.5	233.	4172.	3863.
SUM MORTALITY				96.	
TOTAL AGE 57.					
BEFORE	19.1	217.0	109.	11497.	11037.
CUT	15.6	38.0	29.	2126.	2039.
RESIDUAL	20.3	179.0	80.	9371.	8998.
SUM CUTS		160.5	262.	6298.	5902.
SUM MORTALITY				287.	

D F S I M VERSION 10
 TABLE 9D. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBICFEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 74.					
BEFORE	24.3	245.3	76.	14804.	14212.
CUT	20.5	35.6	16.	2282.	2191.
RESIDUAL	25.2	209.7	61.	12522.	12022.
SUM CUTS		196.1	277.	8580.	8093.
SUM MORTALITY				645.	
TOTAL AGE 91.					
BEFORE	29.1	268.7	58.	17418.	16721.
CUT	24.8	30.6	9.	2126.	2041.
RESIDUAL	29.9	238.1	49.	15292.	14681.
SUM CUTS		226.7	286.	10706.	10133.
SUM MORTALITY				1115.	
TOTAL AGE 100.					
HARVEST	32.0	268.3	43.	17717.	17008.
SUM CUTS		495.0	334.	28423.	27142.
SUM MORTALITY				1358.	

D F S I M VERSION 1.0
TABLE 9D. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 24.								
BEFORE	10.2	109.5	192.	2747.	2621.	2183.	11273.	8279.
CUT	9.5	31.2	63.	797.	728.	576.	2974.	2151.
RESIDUAL	10.6	78.3	129.	1950.	1893.	1607.	8299.	6128.
SUM CUTS		31.2	63.	797.	728.	576.	2974.	2151.
SUM MORTALITY				1.				
TOTAL AGE 31.								
BEFORE	11.6	151.2	205.	4992.	4765.	4290.	24786.	19567.
CUT	10.6	37.5	61.	1257.	1175.	1016.	5780.	4397.
RESIDUAL	12.0	113.7	144.	3735.	3591.	3274.	19007.	15170.
SUM CUTS		68.7	125.	2054.	1903.	1591.	8754.	6548.
SUM MORTALITY				6.				
TOTAL AGE 42.								
BEFORE	14.6	186.2	159.	8020.	7648.	7338.	46628.	39437.
CUT	12.3	40.1	49.	1785.	1711.	1575.	9666.	7731.
RESIDUAL	15.6	146.0	110.	6235.	5936.	5762.	36962.	31706.
SUM CUTS		108.9	173.	3839.	3614.	3166.	18420.	14280.
SUM MORTALITY				37.				
TOTAL AGE 57.								
BEFORE	19.1	217.0	109.	11497.	11037.	10888.	73638.	65679.
CUT	15.6	38.0	29.	2128.	2039.	1991.	13010.	11228.
RESIDUAL	20.3	179.0	80.	9371.	8998.	8897.	60628.	54451.
SUM CUTS		146.9	202.	5965.	5653.	5157.	31429.	25508.
SUM MORTALITY				151.				

D F S I M VERSION 1.0
TABLE 9D. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 74.								
BEFORE	24.3	245.3	76.	14804.	14212.	14070.	99194.	91842.
CUT	20.5	35.6	16.	2282.	2191.	2169.	14863.	13898.
RESIDUAL	25.2	209.7	61.	12522.	12022.	11901.	84331.	77944.
SUM CUTS		132.5	213.	3247.	7844.	7326.	46293.	39406.
SUM MORTALITY				510.				
TOTAL AGE 91.								
BEFORE	29.1	268.7	58.	17418.	16721.	16554.	116707.	113121.
CUT	24.8	30.6	9.	2126.	2041.	2001.	14109.	13933.
RESIDUAL	29.9	238.1	49.	15292.	14681.	14553.	102598.	99188.
SUM CUTS		213.1	227.	10373.	9885.	9327.	60401.	53339.
SUM MORTALITY				980.				
TOTAL AGE 100.								
HARVEST	32.0	268.3	48.	17717.	17008.	16838.	118711.	117260.
SUM CUTS		481.4	275.	28090.	26893.	26166.	179112.	170599.
SUM MORTALITY				1223.				

This file was created by scanning the printed publication. Missions identified by the software have been corrected; however, some errors may remain.

D F S I M VERSION 1.0
TABLE 10A. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL MINING
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

STAND ORIGIN --- NATURAL.
STAND WILL BE PRECOMMERCIALLY THINNED AT AGE 15. TO 300. TREES
PER ACRE.
FIRST COMMERCIAL THINNING IS WANTED AT AGE 44.
THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 4.
COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
44. 57. 72. 87.
THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
THE AVERAGE DIETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
MUST BE AT LEAST 8.00 INCHES.
THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
AT LEAST 20. SQUARE FEET PER ACRE.
THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
THINNING CAN OCCUR.

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
15	6	15.7	0.0	1.87	5.7	300.	35.	0.		2.		
20	11	26.3	23.2	3.66	21.9	300.	231.	58.		12		
25	16	36.5	33.5	5.29	45.8	300.	658.	103.		26.		
YEARLY MORTALITY				4.32	.0	0.	1					
30	21	45.9	42.5	6.79	75.0	298.	1332.	151.	44.	44.	34.	20.
YEARLY MORTALITY				5.24	.0	0.	1.					
35	26	54.4	50.3	8.01	103.9	297.	2158.	172.	62.	62.	53.	43.
YEARLY MORTALITY				6.06	.1	1	3.					
40	31	62.0	57.0	9.02	130.7	295.	3053.	183.	77.	76.	68.	61.
44	35											
BEFORE		67.6	61.8	9.75	150.8	291.	37%	186.	87.	86.	79.	74.
CUT				9.16	34.7	76.	868.					
RESIDUAL		57.6	62.1	9.94	116.1	215.	2927.					
SUM CUTS					34.7	76.	868.					
SUM MORTALITY					16	9.	37.					
YEARLY MORTALITY				7.01	.1	0.	2					
45	36	61.9	63.4	10.18	121.6	215.	3119.	192.	89.	89.	81.	77.
YEARLY MORTALITY				7.93	.1	0.	4					
50	41	75.2	69.2	11.23	146.6	213.	4063.	187.	100.	99.	91.	89.
YEARLY MORTALITY				8.63	.3	1	9.					
55	46	80.8	74.3	12.13	168.8	210.	4985.	182.	108.	106.	100.	97.
57	48											
BEFORE		83.0	76.2	12.47	177.0	209.	5346.	180.	111.	109.	102.	100.
CUT				10.63	37.0	60.	1154.					
RESIDUAL		83.0	76.5	13.15	140.0	149.	4192.					
SUM CUTS					71.7	136.	2022.					
SUM MORTALITY					4.0	15.	108.					

This file was created by scanning the printed publication. Missions identified by the software have been corrected; however, some errors may remain.

TABLE 10A. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	LOREY HT FEET	BASAL DBH INCH	BASAL AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	*MAI GROSS 1.6+	CVTS* NET 1.6+	***MAI *****NET**** 5.6+	CV4** 7.6+
YEARLY MORTALITY				10.20	.1	0.	4.					
60	51	86.0	79.4	13.80	153.7	148.	4738.	180.	115.	113.	106.	105.
YEARLY MORTALITY				11.18	.2	0.	7.					
65	56	90.7	83.7	14.78	174.6	147.	5617.	173.	120.	118.	111.	110.
YEARLY MORTALITY				12.12	.3	0.	12.					
70	61	95.0	87.6	15.67	193.8	145.	6463.	166.	124.	121.	115.	114.
72	63											
BEFORE				96.6	89.1	16.01	201.1	144.	6791.	163.	125.	122.
CUT						13.05	33.5	36.	1203.		116.	115.
RESIDUAL				96.6	89.3	16.89	167.6	108.	5588.			
SUM CUTS						105.2	172.	3225.				
SUM MORTALITY						7.4	20.	221.				
YEARLY MORTALITY				13.85	.2	0.	5.					
75	66	99.0	91.5	17.54	180.0	107.	6104.	169.	128.	124.	118.	117.
YEARLY MORTALITY				14.97	.2	0.	9.					
80	71	102.7	94.8	18.54	199.5	106.	6925.	161.	130.	127.	120.	119.
YEARLY MORTALITY				16.06	.4	0.	13.					
85	76	106.1	97.9	19.48	217.7	105.	7709.	154.	132.	129.	122.	121.
87	78											
BEFORE				107.3	99.0	19.84	224.6	105.	8012.	151.	133.	129.
CUT						16.21	30.1	21.	1162.		123.	122.
RESIDUAL				107.3	99.1	20.65	194.5	84.	6850.			
SUM CUTS						135.3	193.	4388.				
SUM MORTALITY						11.3	23.	358.				
YEARLY MORTALITY				17.91	.2	0.	7.					
90	81	109.2	100.9	21.30	206.2	83.	7329.	157.	134.	130.	124.	123.
YEARLY MORTALITY				18.93	.3	0.	11.					
95	86	112.2	103.5	22.33	224.9	83.	8088.	149.	136.	131.	125.	124.
YEARLY MORTALITY				19.76	.4	0.	15.					
100	91	114.9	106.0	23.31	242.5	82.	8809.	141.	137.	132.	126.	125.
100	91											
HARVEST				114.9	106.0	23.31	242.5	82.	8809.	141.	137.	132.
SUM CUTS						377.8	275.	13197.				
SUM MORTALITY						14.9	25.	488.				

D F S I M VERSION 1.0
TABLE 10A. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBICFEET PER ACRE	CUBICFEET PER ACRE 4-INCH TUP
TOTAL AGE 44.					
BEFORE	10.3	147.5	255.	3733.	3461.
CUT	9.4	34.5	72.	855.	778.
RESIDUAL	10.6	113.0	183.	2878.	2684.
SUM CUTS		34.5	72.	855.	778.
SUM MORTALITY				21.	
TOTAL AGE 57.					
BEFORE	12.5	176.6	207.	5327.	5052.
CUT	10.8	37.0	59.	1150.	1070.
RESIDUAL	13.1	139.6	149.	4177.	3982.
SUM CUTS		71.6	131.	2005.	1848.
SUM MORTALITY				81.	
TOTAL AGE 72.					
BEFORE	16.0	201.1	144.	6791.	6518.
CUT	13.1	33.5	36.	1203.	1143.
RESIDUAL	16.9	167.6	108.	5588.	5375.
SUM CUTS		105.1	167.	3209.	2991.
SUM MORTALITY				193.	
TOTAL AGE 87a					
BEFORE	19.8	224.6	105.	8012.	7691.
CUT	16.2	30.1	21.	1162.	1116.
RESIDUAL	20.6	194.5	84.	6850.	6576.
SUM CUTS		135.2	188.	4371.	4106.
SUM MORTALITY				3421	
TOTAL AGE 100.					
HARVEST	23.3	242.5	82.	8809.	8457.
SUM CUTS		377.6	270.	13180.	12563.
SUM MORTALITY				472.	

D F S I M VERSION 1.0
 TABLE 10A. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 44.								
BEFORE	11.0	135.6	207.	3382.	3247.	2846.	14699.	10926.
CUT	10.1	30.5	55.	764.	712.	593.	3116.	2270.
RESIDUAL	11.3	105.1	152.	2618.	2535.	2253.	11583.	8656.
SUM CUTS		30.5	55.	764.	712.	593.	3116.	2270.
SUM MORTALITY				9.				
TOTAL AGE 57.								
BEFORE	12.8	173.2	194.	5236.	5000.	4627.	26216.	20923.
CUT	11.3	35.5	51.	1103.	1043.	933.	5312.	4068.
RESIDUAL	13.3	137.7	143.	4133.	3957.	3694.	20904.	16855.
SUM CUTS		66.0	106.	1868.	1754.	1526.	8428.	6338.
SUM MORTALITY				45.				
TOTAL AGE 72.								
BEFORE	16.0	201.1	144.	6791.	6518.	6290.	37885.	31938.
CUT	13.1	33.5	36.	1203.	1143.	1092.	6604.	5349.
RESIDUAL	16.9	167.6	108.	5588.	5375.	5198.	31281.	26589.
SUM CUTS		99.6	142.	3071.	2897.	2618.	15032.	11687.
SUM MORTALITY				127.				
TOTAL AGE 87.								
BEFORE	19.8	224.6	105.	8012.	7691.	7614.	47653.	41693.
CUT	16.2	30.1	21.	1162.	1116.	1104.	7019.	6060.
RESIDUAL	20.6	194.5	84.	6850.	6576.	6510.	40634.	35634.
SUM CUTS		129.7	163.	4233.	4013.	3722.	22051.	17747.
SUM MORTALITY				277.				
TOTAL AGE 100.								
HARVEST	23.3	242.5	82.	8809.	8457.	8372.	54161.	43494.
SUM CUTS		372.1	245.	13042.	12470.	12095.	76212.	66241.
SUM MORTALITY				407.				

DFSIM VERSION 1.0

TABLE 10B. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

STAND ORIGIN --- NATURAL.

STAND WILL BE PRECOMMERCIALY THINNED AT AGE 13. TO 300. TREES
PER ACRE.

FIRST COMMERCIAL THINNING IS VIEWED AT AGE 37.

THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 5.

COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:

37. 49. 65. 82. 97.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.

THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
MUST BE AT LEAST 8.00 INCHES.

THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
AT LEAST 20. SQUARE FEET PER ACRE.

THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
THINNING CAN OCCUR.

TOT BH		LOREY		BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
15	7	20.7	16.6	2.70	11.9	300.	99.	39.		7.	
20	12	33.8	31.1	4.89	39.1	300.	525.	117.		26.	
YEARLY MORTALITY				4.24	.0	0.	1.				
25	17	46.4	43.1	6.80	75.3	298.	1358.	197.	54.	54.	42.
YEARLY MORTALITY				4.48	.1	0.	1.				25.
30	22	58.0	53.6	8.30	111.4	296.	2468.	234.	83.	82.	72.
YEARLY MORTALITY				5.03	.2	2.	4.				61.
35	27	68.4	62.7	9.53	143.9	291.	3695.	252.	106.	106.	96.
37	29										89.
BEFORE	72.3	66.1	9.99	155.7	286.	4201.	253.	115.	114.	104.	99.
CUT			9.27	40.4	86.	1078.					
RESIDUAL	72.3	66.6	10.28	115.3	200.	3123.					
SUM CUTS				40.4	86.	1078.					
SUM MORTALITY				1.8	14.	45.					
YEARLY MORTALITY			6.10	.1	0.	3.					
40	32	77.9	71.9	11.12	134.2	199.	3889.	255.	125.	124.	115.
YEARLY MORTALITY				6.99	.2	1.	7.				111.
45	37	86.4	79.8	12.30	161.7	196.	5154.	252.	140.	138.	130.
49	41										127.

DFSIM VERSION 1.0
TABLE 10B. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

TOT BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
BEFORE	92.6	85.6	13.15	181.1	192.	6150.	247.	150.	148.	139.	137.
CUT			11.05	42.0	63.	1474.					
RESIDUAL	92.6	86.0	14.06	139.1	129.	4676.					
SUM CUTS				82.3	149.	2552.					
SUM MORTALITY				4.0	22.	116.					
YEARLY MORTALITY			10.16	.1	0.	2.					
50 42	94.1	87.5	14.34	144.4	129.	4921.	245.	152.	149.	141.	139.
YEARLY MORTALITY			11.29	.1	0.	5.					
55 47	101.1	94.1	15.55	168.8	128.	6116.	236.	160.	158.	149.	147.
YEARLY MORTALITY			12.35	.3	0.	10.					
60 52	107.5	100.2	16.61	190.6	127.	7274.	229.	167.	164.	155.	154.
YEARLY MORTALITY			13.38	.4	0.	18.					
65 57	113.3	105.6	17.60	210.4	125.	8393.	220.	172.	168.	160.	158.
65 57											
BEFORE	113.3	105.6	17.60	210.4	125.	8393.	220.	172.	168.	160.	158.
CUT			14.30	38.9	35.	1650.					
RESIDUAL	113.3	106.0	18.72	171.6	90.	6742.					
SUM CUTS				121.2	184.	4202.					
SUM MORTALITY				7.5	26.	253.					
YEARLY MORTALITY			15.49	.2	0.	7.					
70 62	118.7	111.2	19.95	193.5	89.	7869.	220.	176.	172.	164.	162.
YEARLY MORTALITY			16.71	.3	0.	12.					
75 67	123.7	115.9	21.05	213.5	88.	8941.	211.	180.	175.	167.	165.
YEARLY MORTALITY			17.91	.4	0.	18.					
80 72	128.2	120.3	22.08	232.1	87.	9967.	201.	182.	177.	169.	167.
82 74											
BEFORE	130.0	121.9	22.49	239.2	87.	10364.	198.	183.	178.	169.	168.
CUT			13.63	34.8	18.	1624.					
RESIDUAL	130.0	122.1	23.40	204.4	68.	8740.					
SUM WTS				156.0	202.	5826.					
SUM MORTALITY				12.2	29.	450.					

DFSIM VERSION 1.0

TABLE 10B. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY				19.97	.2	0.	9.					
85	77	132.5	124.6	24.14	216.7	68.	9370.	206.	184.	179.	170.	169.
YEARLY MORTALITY				21.36	.3	0.	14.					
90	82	136.5	128.5	25.29	236.0	68.	10366.	195.	186.	180.	171.	170.
YEARLY MORTALITY				22.38	.4	0.	19.					
95	87	140.2	132.0	26.38	254.0	67.	11310.	185.	187.	180.	172.	171.
97	89											
BEFORE				141.6	133.4	26.81	261.0	67.	11674.	181.	187.	180.
CUT						22.79	29.5	10.	1429.			
RESIDUAL				141.6	133.4	27.49	231.5	56.	10245.			
SUM CUTS						185.4	213.	7255.				
SUM MORTALITY						16.9	31.	662.				
YEARLY MORTALITY				23.91	.3	0.	12.					
100	92	143.6	135.6	23.22	242.9	56.	10819.	187.	188.	181.	172.	171.
100	92											
HARVEST				143.6	135.6	28.22	242.9	56.	10819.	187.	188.	181.
SUM CUTS						428.4	269.	18074.				
SUM MORTALITY						17.6	31.	694.				

D F S I M VERSION 1.0
TABLE 10B. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 37.					
BEFORE	10.6	152.6	251.	4137.	3851.
CUT	9.5	40.1	82.	1062.	370.
RESIDUAL	11.0	112.5	170.	3075.	2881.
SUM CUTS		40.1	82.	1062.	970.
SUM MORTALITY				19.	
TOTAL AGE 49.					
BEFORE	13.2	180.9	191.	6138.	5839.
CUT	11.2	41.9	61.	1469.	1376.
RESIDUAL	14.1	139.0	129.	4669.	4463.
SUM CUTS		82.0	143.	2531.	2345.
SUM MORTALITY				66.	
TOTAL AGE 65.					
BEFORE	17.6	210.4	125.	8393.	8057.
CUT	14.3	38.9	35.	1650.	1576.
RESIDUAL	18.7	171.6	90.	6742.	6480.
SUM CUTS		120.9	178.	4181.	3922.
SUM MORTALITY				203.	
TOTAL AGE 82.					
BEFORE	22.5	239.2	87.	10364.	9949.
CUT	18.7	34.8	18.	1624.	1559.
RESIDUAL	23.4	204.4	68.	8740.	8390.
SUM CUTS		155.7	196.	5805.	5431.
SUM MORTALITY				412.	

D F S I M VERSION 1.0
 TABLE 10B. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBICFEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 97.					
BEFORE	26.8	261.0	67.	11674.	11207.
CUT	22.8	29.5	10.	1429.	1372.
RESIDUAL	27.5	231.5	56.	10245.	9835.
SUM CUTS		185.2	207.	7234.	6853.
SUM MORTALITY				624.	
TOTAL AGE 100.					
W E S T	28.2	242.9	56.	10819.	10386.
SUM CUTS		428.1	263.	18053.	17239.
SUM MORTALITY				680.	

D F S I M VERSION 1.0
TABLE 10B. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 37.								
WORE	11.2	142.1	209.	3809.	3657.	3235.	17264.	13082.
CUT	10.2	35.8	63.	958.	893.	753.	4055.	2997.
RESIDUAL	11.5	106.3	146.	2851.	2764.	2482.	13209.	10085.
SUM CUTS		35.8	63.	958.	893.	753.	4055.	2997.
SUM MORTALITY				6.				
TOTAL AGE 49.								
BEFORE	13.5	178.5	181.	6071.	5801.	5438.	32182.	26304.
CUT	11.7	40.6	54.	1422.	1345.	1224.	7174.	5607.
RESIDUAL	14.2	137.9	126.	4648.	4455.	4212.	24988.	20697.
SUM CUTS		76.3	117.	2380.	2238.	1977.	11249.	8604.
SUM MORTALITY				29.				
TOTAL AGE 65.								
BEFORE	17.6	210.4	125.	8393.	8057.	7877.	49980.	43351.
CUT	14.3	38.9	35.	1650.	1576.	1533.	9641.	8063.
RESIDUAL	18.7	171.6	90.	6742.	6480.	6343.	40339.	35288.
SUM CUTS		115.2	152.	4030.	3815.	3512.	20890.	16667.
SUM MORTALITY				116.				
TOTAL AGE 82.								
BEFORE	22.5	239.2	87.	10364.	9949.	9850.	65541.	59033.
CUT	18.7	34.8	18.	1624.	1559.	1544.	10308.	9332.
RESIDUAL	23.4	204.4	68.	8740.	8390.	8306.	55233.	49701.
SUM CUTS		150.0	170.	5655.	5374.	5056.	31193.	26000.
SUM MORTALITY				325.				

D F S I M VERSION 1.0
 TABLE 10B. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 97.								
BEFORE	26.8	261.0	67.	11674.	11207.	11095.	76014.	69960.
CUT	22.8	29.5	10.	1429.	1372.	1358.	9326.	8956.
RESIDUAL	27.5	231.5	56.	10245.	9835.	9737.	66688.	61004.
SUM CUTS		179.4	181.	7084.	6746.	6414.	40524.	34955.
SUM MORTALITY				537.				
TOTAL AGE 100.								
HARVEST	28.2	242.9	56.	10819.	10386.	10282.	70915.	65590.
SUM CUTS		422.4	237.	17902.	17132.	16696.	111439.	100546.
SUM MORTALITY				592.				

DFS I M VERSION 10
 TABLE 10C. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 16 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

STAND ORIGIN --- NATURAL.
 STAND WILL BE PRECOMMERCIALLY THINNED AT AGE 11. TO 300. TREES
 PER ACRE.
 FIRST COMMERCIAL THINNING IS WANTED AT AGE 31.
 THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 6.
 COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
 31. 40. 53. 68. 83. 98.
 THE SCHEDULED AGE AT THE WEST CUT IS 100.
 THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
 THE AVERAGE DIMTER OF ALL CUT TREES AT COMMERCIAL THINNINGS
 MUST BE AT LEAST 8.00 INCHES.
 THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
 AT LEAST 20. SQUARE FEET PER ACRE.
 THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
 AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
 THINNING CAN OCCUR.

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+
								5.6+	7.6+
15 8	26.6	23.8	3.74	22.9	300.	246.	86.		16.
YEARLY MORTALITY			3.99	.1	1.	1.			
20 13	42.3	39.3	6.21	62.9	299.	1043.	216.	52.	52.
YEARLY MORTALITY			4.39	.1	1.	1.			
25 18	57.2	53.0	8.19	108.5	297.	2382.	294.	96.	95.
YEARLY MORTALITY			4.97	.3	2.	9.			
30 23	70.7	64.9	9.70	148.5	289.	3952.	325.	133.	132.
31 24									
BEFORE	73.3	67.2	9.99	155.7	286.	4279.	327.	139.	138.
CUT			9.27	40.4	86.	1095.			
RESIDUAL	73.3	67.8	10.28	115.3	200.	3184.			
SUM CUTS				40.4	86.	1095.			
SUM MORTALITY				1.7	14.	42.			
YEARLY MORTALITY			6.19	.1	1	4.			
35 28	83.1	77.0	11.59	145.4	198.	4513.	333.	162.	160.
YEARLY MORTALITY			7.15	.3	1.	10.			
40 33	94.2	87.5	12.92	176.7	194.	6176.	332.	184.	182.
40 33									
BEFORE	94.2	87.5	12.92	176.7	194.	6176.	332.	184.	182.
CUT			10.90	39.3	61.	1414.			
RESIDUAL	94.2	88.0	13.74	137.5	134.	4763.			
SUM CUTS				79.7	147.	2509.			
SUM MORTALITY				3.1	20.	89.			

DFSIM VERSION 1.0
TABLE 10C. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGBE-FIR
1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

TOT BH	LOREY		BASAL	TREES	CVIS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	E T	GROSS	NET	****NET****	
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+ 7.6+
YEARLY MORTALITY			8.71	.1	0.	5.				
45 38	104.3	97.8	15.22	167.0	132.	6348.	314.	199.	197.	186. 184.
YEARLY MORTALITY			9.76	.3	1.	12.				
50 43	113.5	106.7	16.48	192.4	130.	7895.	306.	211.	208.	198. 195.
53 46										
BEFORE	113.6	111.7	17.19	206.2	128.	8802.	300.	217.	213.	203. 201.
CUT			13.97	39.6	37.	1789.				
RESIDUAL	118.6	112.1	18.35	166.6	91.	7013.				
SUM CUTS				119.3	184.	4298.				
SUM MORTALITY				5.8	25.	200.				
YEARLY MORTALITY			13.81	.1	0.	5.				
55 48	121.9	115.4	18.93	176.9	91.	7621.	302.	221.	217.	206. 204.
YEARLY MORTALITY			15.11	.2	0.	10.				
60 53	129.5	123.0	20.23	200.5	90.	9089.	289.	227.	223.	212. 210.
YEARLY MORTALITY			16.35	.4	0.	17.				
65 58	136.6	130.0	21.40	221.7	89.	10500.	278.	233.	228.	217. 215.
68 61										
BEFORE	140.5	134.0	22.07	233.5	88.	11318.	270.	235.	230.	219. 217.
CUT			18.27	36.8	20.	1910.				
RESIDUAL	140.5	134.2	23.08	196.7	68.	9408.				
SUM CUTS				156.1	204.	6208.				
SUM MORTALITY				9.6	28.	381.				
YEARLY MORTALITY			18.44	.2	0.	9.				
70 63	143.1	136.9	23.64	205.8	68.	9975.	280.	237.	231.	220. 219.
YEARLY MORTALITY			19.87	.3	0.	14.				
75 68	149.1	143.1	24.92	226.9	67.	11327.	265.	240.	234.	223. 221.
YEARLY MORTALITY			21.27	.4	0.	21.				
80 73	154.7	148.8	26.11	246.3	66.	12613.	252.	242.	235.	224. 223.
83 76										
BEFORE	157.8	152.0	26.79	257.2	66.	13355.	245.	243.	236.	225. 223.
CUT			22.77	33.5	12.	1870.				
RESIDUAL	157.8	152.2	27.60	223.8	54.	11485.				
SUM CUTS				189.6	216.	8078.				
SUM MORTALITY				14.2	30.	616.				

TABLE 10C. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	***MAI	CV4**
AGE AGE	HTBO HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY		23.33	.2	0.	12.				
85 78	159.9 154.5	28.14	232.0	54.	12003.	255.	244.	236.	225.
YEARLY MORTALITY		24.95	.3	0.	17.				
90 33	164.7 159.6	29.42	251.5	53.	13232.	241.	245.	237.	226.
YEARLY MORTALITY		25.98	.4	0.	24.				
95 88	169.3 164.4	30.62	269.7	53.	14398.	228.	245.	237.	226.
98 91									
BEFORE	171.9 167.1	31.33	280.1	52.	15067.	221.	245.	236.	226.
CUT		26.63	29.3	8.	1718.				
RESIDUAL	171.9 167.3	32.06	250.8	45.	13349.				
SUM CUTS		218.9	224.	9796.					
SUM MORTALITY		19.5	32.	900.					
YEARLY MORTALITY		27.62	.3	0.	16.				
100 93	173.6 169.3	32.58	258.4	45.	13822.	231.	245.	236.	226.
100 93									
HARVEST	173.6 169.3	32.58	258.4	45.	13822.	231.	245.	236.	226.
SUM CUTS		477.3	268.	23618.					
SUM MORTALITY		20.0	32.	928.					

TABLE 10C. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

		BASAL AREA	TREES	TOTAL	CUBIC FEET
	DBH	PER ACRE	PER	CUBIC FEET	PER ACRE
	INCHES	SQ. FT.	ACRE	PER ACRE	4-INCH TOP
TOTAL AGE 31.					
BEFORE	10.6	152.6	250.	4213.	3922.
CUT	9.5	40.1	82.	1078.	985.
RESIDUAL	11.1	112.4	169.	3134.	2937.
SUM CUTS		40.1	82.	1078.	985.
SUM MORTALITY				16.	
TOTAL AGE 40.					
BEFORE	13.0	176.5	191.	6163.	5855.
CUT	11.0	39.2	59.	1408.	1318.
RESIDUAL	13.8	137.3	132.	4755.	4537.
SUM CUTS		79.3	141.	2486.	2303.
SUM MORTALITY				44.	
TOTAL AGE 53.					
BEFORE	17.2	206.2	128.	8802.	8450.
CUT	14.0	39.6	37.	1789.	1707.
RESIDUAL	18.3	166.6	91.	7013.	4743.
SUM CUTS		118.9	178.	4275.	4010.
SUM MORTALITY				137.	
TOTAL AGE 68.					
BEFORE	22.1	233.5	88.	11318.	0866.
CUT	18.3	36.8	20.	1910.	1833.
RESIDUAL	23.1	196.7	68.	9408.	9032.
SUM CUTS		155.7	198.	6185.	5843.
SUM MORTALITY				318.	

D F S I M VERSION 1.0
 TABLE 10C. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 83.					
BEFORE	26.8	257.2	66.	13355.	12821.
CUT	22.8	33.5	12.	1870.	1795.
RESIDUAL	27.6	223.8	54.	11485.	11025.
SUM CUTS		189.2	210.	8055.	7638.
SUM MORTALITY				585.	
TOTAL AGE 98.					
BEFORE	31.3	280.1	52.	15067.	14465.
CUT	26.6	29.3	8.	1718.	1649.
RESIDUAL	32.1	250.8	45.	13349.	12815.
SUM CUTS		218.5	217.	9773.	9287.
SUM MORTALITY				882.	
TOTAL AGE 100.					
HARVEST	32.6	258.4	45.	13822.	13269.
SUM CUTS		477.0	262.	23595.	22557.
SUM MORTALITY				910.	

D F S I M VERSION 1.0
 TABLE 10C. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

	DBH INCHES	BASAL AREA		PER ACRE	CVTS	CV4	CV6	IV6	SV6
		PER	TREES						
		SQ. FT.	PER						
TOTAL AGE 31.									
BEFORE	11.2	142.1	208.	3883.	3728.	3301.	17730.	13478.	
CUT	10.2	35.7	62.	973.	907.	765.	4143.	3069.	
RESIDUAL	11.6	106.3	146.	2910.	2821.	2535.	13587.	10409.	
SUM CUTS		35.7	62.	973.	907.	765.	4143.	3069.	
SUM MORTALITY				4					
TOTAL AGE 40.									
BEFORE	13.3	173.7	180.	6078.	5811.	5437.	32368.	26455.	
CUT	11.6	37.7	52.	1358.	1282.	1165.	6844.	5330.	
RESIDUAL	14.0	135.9	128.	4721.	4529.	4273.	25524.	21125.	
SUM CUTS		73.5	114.	2331.	2189.	1930.	10987.	8399.	
SUM MORTALITY				17.					
TOTAL AGE 53.									
BEFORE	17.2	206.2	128.	8802.	8450.	8238.	52909.	45939.	
CUT	14.0	39.6	37.	1789.	1707.	1649.	10395.	8658.	
RESIDUAL	18.3	166.6	91.	7013.	6743.	6589.	42515.	37281.	
SUM CUTS		113.1	151.	4119.	3896.	3578.	21381.	17057.	
SUM MORTALITY				70.					
TOTAL AGE 68.									
BEFORE	22.1	233.5	88.	11318.	10866.	10757.	72746.	65727.	
CUT	13.3	36.8	20.	1910.	1833.	1815.	12141.	10945.	
RESIDUAL	23.1	196.7	68.	9408.	9032.	8942.	60605.	54782.	
SUM CUTS		140.9	171.	6029.	5730.	5393.	33522.	28002.	
SUM MORTALITY				251.					

D F S I M VERSION 1.0
 TABLE 10C. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 83.								
BEFORE	26.3	257.2	66.	13355.	12321.	12692.	88835.	32232.
CUT	22.8	33.5	12.	1870.	1795.	1777.	12286.	11818.
RESIDUAL	27.6	223.8	54.	11485.	11025.	10915.	76549.	70414.
SUM CUTS		183.4	183.	7899.	7525.	7171.	45808.	39821.
SUM MORTALITY				518.				
TOTAL AGE 98.								
BEFORE	31.3	280.1	52.	15067.	14465.	14320.	100957.	96256.
CUT	26.6	29.3	8.	1718.	1649.	1614.	11379.	11265.
RESIDUAL	32.1	250.8	45.	13349.	12515.	12706.	89578.	84991.
SUM WTS		212.7	191.	9617.	9174.	8785.	57187.	51086.
SUM MORTALITY				816.				
TOTAL AGE 100.								
HARVEST	32.6	258.4	45.	13822.	13269.	13137.	92613.	88926.
SUM CUTS		471.1	235.	23439.	22443.	21921.	149800.	140012.
SUM MORTALITY				843.				

D F S I M VERSION 1.0
 TABLE 10D. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

STAND ORIGIN --- NATURAL.
 STAND WILL BE PRECOMMERCIAL THINNED AT AGE 10. TO 300. TREES
 PER ACRE.
 FIRST COMMERCIAL THINNING IS WANTED AT AGE 26.
 THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 7.
 COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
 26. 33. 43. 56. 70. 84. 97.
 THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
 THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
 THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
 MUST BE AT LEAST 8.00 INCHES.
 THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
 AT LEAST 20. SQUARE FEET PER ACRE.
 THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
 AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
 THINNING CAN OCCUR.

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	HT FEET	BASAL DBH INCH	AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	*MAI GROSS 1.6+	CVTS* E T 1.6+	**MAI CV4** *****NET****	7.6+
15	9	33.8	31.1	4.88	38.9	300.	524.	159.		35.		
YEARLY MORTALITY				4.40	.1	1.	1.					
20	14	51.9	43.3	7.53	92.1	298.	1852.	329.	93.	93.	77.	57.
YEARLY MORTALITY				4.76	.2	2	6.					
25	19	68.8	63.5	9.47	142.9	292.	3726.	398.	150.	149.	135.	126.
26	20											
BEFORE		72.0	66.3	9.82	152.0	289.	4132.	405.	160.	159.	145.	137.
CUT				9.19	38.0	82.	1024.					
RESIDUAL		72.0	64.8	10.06	114.0	207.	3108.					
SUM CUTS					38.0	82.	1024.					
SUM MORTALITY					1.3	11.	31.					
YEARLY MORTALITY				6.04	.1	1.	5.					
30	24	84.3	78.5	11.64	150.9	204.	4777.	421.	195.	193.	180.	175.
33	27											
BEFORE		92.9	86.7	12.59	174.1	201.	6049.	425.	216.	214.	201.	197.
CUT				10.70	39.0	62.	1390.					
RESIDUAL		92.9	87.1	13.36	135.1	139.	4659.					
SUM CUTS					77.0	145.	2414.					
SUM MORTALITY					2.4	16.	69.					

D F S I M VERSION 1.0

TABLE 10D. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET
YRS YRS	FEET	FEET	INCH	SG FT	ACRE	ACRE	CVTS	1.6+	1.6+
								5.6+	7.6+
~~YEARLY~~ MORTALITY			7.59	.1	0.	3.			
35	29	98.4	92.4	14.11	150.2	138.	5463.	402.	227.
YEARLY MORTALITY			8.75	.2	1	9.			
40	34	111.1	104.9	15.68	182.5	136.	7463.	398.	250.
43	37							247.	234.
								231.	
BEFORE	118.2	112.0	16.51	199.9	134.	8649.	393.	261.	257.
CUT			13.44	37.7	38.	1715.		244.	242.
RESIDUAL	118.2	112.5	17.59	162.2	96.	6934.			
SUM CUTS				114.7	183.	4129.			
SUR MORTALITY				4.2	21.	143.			
YEARLY MORTALITY			10.53	.1	0.	5.			
45	39	122.8	117.1	18.27	174.4	96.	7711.	387.	266.
YEARLY MORTALITY			11.79	.2	0	11.		263.	250.
50	44	133.4	127.9	19.77	201.4	94.	9605.	374.	275.
YEARLY MORTALITY			13.01	.4	0.	21.		261.	259.
55	45	143.1	138.0	21.12	225.1	93.	11435.	361.	288.
56	50							283.	269.
								267.	
BEFORE	145.0	139.9	21.38	229.6	92.	11792.	358.	290.	284.
CUT			17.62	37.0	22.	2025.		271.	269.
RESIDUAL	145.0	140.2	22.42	192.6	70.	9767.			
SUM CUTS				151.7	205.	6154.			
SUM MORTALITY				7.4	25.	301.			
YEARLY MORTALITY			17.72	.2	0.	11.			
60	54	152.1	147.8	23.62	212.5	70.	11218.	356.	295.
YEARLY MORTALITY			19.15	.3	0.	19.		290.	276.
65	59	160.4	156.6	24.96	234.7	69.	12948.	340.	300.
YEARLY MORTALITY			20.55	.5	0.	30.		294.	280.
70	64	168.1	164.9	26.19	254.7	68.	14599.	324.	304.
70	64							296.	283.
								281.	
BEFORE	168.1	164.9	26.19	254.7	68.	14599.	324.	304.	296.
CUT			22.27	34.5	13.	2112.		283.	281.
RESIDUAL	168.1	165.1	27.02	220.3	55.	12488.			
SUM CUTS				186.1	218.	8265.			
SUM MORTALITY				11.7	27.	545.			

D F S I W VERSION 1.0
 TABLE 10D. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 16 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+
								5.6+	7.6+
YEARLY MORTALITY			22.77	.3	0.	18.			
75	69	175.2	173.1	28.43	241.8	55.	14140.	322.	307.
YEARLY MORTALITY			24.32	.4	0.	26.			
80	74	181.9	180.5	29.73	261.4	54.	15700.	305.	309.
84	78							300.	286.
									285.
BEFORE	186.9	186.0	30.71	275.9	54.	16889.	293.	310.	299.
CUT			26.11	31.5	8.	2082.			
RESIDUAL	186.9	186.3	31.50	244.5	45.	14808.			
SUM CUTS				217.6	226.	10347.			
SUM MORTALITY				16.9	23.	859.			
YEARLY MORTALITY			26.53	.2	0.	15.			
85	79	188.1	187.8	31.78	243.5	45.	15122.	314.	310.
YEARLY MORTALITY			23.12	.4	0.	24.			
90	84	194.0	194.0	33.15	267.9	45.	16604.	290.	310.
YEARLY MORTALITY			29.21	.5	0.	32.			
95	89	199.5	199.5	34.43	285.9	44.	18006.	274.	310.
97	91							298.	285.
									284.
BEFORE	201.6	201.6	34.94	292.8	44.	18545.	268.	310.	298.
CUT			29.70	26.9	6.	1859.			
RESIDUAL	201.6	201.6	35.64	265.9	38.	16686.			
SUM CUTS				244.5	232.	12206.			
SUM MORTALITY				22.2	30.	1190.			
YEARLY MORTALITY			30.92	.4	0.	23.			
100	94	204.7	204.7	36.47	277.1	38.	17528.	274.	310.
100	94							297.	284.
									283.
HARVEST	204.7	204.7	36.47	277.1	38.	17528.	274.	310.	297.
									284.
									283.
SUM CUTS				521.6	270.	29734.			
SUM MORTALITY				23.1	30.	1251.			

D F S I M VERSION 1.0
TABLE 10D. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCHTOP
TOTAL AGE 26.					
BEFORE	10.4	148.6	250.	4062.	3774.
CUT	9.4	37.7	78.	1007.	918.
RESIDUAL	10.9	110.9	172.	3055.	2855.
SUM CUTS		37.7	78.	1007.	918.
SUM MORTALITY				11.	
TOTAL AGE 33.					
BEFORE	12.7	173.6	196.	6032.	5121.
CUT	10.9	38.9	61.	1383.	1292.
RESIDUAL	13.5	134.8	136.	4649.	4429.
SUM CUTS		76.6	139.	2390.	2210.
SUM MORTALITY				32.	
TOTAL AGE 43.					
BEFORE	16.5	199.9	134.	8649.	8303.
CUT	13.4	37.7	38.	1715.	1632.
RESIDUAL	17.6	162.2	96.	6934.	6670.
SUM CUTS		114.3	177.	4105.	3843.
SUM MORTALITY				90.	
TOTAL AGE 56.					
BEFORE	21.4	229.6	92.	11792.	11321.
CUT	17.6	37.0	22.	2025.	1944.
RESIDUAL	22.4	192.6	70.	9767.	9377.
SUM CUTS		151.3	199.	6130.	5787.
SUM MORTALITY				247.	

D F S I M VERSION 1.0
TABLE 10D. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 70.					
BEFORE	26.2	254.7	68.	14599.	14015.
CUT	22.3	34.5	13.	2112.	2027.
RESIDUAL	27.0	220.3	55.	12488.	11988.
SUM CUTS		185.8	211.	8241.	7814.
SUM MORTALITY				492.	
TOTAL AGE 84.					
BEFORE	30.7	275.9	54.	16389.	16214.
CUT	26.1	31.5	8.	2082.	1998.
RESIDUAL	31.5	244.5	45.	14808.	14215.
SUM CUTS		217.3	222.	10323.	9812.
SUM MORTALITY				805.	
TOTAL AGE 97.					
BEFORE	31.9	292.8	44.	18545.	17803.
CUT	29.7	26.9	6.	1859.	1785.
RESIDUAL	35.6	265.9	38.	16686.	16018.
SUM CUTS		244.1	226.	12182.	11597.
SUM MORTALITY				1137.	
TOTAL AGE 100.					
HARVEST	36.5	277.1	38.	17528.	16827.
SUM WTS		521.2	264.	29710.	28424.
SUM MORTALITY				1198.	

D F S I M VERSION 1.0
TABLE 10D. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

		BASAL AREA		TREES					
		DBH	PER ACRE	PER					
		INCHES	SQ. FT.	ACRE	GUTS	CV4	CV6	IV6	SV6
TOTAL AGE 26.									
BEFORE		11.1	137.4	205.	3714.	3565.	3142.	16750.	12665.
CUT		10.2	33.4	59.	904.	841.	706.	3797.	2803.
RESIDUAL		11.4	104.0	146.	2810.	2724.	2436.	12952.	9862.
SUM CUTS			33.4	59.	904.	841.	706.	3797.	2803.
SUM MORTALITY					3				
TOTAL AGE 33.									
BEFORE		13.1	170.4	183.	5928.	5669.	5279.	31259.	25417.
CUT		11.4	37.2	52.	1327.	1252.	1129.	6503.	5120.
RESIDUAL		13.6	133.2	131.	4601.	4417.	4150.	24656.	20297.
SUM CUTS			70.6	111.	2230.	2093.	1836.	10400.	7923.
SUM MORTALITY					11				
TOTAL AGE 43.									
BEFORE		16.5	199.9	134.	8649.	8303.	8054.	51647.	44610.
CUT		13.4	37.7	38.	1715.	1632.	1561.	9788.	8073.
RESIDUAL		17.6	162.2	96.	6934.	6670.	6493.	41859.	36538.
SUM CUTS			108.3	150.	3945.	3725.	3397.	20188.	15996.
SUM MORTALITY					42.				
TOTAL AGE 56.									
BEFORE		21.4	229.6	92.	11792.	11321.	11207.	76103.	68660.
CUT		17.6	37.0	22.	2025.	1944.	1924.	12795.	11425.
RESIDUAL		22.4	192.6	70.	9767.	9377.	9283.	63306.	57234.
SUM CUTS			145.3	172.	5970.	5669.	5321.	32985.	27422.
SUM MORTALITY					200.				

D F S I M VERSION 1.0
TABLE 10D. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 70.								
BEFORE	26.2	254.7	68.	14599.	14015.	13875.	97819.	90888.
CUT	22.3	34.5	13.	2112.	2027.	2007.	13878.	13278.
RESIDUAL	27.0	220.3	55.	12488.	11988.	11868.	83941.	77611.
SUM CUTS		179.7	184.	8082.	7696.	7328.	46863.	40699.
SUM MORTALITY				444.				
TOTAL AGE 84.								
BEFORE	30.7	275.9	54.	16889.	16214.	16052.	113164.	109465.
CUT	26.1	31.5	8.	2082.	1998.	1955.	13782.	13644.
RESIDUAL	31.5	244.5	45.	14808.	14215.	14097.	99382.	95822.
SUM CUTS		211.2	193.	10163.	9695.	9283.	60645.	54343.
SUM MORTALITY				758.				
TOTAL AGE 97.								
BEFORE	34.9	292.8	44.	18545.	17803.	17625.	124255.	123013.
CUT	29.7	26.9	6.	1859.	1785.	1722.	12141.	12020.
RESIDUAL	35.6	265.9	38.	16686.	16018.	15903.	112114.	110993.
SUM CUTS		238.1	198.	12022.	11479.	11005.	72786.	66363.
SUM MORTALITY				1089.				
TOTAL AGE 100.								
HARVEST	36.5	277.1	38.	17528.	16827.	16659.	117443.	116269.
SUM CUTS		515.2	237.	29550.	28306.	27664.	190230.	182632.
SUM MORTALITY				1150.				

B F S I I M VERSION 10
TABLE 11A. — PRECOMMERCIAL THINNING PLUS ONE FERTILIZATION
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

STAND ORIGIN — NATURAL.

STAND WILL BE PRECOMMERCIALY THINNED AT AGE 15. TO 300. TREES PER ACRE.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE STAND WILL BE FERTILIZED AS FOLLOWS:

STAND AGE POUNDS OF NITROGEN

28. 200.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.

NO COMMERCIAL THINNING TO BE DONE.

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40 HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
15 6	15.7 0.0	1.87 5.7	300.	35.	0.		2.		
20 11	26.3 23.2	3.66 21.9	300.	231.	58.		12.		
25 16	36.5 33.5	5.29 45.8	300.	658.	103.		26.		
YEARLY MORTALITY		4.40 .0	0.	1					
30 21	46.3 43.0	6.91 77.6	298.	1391.	198.	46.	46.	35.	21.
YEARLY MORTALITY		4.51 .1	1.	2.					
35 26	56.7 52.8	8.60 119.2	296.	2577.	240.	74.	74.	64.	55.
YEARLY MORTALITY		6.56 .2	1.	6.					
40 31	65.0 60.2	9.76 151.5	291.	3697.	213.	93.	92.	84.	73.
YEARLY MORTALITY		7.37 .5	2.	113					
45 36	72.0 66.2	10.70 177.4	284.	4724.	204.	107.	105.	97.	94.
YEARLY MORTALITY		8.15 .7	2.	19.					
50 41	78.2 71.5	11.55 200.5	275.	5732.	200.	118.	115.	107.	105.
YEARLY MORTALITY		8.93 .8	2.	25.					
55 46	83.9 78.3	12.35 221.5	266.	6710.	193.	127.	122.	115.	113.
YEARLY MORTALITY		9.61 1.0	2.	32.					
60 51	89.0 80.7	13.11 240.5	257.	7649.	184.	135.	127.	121.	119.
YEARLY MORTALITY		10.50 1.7	3.	58.					
65 56	93.7 84.6	13.87 256.1	244.	8478.	153.	141.	130.	124.	123.
YEARLY MORTALITY		11.34 2.1	3.	74.					
70 61	98.1 88.3	14.65 268.0	229.	9179.	134.	145.	131.	125.	124.
YEARLY MORTALITY		12.19 2.3	3.	82.					
75 66	102.0 91.7	15.41 277.8	214.	9804.	120.	149.	131.	125.	125.
YEARLY MORTALITY		13.06 2.3	3.	86.					
80 71	105.7 94.9	16.16 286.6	201.	10372.	109.	152.	130.	124.	124.

D F S I M VERSION 1.0
TABLE 11A. — PRECOMMERCIAL THINNING PLUS ONE FERTILIZATION (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	#MAI	CVTS*	**MAI	CV4**
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY				13.93	2.4	2	89.					
85	76	109.1	97.7	16.88	294.5	190.	10892.	101.	155.	128.	123.	123.
YEARLY MORTALITY				14.81	2.4	2	91.					
90	81	112.3	100.4	17.58	302.0	179.	11372.	93.	157.	126.	121.	121.
YEARLY MORTALITY				15.51	2.4	2	92.					
95	86	115.2	102.8	18.26	309.0	170.	11818.	86.	158.	124.	119.	119.
YEARLY MORTALITY				16.09	2.4	2	93.					
100	91	117.9	105.0	18.95	315.7	161.	12231.	80.	159.	122.	117.	117.
100	91											
HARVEST		117.9	105.0	18.95	315.7	161.	12231.	80.	159.	122.	117.	117.
SUM CUTS					315.7	161.	12231.					
SUM MORTALITY					101.5	139.	3643.					

DFS II VERSION 1.0
TABLE 11B. — PRECOMMERCIAL THINNING PLUS ONE FERTILIZATION
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

STAND ORIGIN — NATURAL.

STAND WILL BE PRECOMMERCIALY THINNED AT AGE 13. TO 300. TREES PER ACRE.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE STAND WILL BE FERTILIZED AS FOLLOWS:

STAND AGE POUNDS OF NITROGEN
23. 200.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	NET	GROSS	NET	****NET****
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	CVTS	1.6+	1.6+	5.6+ 7.6+
13 5	15.5	0.0	1.83	5.5	300.	34.	0.	3.	
15 7	20.7	16.6	2.70	11.9	300.	99.	39.	7.	
20 12	33.8	31.1	4.89	39.1	300.	525.	117.	26.	
YEARLY MORTALITY			4.36	.1	1.	1			
25 17	46.9	43.6	6.92	78.0	298.	1419.	245.	57.	57. 44. 26.
YEARLY MORTALITY			4.50	.1	1	2.			
30 22	60.1	55.9	8.84	125.6	295.	2880.	296.	96.	96. 85. 75.
YEARLY MORTALITY			5.89	.4	2	12.			
35 27	71.0	45.5	10.18	161.7	286.	4302.	276.	124.	123, 113. 108.
YEARLY MORTALITY			6.37	.7	3	21.			
40 32	80.5	73.7	11.32	191.0	273.	5672.	273.	145.	142. 133. 130.
YEARLY MORTALITY			7.70	1.0	3	32.			
45 37	89.0	83.1	12.38	216.4	259.	7016.	265.	162.	156. 147. 145.
YEARLY MORTALITY			8.46	1.2	3.	42.			
50 42	96.7	87.9	13.40	238.7	244.	8307.	253.	175.	166. 158. 156.
YEARLY MORTALITY			9.97	1.7	3.	63.			
55 47	103.7	94.3	14.36	257.3	229.	9529.	231.	186.	173. 166. 164.
YEARLY MORTALITY			11.36	2.2	3.	88.			
60 52	110.1	100.1	15.28	271.4	213.	10580.	198.	195.	176. 169. 168.
YEARLY MORTALITY			12.31	2.4	3	101.			
65 57	115.9	105.4	16.13	282.6	198.	11502.	176.	202.	177. 170. 170.
YEARLY MORTALITY			13.27	2.5	3	108.			
70 62	121.3	110.3	17.06	292.2	184.	12335.	161.	207.	176. 169. 169.
YEARLY MORTALITY			14.23	2.5	2	112.			
75 67	126.2	114.8	17.90	300.9	172.	13098.	148.	210.	175. 168. 168.

DFSIM VERSION 1.0
TARE 11B. — PRECOMMERCIAL THINNING PLUS ONE FERTILIZATION (CONTINUED)
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105, (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI CVTS*	**MAI CV4**
AGE AGE	HT40 HT	DBH AREA/A	PER	PER	NET	GROSS	****NET****
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+ 5.6+ 7.6+
YEARLY MORTALITY		15.20	2.5	2	114.		
80 72	130.8 118.9	18.72	308.8	162.	13802.	137.	213. 173. 166. 166.
YEARLY MORTALITY		16.17	2.5	2	116.		
85 77	135.1 122.7	19.51	316.3	152.	14456.	127.	215. 170. 163. 163.
YEARLY MORTALITY		17.15	2.5	2	117.		
90 82	139.1 126.1	20.27	323.3	144.	15064.	118.	216. 167. 161. 161.
YEARLY MORTALITY		17.85	2.4	1	118.		
95 87	142.8 129.3	21.01	330.0	137.	15630.	110.	217. 165. 158. 158.
YEARLY MORTALITY		18.48	2.4	1	119.		
100 92	146.2 132.3	21.76	336.4	130.	16157.	103.	217. 162. 155. 155.
100 92							
HARVEST	146.2 132.3	21.76	336.4	130.	16157.	103.	217. 162. 155. 155.
SUM M S			336.4	130.	16157.		
SUM MORTALITY			130.3	170.	5589.		

D F S I H VERSION 1.0
 TABLE 11C. -- PRECOMMERCIAL THINNING PLUS ONE FERTILIZATION
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

STAND ORIGIN -- NATURAL.

STAND WILL BE PRECOMMERCIALY THINNED AT AGE 11. TO 300. TREES
 PER ACRE.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE STAND WILL BE FERTILIZED AS FOLLOWS:

STAND AGE POUNDS OF NITROGEN

20. 200.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
 NO COMMERCIAL THINNING TO BE DONE.

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI CV4**	
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
11	4	14.4	0.0	1.67	4.6	300.	26.	0.		2.		
15	8	26.6	23.8	3.74	22.9	300.	246.	86.		16.		
YEARLY MORTALITY				3.99	.1	1.	1.					
20	13	42.3	39.3	6.21	62.9	299.	1043.	216.	52.	52.	35.	14.
YEARLY MORTALITY				4.39	.1	1.	3.					
25	18	58.6	54.6	8.55	118.0	296.	2654.	360.	107.	106.	93.	79.
YEARLY MORTALITY				5.24	.5	3.	15.					
30	23	72.8	67.1	10.24	162.7	285.	4445.	352.	150.	148.	136.	130.
YEARLY MORTALITY				6.30	.9	4.	28.					
35	28	85.1	78.0	11.68	197.2	265.	6201.	350.	182.	177.	166.	163.
YEARLY MORTALITY				7.32	1.2	4.	44.					
40	33	96.2	88.0	13.02	226.0	244.	7926.	340.	207.	198.	188.	186.
YEARLY MORTALITY				8.21	1.3	4.	52.					
45	38	106.3	97.5	14.28	250.1	225.	9623.	336.	227.	214.	204.	202.
YEARLY MORTALITY				10.50	2.1	4.	91.					
50	43	115.5	106.2	15.44	269.3	207.	11173.	290.	243.	230.	214.	213.
YEARLY MORTALITY				12.06	2.6	3.	116.					
55	48	123.9	114.1	16.52	283.3	190.	12510.	254.	255.	227.	218.	218.
YEARLY MORTALITY				13.12	2.7	3.	128.					
60	53	131.5	121.4	17.56	294.5	175.	13706.	230.	264.	228.	219.	219.
YEARLY MORTALITY				14.18	2.7	2.	134.					
65	58	138.6	128.1	18.56	304.3	162.	14799.	211.	270.	228.	219.	219.
YEARLY MORTALITY				15.25	2.7	2.	138.					
70	63	145.1	136.3	19.52	313.1	151.	15807.	196.	275.	226.	217.	217.

D F S I M VERSION 1.0
 TABLE 11C. -- PRECOMMERCIAL THINNING PLUS ONE FERTILIZATION (CONTINUED)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

TOT BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI CVTS*	**MAI CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+
								5.6+	7.6+
YEARLY MORTALITY			16.31	26	2	141.			
75 68	151.1	140.0	20.43	321.2	141.	16744.	182.	279.	223.
YEARLY MORTALITY			17.38	26	2	142.			
80 73	156.7	145.3	21.31	328.7	133.	17616.	170.	281.	220.
YEARLY MORTALITY			18.45	26	1	144.			
85 78	161.9	150.1	22.16	335.8	125.	18430.	158.	283.	217.
YEARLY MORTALITY			19.52	25	1	145.			
90 83	166.7	154.7	22.97	342.6	119.	19189.	148.	283.	213.
YEARLY MORTALITY			20.20	25	1	146.			
95 88	171.3	158.9	23.77	349.0	113.	19897.	138.	283.	209.
YEARLY MORTALITY			20.87	25	1	146.			
100 93	175.6	162.8	24.57	355.2	108.	20559.	129.	283.	206.
100 93									
HARVEST	175.6	162.8	24.57	355.2	108.	20559.	129.	283.	206.
SUM CUTS				355.2	108.	20559.			
SUM MORTALITY				155.8	192.	7762.			

D F S I M VERSION 1.0
TABLE 11D. — PRECOMMERCIAL THINNING PLUS ONE FERTILIZATION
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

STAND ORIGIN — NATURAL.

STAND WILL BE PRECOMMERCIALY THINNED AT AGE 10. TO 300. TREES PER ACRE.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE STAND WILL BE FERTILIZED AS FOLLOWS:

STAND AGE POUNDS OF NITROGEN

17. 200.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
NO COMMERCIAL THINNING TO BE DONE.

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40 HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
10 4	15.9 8.2	1.90 5.9	300.	37.	0.		4.		
15 9	33.8 31.1	4.88 38.9	300.	524.	159.		35.		
YEARLY MORTALITY		4.41 a1	1.	2.					
20 14	52.6 49.1	7.74 97.2	298.	1980.	394.	99.	99.	82.	62.
YEARLY MORTALITY		4.96 .4	3.	10.					
25 19	70.3 65.1	9.89 154.4	289.	4108.	432.	166.	164.	150.	141.
YEARLY MORTALITY		6.00 .9	5.	31.					
30 24	85.8 79.0	11.61 197.1	268.	6286.	438.	214.	210.	197.	193.
YEARLY MORTALITY		7.09 1.4	5.	51.					
35 29	99.8 91.7	13.21 231.1	243.	8455.	431.	252.	242.	230.	227.
YEARLY MORTALITY		8.37 18	5.	76.					
40 34	112.6 103.9	14.67 258.0	220.	10587.	412.	281.	265.	253.	251.
YEARLY MORTALITY		10.72 27	4.	125.					
45 39	124.3 115.3	16.05 277.0	197.	12459.	353.	304.	277.	266.	264.
YEARLY MORTALITY		12.23 2.9	4.	146.					
50 44	134.9 125.7	17.33 290.9	178.	14112.	318.	320.	282.	271.	271.
YEARLY MORTALITY		13.52 29	3.	155.					
55 49	144.6 135.4	18.52 302.4	162.	15621.	292.	332.	284.	273.	273.
YEARLY MORTALITY		14.74 2.9	2.	161.					
60 54	153.6 144.3	19.65 312.4	148.	17017.	271.	341.	284.	272.	272.
YEARLY MORTALITY		15.90 28	2.	164.					
65 59	161.9 152.6	20.71 321.3	137.	18316.	253.	347.	282.	271.	271.
YEARLY MORTALITY		17.05 2.8	2.	167.					
70 64	169.6 160.2	21.72 329.5	128.	19530.	236.	352.	279.	268.	268.

D F S I M VERSION 1.0
 TABLE 11D. -- PRECOMMERCIAL THINNING PLUS ONE FERTILIZATION (CONTINUED!)
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI CV4**		
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****		
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+	
YEARLY MORTALITY				18.19	27	1.	169.						
75	69	176.7	167.4	22.68	337.2	120.	20664.	221.	355.	276.	264.	264.	
YEARLY MORTALITY				19.33	2.6	1.	170.						
80	74	183.4	174.0	23.60	344.3	113.	21726.	207.	356.	272.	261.	261.	
YEARLY MORTALITY				20.45	2.6	1.	172.						
85	79	189.6	180.2	24.49	351.1	107.	22720.	194.	357.	267.	257.	257.	
YEARLY MORTALITY				21.54	2.6	1.	173.						
90	84	195.5	186.0	25.34	357.4	102.	23651.	181.	357.	263.	252.	252.	
YEARLY MORTALITY				22.25	2.5	1.	174.						
95	89	201.0	191.4	26.18	363.6	97.	24522.	170.	357.	258.	248.	248.	
YEARLY MORTALITY				22.96	2.5	1.	174.						
100	94	206.2	196.5	27.02	369.5	93.	25337.	159.	356.	253.	243.	243.	
100 94													
HARVEST				206.2	196.5	27.02	369.5	93.	25337.	159.	356.	253.	243.
SUM CUTS						369.5	93.	25337.					
SUM MORTALITY						180.7	207.	10242.					

D F S I M VERSION 1.0
 TABLE 12A. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

STAND ORIGIN --- NATURAL.
 STAND WILL BE PRECOMMERCIALLY THINNED AT AGE 15. TO 300. TREES
 PER ACRE.
 FIRST COMMERCIAL THINNING IS WANTED AT AGE 40.
 THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 5.
 COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:
 40. 50. 63. 77. 90.
 THE SCHEDULED AGE AT THE HARVEST CUT IS 100.
 THE STAND WILL BE FERTILIZED AS FOLLOWS:

STAND AGE	POUNDS OF NITROGEN
28.	200.
43.	200.
58.	200.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
 THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
 MUST BE AT LEAST 8.00 INCHES.
 THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
 AT LEAST 20. SQUARE FEET PER ACRE.
 THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
 AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
 THINNING CAN OCCUR.

TOT BH		LOREY		BASAL	TEES	CVTS	CAI	*MAI CVTS*	***MAI CV4**
AGE AGE	HT40	HT		DBH AREA/A	PER	PER	NET	GROSS NET	*****NET****
YRS YRS	FEET	FEET		INCH SQ FT	ACRE	ACRE	CVTS	1.6+ 1.6+	5.6+ 7.6+
15 6	15.7	0.0		1.87 5.7	300.	35.	0.		
20 11	26.3	23.2		3.66 21.9	300.	231.	58.		12.
25 16	36.5	33.5		5.29 45.5	300.	658.	103.		26.
YEARLY MORTALITY				4.40 .0	0.	1.			
30 21	46.3	43.0		6.91 77.6	298.	1391.	198.	45.	\$6. 36. 22.
YEARLY MORTALITY				4.51 .1	1.	2.			
35 26	56.7	52.3		8.60 119.2	296.	2577.	240.	74.	74. 65. 56.
YEARLY MORTALITY				6.56 .2	1.	6.			
40 31	65.0	60.2		9.76 151.5	291.	3697.	213.	93.	92. 84. 79.
40 31									
BEFORE	65.0	60.2		9.76 151.5	291.	3697.	213.	93.	92. 84. 79.
CUT				9.16 37.9	83.	927.			
RESIDUAL	65.0	60.4		9.99 113.6	209.	2770.			
SUM CUTS				37.9	83.	927.			
SUM MORTALITY				1.2	9.	27.			

DFSIM VERSION 1.0

TABLE 12A. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(CONTINUED) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
16 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	***MAI	CV4**
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY				7.55	.1	0	4					
45	36	72.3	67.3	11.31	144.6	207.	3876.	261.	108.	107.	99.	96.
YEMY MORTALITY				7.55	.4	1	11					
50	41	79.9	74.5	12.73	179.5	203.	5254.	261.	125.	124.	116.	114.
50	41											
BEFORE		79.9	74.5	12.73	179.5	203.	5254.	261.	125.	124.	116.	114.
CUT				10.78	42.5	67.	1290.					
RESIDUAL		79.9	74.8	13.58	137.0	136.	3964.					
SUM CUTS					80.4	150.	2216.					
SUM MORTALITY					29	14.	76.					
YEARLY MORTALITY				10.82	.1	0	4					
55	46	86.1	80.7	14.99	165.9	135.	5097.	210.	135.	133.	126.	124.
YEARLY MORTALITY				11.95	.3	0	9					
60	51	91.5	85.7	16.16	191.0	134.	6159.	248.	142.	140.	132.	131.
63	54											
BEFORE		95.1	89.1	16.99	209.1	133.	6945.	259.	148.	145.	138.	137.
CUT				13.81	41.7	40.	1487.					
RESIDUAL		95.1	89.4	18.19	167.3	93.	5458.					
SUM CUTS					122.1	190.	3704.					
SUM MORTALITY					5.4	17.	155.					
YEARLY MORTALITY				14.25	.1	0	3					
65	56	97.3	91.6	18.87	179.9	93.	5960.	245.	151.	149.	141.	140.
YEARLY MORTALITY				15.65	.2	0	6					
70	61	101.9	96.0	20.26	205.9	92.	7034.	199.	156.	153.	146.	144.
YEARLY MORTALITY				16.90	.3	0	9					
75	66	105.9	99.7	21.39	227.7	91.	7972.	183.	159.	156.	148.	147.
77	68											
BEFORE		107.4	101.1	21.82	236.0	91.	8334.	180.	160.	156.	149.	147.
CUT				18.04	37.4	21.	1441.					
RESIDUAL		107.4	101.2	22.84	198.6	70.	6893.					
SUM CUTS					159.6	211.	5144.					
SUM MORTALITY					8.0	19.	246.					

D F S I M V E R S I O N 1 . 0
TABLE 12A. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(Continued) M A N A G E D Y I E L D T A B L E
FOR DOUGLAS-FIR
1.6 INCHES PLUS

S I T E I N D E X = 8 5 . (5 0 Y E A R S B H)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40 HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CUTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY		19.06	.1	0	5.				
80 71	109.6 103.4	23.66	212.5	70.	7452.	183.	161.	157.	150.
YEARLY MORTALITY		20.52	.2	0.	7.				
85 76	113.0 106.6	24.93	234.6	69.	8341.	175.	162.	159.	151.
YEARLY MORTALITY		21.95	.3	0	10.				
90 81	116.2 109.6	26.11	255.6	69.	9193.	168.	163.	159.	152.
90 81									
BEFORE	116.2 109.6	26.11	255.6	69.	9193.	168.	163.	159.	152.
CUT		22.19	30.8	11.	1210.				
RESIDUAL	116.2 109.6	26.83	224.8	57.	7984.				
SUM CUTS			190.3	222.	6354.				
SUM MORTALITY			10.4	20.	332.				
YEARLY MORTALITY		23.84	.2	0	7.				
95 86	119.1 112.7	28.16	246.7	57.	8831.	165.	164.	160.	152.
YEARLY MORTALITY		24.92	.3	0.	9.				
100 91	121.9 115.4	29.42	267.7	57.	9635.	158.	164.	160.	152.
100 91									
HARVEST	121.9 115.4	29.42	267.7	57.	9635.	158.	164.	160.	152.
SUM CUTS			458.0	279.	15989.				
SUM MORTALITY			12.2	21.	399.				

D F S I M VERSION 1.0
TABLE 12A. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(Continued) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBICFEET PER ACRE 4-INCH TOP
TOTAL AGE 40.					
BEFORE	10.3	148.5	259.	3641.	3374.
CUT	9.4	37.8	79.	915.	830.
RESIDUAL	10.6	110.6	180.	2726.	2543.
SUM CUTS		37.8	79.	915.	830.
SUM MORTALITY				12	
TOTAL AGE 50.					
BEFORE	12.7	179.5	203.	5254.	4975.
CUT	10.8	42.5	67.	1290.	1199.
RESIDUAL	13.6	137.0	136.	3964.	3777.
SUM CUTS		80.3	146.	2204.	2029.
SUM MORTALITY				48.	
TOTAL AGE 63.					
BEFORE	17.0	209.1	133.	6945.	6667.
CUT	13.5	41.7	40.	1437.	1418.
RESIDUAL	18.2	167.3	93.	5458.	5250.
SUM CUTS		122.0	186.	3691.	3447.
SUM MORTALITY				128.	
TOTAL AGE 77.					
BEFORE	21.8	236.0	91.	8334.	8000.
CUT	18.0	37.4	21.	1441.	1383.
RESIDUAL	22.8	198.6	70.	6893.	6617.
SUM CUTS		159.5	207.	5132.	4830.
SUM MORTALITY				218.	

TABLE 12A. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(CONTINUED) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 90.					
BEFORE	26.1	255.6	69.	9193.	8826.
CUT	22.2	30.5	11.	1210.	1161.
RESIDUAL	26.8	224.8	57.	7984.	7664.
SUM CUTS		190.2	219.	6342.	5991.
SUM MORTALITY				322.	
TOTAL ME100.					
WEST	29.4	267.7	57.	9635.	9250.
SUM CUTS		458.0	275.	15977.	15241.
SUM MORTALITY				391.	

TABLE 12A. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(CONTINUED) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL ME 40.								
BEFORE	10.9	136.4	210.	3288.	3156.	2763.	13960.	10255.
CUT	10.0	33.5	61.	817.	761.	632.	3267.	2358.
RESIDUAL	11.3	102.9	148.	2471.	2395.	2132.	10693.	7897.
SUM CUTS		33.5	61.	817.	761.	632.	3267.	2358.
SUM MORTALITY				4.				
TOTAL AGE 50.								
BEFORE	13.0	176.3	193.	5171.	4929.	4580.	25520.	20281.
CUT	11.4	41.2	58.	1242.	1176.	1055.	5957.	4552.
RESIDUAL	13.6	135.2	134.	3929.	3752.	3525.	19563.	15729.
SUM CUTS		74.7	120.	2059.	1938.	1687.	9225.	6910.
SUM MORTALITY				23.				
TOTAL AGE 63.								
BEFORE	17.0	209.1	133.	4945.	6667.	6494.	38913.	32979.
CUT	13.3	41.7	40.	1487.	1418.	1376.	3355.	6855.
RESIDUAL	13.2	167.3	93.	5458.	5250.	5120.	30559.	26124.
SUM CUTS		116.4	160.	3546.	3355.	3063.	17579.	13765.
SUM MORTALITY				77.				
TOTAL AGE 77.								
BEFORE	21.8	236.0	91.	8334.	8000.	7920.	50024.	44222.
CUT	18.0	37.4	21.	1441.	1383.	1369.	8894.	7920.
RESIDUAL	22.8	198.6	70.	6893.	6617.	6551.	41130.	36303.
SUM CUTS		153.8	181.	4987.	4738.	4432.	26473.	21685.
SUM MORTALITY				167.				

D F S I M VERSION 1.0
 TABLE 12A. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
 (CONTINUED) MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 85. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 90.								
BEFORE	21.1	255.6	69.	9193.	8826.	8737.	57084.	51700.
CUT	22.2	30.8	11.	1210.	1161.	1150.	7719.	7323.
RESIDUAL	26.8	224.8	57.	7984.	7664.	7588.	49365.	44377.
SUM CUTS		184.6	192.	6197.	5900.	5582.	34192.	29008.
SUM MORTALITY				270.				
TOTAL AGE 100.								
HARVEST	29.4	267.7	57.	9635.	9250.	9157.	60906.	55924.
SUM CUTS		452.3	249.	15832.	15149.	14739.	95098.	84932.
SUM MORTALITY				340.				

D F S I M VERSION 1.0
 TABLE 12B. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

STAND ORIGIN — NATURAL.

STAND WILL BE PRECOMMERCIALY THINNED AT AGE 13. TO 300. TREES PER ACRE.

FIRST COMMERCIAL THINNING IS WANTED AT AGE 34.

THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 6.

COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:

34. 43. 55. 68. 83. 96.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE STAND WILL BE FERTILIZED AS FOLLOWS:

STAND AGE	POUNDS OF NITROGEN
23.	200.
38.	200.
53.	200.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.

THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS MUST BE AT LEAST 8.00 INCHES.

THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE AT LEAST 20. SQUARE FEET PER ACRE.

THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL THINNING CAN OCCUR.

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
15	7	20.7	16.6	2.70	11.9	300.	99.	39.		7.		
20	12	33.8	31.1	4.89	39.1	300.	525.	117.		26.		
YEARLY MORTALITY				4.36	.1	1.	1					
25	17	46.9	43.6	6.92	78.0	298.	1419.	245.	57.	57.	44.	28.
YEARLY MORTALITY				4.50	.1	1	2.					
30	22	60.1	55.9	8.84	125.6	295.	2880.	296.	96.	96.	85.	76.
34	26											
BEFORE		69.0	63.7	9.94	155.3	288.	4025.	280.	119.	118.	108.	103.
CUT				9.25	40.3	87.	1042.					
RESIDUAL		69.0	64.1	10.22	115.0	202.	2984.					
SUM CUTS					40.3	87.	1042.					
SUM MORTALITY					1.4	12.	34.					

DFSIM VERSION 1.0

TABLE 123. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(CONTINUED) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

TOT AGE YRS	BH AGE YRS	LOREY HT40 FEET	HT FEET	BASAL DBH INCH	AREA/A SQ FT	TREES PER ACRE	CVTS PER ACRE	CAI NET CVTS	*MAI GROSS 1.6+	CVTS* NET 1.6+	**MAI ****NET**** 5.6+	CV4** 7.6+		
YEARLY MORTALITY				5.57	.1	0.	2.							
35	27	71.0	66.0	10.55	122.4	201.	3262.	278.	124.	123.	113.	108.		
YEARLY MORTALIYY				6.61	.2	1.	5.							
40	32	80.8	75.2	12.02	157.0	199.	4710.	333.	145.	144.	134.	131.		
43	35													
BEFORE				86.9	81.1	12.95	179.4	196.	5752.	343.	160.	158.	149.	146.
CUT						10.92	41.7	64.	1384.					
RESIDUAL				86.9	81.4	13.83	137.7	132.	4368.					
SUM CUTS						82.1	151.	2426.						
SUM MORTALITY						2.8	17.	77.						
YEARLY MORTALITY				9.01	.1	0.	3.							
45	37	90.6	85.0	14.55	152.0	132.	4998.	3110	16	165.	56.	53.		
YEARLY MORTALITY				11.31	.2	0.	6.							
50	42	98.6	92.7	15.93	180.9	131.	6404.	267.	179.	177.	167.	165.		
YEARLY MORTALITY				11.97	.4	0.	15.							
55	47	105.8	99.6	17.14	206.5	129.	7770.	308.	188.	185.	176.	174.		
55	47													
BEFORE				105.8	99.6	17.14	206.5	129.	7770.	308.	188.	185.	176.	174.
CUT						13.93	40.2	38.	1613.					
RESIDUAL				105.8	100.0	18.32	166.3	91.	6157.					
SUM CUTS						122.3	189.	4039.						
SUM MORTALITY						4.9	20.	155.						
YEMLY MORTALITY				14.87	.2	0.	7.							
60	52	113.2	107.3	20.03	177.5	90.	7705.	290.	199.	196.	186.	184.		
YEARLY MORTALITY				16.21	.3	0.	11.							
65	57	119.3	113.3	21.33	221.9	89.	9012.	247.	204.	201.	191.	189.		
68	60													
BEFORE				122.5	116.5	22.03	235.0	89.	9735.	239.	206.	203.	193.	191.
CUT						18.23	38.5	21.	1724.					
RESIDUAL				122.5	116.6	23.09	196.5	68.	8011.					
SUM CUTS						160.8	210.	5762.						
SUM MORTALITY						7.7	23.	268.						

DFSIM VERSION 1.0

TABLE 12B. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(CONTINUED) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**		
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY			18.36	.1	0.	5.					
70 62	124.6	118.8	23.67	206.1	67.	8504.	243.	208.	204.	194.	193.
YEARLY MORTALITY			19.85	.2	0.	9.					
75 67	129.6	123.8	25.03	229.0	67.	9682.	231.	210.	206.	196.	195.
YEARLY MORTALITY			21.30	.3	0.	14.					
80 72	134.2	128.3	26.28	250.3	66.	10807.	221.	212.	207.	197.	196.
83 75											
BEFORE	136.8	130.9	27.00	242.5	66.	11459.	215.	213.	207.	198.	197.
CUT			22.95	37.9	13.	1793.					
RESIDUAL	136.8	131.0	27.92	224.7	53.	9665.					
SUM CUTS				198.6	223.	7556.					
SUM MORTALITY				11.2	24.	420.					
YEARLY MORTALITY			23.56	.2	0.	7.					
85 77	138.4	132.3	28.50	233.7	53.	10119.	222.	213.	208.	198.	197.
YEARLY MORTALITY			25.22	.2	0.	11.					
90 82	142.4	137.0	29.89	255.4	52.	11193.	211.	214.	208.	199.	198.
YEARLY MORTALITY			26.43	.3	0.	15.					
95 87	146.1	140.8	31.19	276.0	52.	12216.	201.	214.	208.	199.	198.
96 58											
BEFORE	146.8	141.6	31.44	279.9	52.	12414.	199.	214.	208.	199.	197.
CUT			26.72	29.5	8.	1454.					
RESIDUAL	146.8	141.7	32.18	250.2	44.	10960.					
SUM CUTS				223.4	231.	9010.					
SUM MORTALITY				14.5	25.	563.					
YEARLY MORTALITY			28.22	.2	0.	10.					
100 92	149.6	144.8	33.32	267.1	44.	11773.	198.	214.	208.	198.	197.
100 92											
HARVEST	149.6	144.8	33.32	267.1	44.	11773.	198.	214.	208.	198.	197.
SUM CUTS				495.5	275.	20783.					
SUM MORTALITY				15.2	25.	597.					

D F S I M VERSION 1.0
TABLE 12B. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(Continued) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 34.					
BEFORE	10.5	152.3	256.	3966.	3637.
CUT	9.5	40.2	82.	1027.	936.
RESIDUAL	10.9	112.1	173.	2939.	2751.
SUM CUTS		40.2	82.	1027.	936.
SUM MORTALITY				13.	
TOTAL AGE 43.					
BEFORE	13.0	179.2	196.	5738.	5455.
CUT	11.0	41.7	63.	1381.	1290.
RESIDUAL	13.3	137.5	133.	4357.	4165.
SUM CUTS		81.9	145.	2408.	2226.
SUM MORTALITY				40.	
TOTAL ME 55.					
BEFORE	17.1	206.5	129.	7770.	7459.
CUT	13.9	40.2	38.	1613.	1538.
RESIDUAL	18.3	166.3	91.	6157.	5921.
SUM CUTS		122.1	183.	4920.	3764.
SUM MORTALITY				117.	
TOTAL AGE 68.					
BEFORE	22.0	235.0	89.	9735.	9345.
CUT	18.2	38.5	21.	1724.	1655.
RESIDUAL	23.1	196.5	68.	8011.	7691.
SUM CUTS		160.6	204.	5744.	5419.
SUM MORTALITY				230.	

TABLE 12B. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(CONTINUED) MANAGED YIELD TABLE
FOR DOUGLASS-FIR
5.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 83.					
BEFORE	27.0	262.5	66.	11459.	11000.
CUT	23.0	37.9	13.	1793.	1722.
RESIDUAL	27.9	224.7	53.	9665.	9278.
SUM CUTS		193.5	217.	7537.	7140.
SUM MORTALITY				383.	
TOTAL AGE 96.					
BEFORE	31.4	279.9	52.	12414.	11918.
CUT	26.7	29.8	8.	1454.	1396.
RESIDUAL	32.2	250.2	44.	10960.	10522.
SUM CUTS		228.3	225.	8992.	8536.
SUM MORTALITY				526.	
TOTAL AGE 100.					
HARVEST	33.3	267.1	44.	11773.	11303.
SUM CUTS		495.3	269.	20765.	19839.
SUM MORTALITY				585.	

D F S ■ M VERSION 1.0
TARE 12B. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(CONTINUED) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS DBH)

		BASAL		TREES					
		DBH	AREA	PER	PER				
		INCHES	PER ACRE	PER	CVTS	CV4	CV6	IV6	SV6
			SQ. FT.	ACRE					
TOTAL AGE 34.									
BEFORE		11.1	141.3	211.	3630.	3485.	3071.	16005.	11978.
CUT		10.1	35.5	64.	924.	862.	722.	3827.	2802.
RESIDUAL		11.5	105.5	147.	2706.	2623.	2349.	12179.	9176.
SUM CUTS			35.8	64.	324.	862.	722.	3527.	2802.
SUM MORTALITY					4.				
TOTAL AGE 43.									
BEFORE		13.2	176.6	185.	5672.	5416.	5054.	29188.	23587.
CUT		11.6	40.4	55.	1335.	1263.	1143.	6605.	5107.
RESIDUAL		13.9	136.2	130.	4337.	4153.	3911.	22583.	18481.
SUM CUTS			76.1	119.	2259.	2125.	1866.	10433.	7909.
SUM MORTALITY					15.				
TOTAL AGE 55.									
BEFORE		17.1	206.5	129.	7770.	7458.	7271.	45183.	38810.
CUT		13.9	40.2	38.	1613.	1538.	1491.	9246.	7655.
RESIDUAL		18.3	166.3	91.	6157.	5921.	5780.	35937.	31155.
SUM CUTS			116.4	157.	3871.	3663.	3357.	19679.	15564.
SUM MORTALITY					58.				
TOTAL AGE 68.									
BEFORE		22.0	235.0	89.	9735.	9145.	9252.	60608.	54243.
CUT		13.2	35.5	21.	1724.	1655.	1638.	10836.	9726.
RESIDUAL		23.1	196.5	68.	8011.	7691.	7614.	49772.	44517.
SUM CUTS			154.9	178.	5595.	5318.	4995.	30515.	25290.
SUM MORTALITY					171.				

TABLE 12B. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(CONTINUED) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 105. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 83.								
BEFORE	27.0	262.5	66.	11459.	11000.	10890.	74087.	68086.
CUT	23.0	37.9	13.	1793.	1722.	1704.	11677.	11228.
RESIDUAL	27.9	224.7	53.	9665.	9278.	9186.	62410.	56858.
SUM CUTS		192.7	192.	7388.	7039.	6699.	42192.	36518.
SUM MORTALITY				324.				
TOTAL AGE 96.								
BEFORE	31.4	279.9	52.	12414.	11918.	11799.	81957.	76533.
CUT	24.7	29.8	8.	1454.	1396.	1370.	9574.	9479.
RESIDUAL	32.2	250.2	44.	10960.	10522.	10428.	72382.	67054.
SUM CUTS		222.5	199.	8843.	8435.	8070.	51766.	45997.
SUM MORTALITY				467.				
TOTAL AGE 100.								
HARVEST	33.3	267.1	44.	11773.	11303.	11190.	78220.	73409.
SUM CUTS		489.6	243.	20616.	19738.	19259.	129987.	119405.
SUM MORTALITY				526.				

**TABLE 120 -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS**

SITE INDEX = 125. (50 YEARS BH)

STAND ORIGIN --- NATURAL.

STAND WILL BE PRECOMMERCIALLY THINNED AT AGE 11. TO 300. TREES PER ACRE.

FIRST COMMERCIAL THINNING IS WANTED AT AGE 29.

THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 6.

COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:

29. 33. 50. 63. 77. 91.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE STAND WILL BE FERTILIZED AS FOLLOWS:

STAND AGE	POUNDS OF NITROGEN
20.	200.
35.	200.
50.	200.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.

THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS MUST BE AT LEAST 8.00 INCHES.

THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE AT LEAST 20. SQUARE FEET PER ACRE.

THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL THINNING CAN OCCUR.

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+
								5.6+	7.6+
15	8	26.6	23.8	3.74	22.9	300.	246.	86.	16.
YEARLY MORTALITY				3.99	.1	1	1.		
20	13	42.3	39.3	6.21	62.9	299.	1043.	216.	52.
YEARLY MORTALITY				4.3	.1	1.	5.		
25	18	58.6	54.6	8.55	118.0	296.	2654.	360.	107.
29	22							106.	93.
									81.
BEFORE		70.1	64.8	9.93	154.8	288.	4093.	356.	142.
CUT				9.24	40.0	86.	1049.		141.
RESIDUAL		70.1	65.3	10.20	114.9	202.	3044.		129.
									122.
SUM CUTS					60.0	86.	1049.		
SUM MORTALITY					1.4	12.	34.		

DFSIM VERSION 1.0

TABLE 12C. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(CONTINUED) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

TOT	BH		LOREY		BASAL		TREES		GUTS	CAI	*MAI	CVTS?	**MAI	CV4**
AGE	AGE	HT40	HT		DBH	AREA/A	PER		PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET		INCH	SQ FT	ACRE		ACRE	GUTS	1.6+	1.6+	5.6+	7.6+
YEARLY MORTALITY					5.58	.1	0.	2.						
30	23	72.8	67.8	10.61	124.0	202.	3400.	357.	150.	148.	136.	131.		
YEARLY MORTALITY					6.53	.2	1.	5.						
35	28	85.1	79.5	12.24	162.8	199.	5168.	355.	179.	173.	166.	163.		
38	31													
BEFORE		92.5	86.5	13.11	185.8	196.	6381.	426.	198.	196.	184.	181.		
CUT				11.07	46.4	69.	1648.							
RESIDUAL		92.5	87.0	14.21	139.4	127.	4733.							
SUM CUTS						86.4	155.	2697.						
SUM MORTALITY						2.9	18.	84.						
YEARLY MORTALITY					8.31	.1	0.	3.						
40	33	97.3	91.8	15.03	155.4	126.	5521.	390.	208.	205.	194.	192.		
YEARLY MORTALITY					9.51	.2	0.	7.						
45	38	107.8	102.1	16.61	187.5	125.	7310.	341.	225.	222.	211.	209.		
YEARLY MORTALITY					10.61	.4	1.	16.						
50	43	117.0	111.1	17.92	213.6	122.	8966.	326.	237.	233.	222.	220.		
50	43													
BEFORE		117.0	111.1	17.92	213.6	122.	8966.	326.	237.	233.	222.	220.		
CUT				14.56	42.4	37.	1892.							
RESIDUAL		117.0	111.5	19.18	171.3	85.	7074.							
SUM CUTS						128.7	192.	4589.						
SUM MORTALITY						5.2	23.	177.						
YEARLY MORTALITY					15.23	.2	0.	9.						
55	48	126.2	120.9	20.93	202.5	85.	8909.	364.	249.	245.	234.	232.		
YEARLY MORTALITY					16.63	.3	0.	15.						
60	53	134.2	129.1	22.33	228.1	84.	10560.	312.	257.	252.	240.	239.		
63	56													
BEFORE		138.5	133.4	23.08	241.5	83.	11470.	300.	260.	255.	243.	241.		
CUT				19.25	33.9	19.	1983.							
RESIDUAL		138.5	133.6	24.11	202.6	64.	9437.							
SUM CUTS						167.6	211.	6572.						
SUM MORTALITY						8.4	25.	323.						

TABLE 12C. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(CONTINUED) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**		
AGE	AGE	HTBO	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****			
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+		
YEARLY MORTALITY				18.86	.2	0.	8.							
65	58	141.2	136.6	24.72	212.6	64.	10105.	305.	262.	257.	245.	243.		
YEARLY MORTALITY				20.39	.3	0.	13.							
70	63	147.7	143.4	26.14	235.9	63.	11583.	290.	265.	259.	247.	246.		
YEARLY MORTALITY				21.88	.4	0.	20.							
75	68	153.7	149.7	27.45	257.2	63.	12992.	276.	267.	261.	249.	247.		
77	70													
BEFORE				156.0	152.1	27.94	265.3	62.	13536.	271.	268.	261.	249.	248.
CUT						23.75	35.5	12.	1959.					
RESIDUAL				156.0	152.3	28.81	229.8	51.	11577.					
SUM CUTS						203.1	223.	8531.						
SUM MORTALITY						12.3	27.	518.						
YEARLY MORTALITY				24.16	.2	0.	12.							
80	73	159.3	156.0	29.70	243.3	51.	12418.	275.	269.	262.	250.	249.		
YEARLY MORTALITY				25.83	.3	0.	17.							
85	78	164.5	161.7	31.09	264.4	50.	13748.	261.	269.	262.	250.	249.		
YEARLY MORTALITY				27.47	.5	0.	24.							
90	83	169.4	167.0	32.40	284.2	50.	15012.	248.	270.	262.	250.	249.		
91	84													
BEFORE				170.3	168.0	32.65	288.0	50.	15258.	245.	270.	261.	250.	248.
CUT						27.75	33.6	8.	1948.					
RESIDUAL				170.3	168.3	33.51	254.4	42.	13310.					
SUM CUTS						236.7	231.	10479.						
SUM MORTALITY						16.7	28.	753.						
YEARLY MORTALITY				29.39	.3	0.	15.							
95	88	173.9	172.6	34.68	271.2	41.	14326.	247.	270.	261.	249.	248.		
YEARLY MORTALITY				30.59	.4	0.	21.							
100	93	178.2	177.6	36.09	291.2	41.	15523.	235.	269.	260.	248.	247.		
100	93													
HARVEST				178.2	177.6	36.09	291.2	41.	15523.	235.	269.	260.	248.	247.
SUM CUTS						527.9	272.	26002.						
SUM MORTALITY						19.4	28.	894.						

D F S I M VERSION 10
TABLE 12C. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(CONTINUED) MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 29.					
BEFORE	10.5	151.8	254.	4031.	3748.
CUT	9.5	39.8	82.	1034.	943.
RESIDUAL	10.9	112.0	172.	2997.	2805.
SUM CUTS		39.8	82.	1034.	943.
SUM MORTALITY				12.	
TOTAL AGE 38.					
BEFORE	13.2	185.6	195.	6369.	6059.
CUT	11.2	46.3	68.	1643.	1539.
RESIDUAL	14.2	139.3	127.	4726.	4520.
SUM CUTS		86.1	149.	2677.	2482.
SUM MORTALITY				42.	
TOTAL AGE 50.					
BEFORE	17.9	213.6	122.	8966.	8608.
CUT	14.6	42.4	37.	1892.	1809.
RESIDUAL	19.2	171.3	85.	7074.	6799.
SUM CUTS		123.5	186.	4569.	4291.
SUM MORTALITY				136.	
TOTAL AGE 63.					
BEFORE	23.1	241.5	83.	11470.	11011.
CUT	19.3	38.9	19.	1983.	1903.
RESIDUAL	24.1	202.6	64.	9487.	9108.
SUM CUTS		167.3	205.	6551.	6194.
SUM MORTALITY				282.	

D F S I M VERSION 10
TABLE 12C. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(Continued) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL ME 77.					
BEFORE	27.9	265.3	62.	13536.	12994.
CUT	23.8	35.5	12.	1959.	1881.
RESIDUAL	28.8	229.8	51.	11577.	11114.
SUM CUTS		202.8	217.	8510.	8075.
SUM MORTALITY				476.	
TOTAL AGE 91.					
BEFORE	32.7	288.0	50.	15258.	14647.
CUT	27.5	33.6	8.	1948.	1870.
RESIDUAL	33.5	254.4	42.	13310.	12777.
SUM CUTS		235.5	225.	10458.	9944.
SUM MORTALITY				711.	
TOTAL AGE 100.					
HARVEST	36.1	291.2	41.	15523.	14902.
SUM CUTS		527.6	266.	25981.	24847.
SUM MORTALITY				853.	

D F S I M VERSION 1.0
TABLE 12C. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(CONTINUED) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE		TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
		PER	SQ. FT.						
TOTAL AGE 29.									
BEFORE	11.1	140.8		210.	3693.	3546.	3126.	16436.	12352.
CUT	10.2	35.4		63.	930.	867.	728.	3880.	2850.
RESIDUAL	11.5	105.4		147.	2763.	2678.	2399.	12555.	9502.
SUM CUTS		35.4		63.	930.	867.	728.	3880.	2850.
SUM MORTALITY					3.				
TOTAL AGE 38.									
BEFORE	13.5	183.1		185.	6301.	6016.	5641.	33372.	27280.
CUT	11.7	44.9		60.	1592.	1506.	1373.	8056.	6281.
RESIDUAL	14.3	138.2		125.	4709.	4510.	4268.	25315.	21000.
SUM CUTS		80.3		123.	2522.	2373.	2101.	11936.	9131.
SUM MORTALITY					16.				
TOTAL AGE 50.									
BEFORE	17.9	213.6		122.	8966.	8608.	8431.	53995.	47066.
CUT	14.6	42.4		37.	1892.	1809.	1764.	11166.	9397.
RESIDUAL	19.2	171.3		85.	7074.	6799.	6667.	42829.	37669.
SUM CUTS		122.6		159.	4414.	4182.	3865.	23103.	18528.
SUM MORTALITY					62.				
TOTAL AGE 63.									
BEFORE	23.1	241.5		83.	11470.	11011.	10901.	73710.	66834.
CUT	19.3	38.9		19.	1983.	1903.	1884.	12703.	11619.
RESIDUAL	24.1	202.6		64.	9487.	9108.	9017.	61009.	55215.
SUM CUTS		161.5		179.	6397.	6086.	5749.	35804.	30147.
SUM MORTALITY					209.				

D F S I M VERSION 1.0
 TABLE 12C. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
 (CONTINUED) MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 125. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 77.								
BEFORE	27.9	265.3	62.	13536.	12994.	12864.	90003.	53557.
CUT	23.8	35.5	12.	1959.	1881.	1861.	12899.	12552.
RESIDUAL	28.8	229.8	51.	11577.	11114.	11004.	77104.	71005.
SUM CUTS		197.0	190.	8356.	7366.	7610.	48703.	42699.
SUM MORTALITY				403.				
TOTAL AGE 91.								
BEFORE	32.7	288.0	50.	15258.	14647.	14501.	102231.	97689.
CUT	27.8	33.6	8.	1948.	1870.	1823.	12855.	12726.
RESIDUAL	33.5	254.4	42.	13310.	12773.	12678.	89377.	84963.
SUM CUTS		230.6	198.	10303.	9836.	9433.	61558.	55425.
SUM MORTALITY				638.				
TOTAL AGE 100.								
HARVEST	36.1	291.2	41.	15523.	14902.	14753.	104010.	101273.
SUM CUTS		521.8	239.	25827.	24738.	24186.	165568.	156698.
SUM MORTALITY				780.				

D F S I M VERSION 10
 TABLE 12D. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
 MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

STAND ORIGIN --- NATURAL

STAND WILL BE PRECOMMERCIALLY THINNED AT AGE 10. TO 300. TREES PER ACRE.

FIRST COMMERCIAL THINNING IS WANTED AT AGE 25.

THE NUMBER OF COMMERCIAL THINNINGS SPECIFIED IS 7.

COMMERCIAL THINNINGS ARE SCHEDULED AT THE FOLLOWING AGES:

25. 32. 42. 54. 67. 80. 94.

THE SCHEDULED AGE AT THE HARVEST CUT IS 100.

THE STAND WILL BE FERTILIZED AS FOLLOWS:

STAND AGE	POUNDS OF NITROGEN
17.	200.
32.	200.
47.	200.

THE OUTPUT TABLE WILL HAVE REPORT AGES OTHER THAN CUTTING AGES.
 THE AVERAGE DIAMETER OF ALL CUT TREES AT COMMERCIAL THINNINGS
 MUST BE AT LEAST 8.00 INCHES.

THE BASAL AREA CUT AT EACH COMMERCIAL THINNING MUST BE
 AT LEAST 20. SQUARE FEET PER ACRE.

THE BASAL AREA PER ACRE OF ALL TREES 5.6 INCHES PLUS MUST BE
 AT LEAST 100.0 SQUARE FEET BEFORE THE FIRST COMMERCIAL
 THINNING CAN OCCUR.

TOT	BH	LOREY		BASAL		TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE	AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS	YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CUTS	1.6+	1.6+	5.6+	7.6+
11	5	19.4	14.9	2.47	10.0	300.	77.	40.		7.		
15	9	33.8	31.1	4.88	38.9	300.	524.	159.		35.		
YEARLY MORTALITY				4.41	.1	1.	2.					
20	14	52.6	49.1	7.74	97.2	298.	1980.	394.	99.	99.	83.	65.
YEARLY MORTALITY				4.96	.4	3.	10.					
25	19	70.3	65.1	9.89	154.4	289.	4108.	432.	166.	164.	150.	142.
25	19											
BEFORE		70.3	65.1	9.89	154.4	289.	4108.	432.	166.	164.	150.	142.
CUT				9.22	39.8	86.	1054.					
RESIDUAL		70.3	65.5	10.16	114.6	204.	3053.					
SUM CUTS					39.8	86.	1054.					
SUM MORTALITY					1.2	11.	30.					

D F S I M VERSION 1.0
TABLE 12D. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(Continued) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	***MAI	CV4**
AGE AGE	HT40	HT	DBH	AREA/A	PER	PER	NET	GROSS	NET
YRS YRS	FEET	FEET	INCH	SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+
								5.6+	7.6+
YEARLY MORTALITY			6.34	.2	1	6.			
30 24	85.8	80.3	12.20	162.8	200.	5238.	443.	211.	210.
32 26								196.	192.
BEFORE	91.6	85.9	12.86	179.0	199.	6129.	446.	227.	224.
CUT			10.36	42.0	65.	1481.		211.	207.
RESIDUAL	91.6	86.3	13.73	137.0	133.	4649.			
SUM CUTS				81.8	151.	2535.			
SUM MORTALITY				2.3	16.	65.			
YEARLY MORTALITY			8.09	.1	0.	4.			
35 29	100.4	95.0	15.03	163.2	133.	6030.	478.	247.	245.
YEARLY MORTALITY			9.34	.3	1	11.			
40 34	113.7	108.3	16.75	199.4	130.	3284.	430.	273.	270.
42 36								257.	254.
BEFORE	118.5	113.1	17.32	211.3	129.	9126.	419.	281.	278.
CUT			14.08	43.8	41.	2004.		264.	261.
RESIDUAL	118.5	113.6	18.62	167.5	89.	7122.			
SUM CUTS				125.6	191.	4539.			
SUM MORTALITY				4.2	20.	143.			
YEARLY MORTALITY			11.36	.1	0.	5.			
45 39	125.4	120.6	19.70	186.5	88.	8340.	403.	290.	286.
YEARLY MORTALITY			12.74	.3	0.	14.			
50 44	136.4	132.1	21.37	216.3	87.	10428.	442.	303.	299.
54 43								285.	283.
BEFORE	144.7	140.8	22.60	237.9	85.	12086.	395.	313.	308.
CUT			18.79	38.0	20.	2067.		293.	291.
RESIDUAL	144.7	141.1	23.63	199.3	66.	10019.			
SUM CUTS				163.6	211.	6606.			
SUM MORTALITY				7.0	23.	279.			
YEARLY MORTALITY			17.57	.1	0.	7.			
55 49	146.6	143.2	23.98	205.5	66.	10417.	398.	315.	310.
YEARLY MORTALITY			19.16	.3	0.	14.			
60 54	155.6	152.9	25.54	231.2	65.	12310.	371.	321.	315.
YEARLY MORTALITY			20.66	.4	0.	23.			
65 59	163.9	161.9	26.93	254.0	64.	14113.	354.	325.	319.
67 61								304.	302.

TABLE 12D. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(CONTINUED) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
1.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

TOT BH	LOREY	BASAL	TREES	CVTS	CAI	*MAI	CVTS*	**MAI	CV4**
AGE AGE	HTBO HT	DBH AREA/A	PER	PER	NET	GROSS	NET	****NET****	
YRS YRS	FEET FEET	INCH SQ FT	ACRE	ACRE	CVTS	1.6+	1.6+	5.6+	7.6+
BEFORE	167.0 165.3	27.45 262.5	64.	14811.	347.	327.	320.	305.	303.
CUT		23.34 35.4	12.	2142.					
RESIDUAL	167.0 165.6	28.31 227.2	52.	12669.					
SUM CUTS		199.0	223.	8748.					
SUM MORTALITY		10.7	25.	486.					
YEARLY MORTALITY		22.92 .2	0.	14.					
70 64	171.6 170.8	29.25 241.3	52.	13734.	349.	329.	321.	307.	305.
YEARLY MORTALITY		24.58 .4	0.	21.					
75 69	178.7 178.7	30.69 263.2	51.	15426.	331.	331.	322.	308.	306.
YEARLY WTALITY		26.20 .5	0.	31.					
80 74	185.4 185.4	32.04 283.2	51.	17033.	315.	332.	322.	308.	306.
80 74									
BEFORE	185.4 185.4	32.04 283.2	51.	17033.	315.	332.	322.	308.	306.
CUT		27.23 31.9	8.	2085.					
RESIDUAL	185.4 185.4	32.85 251.3	43.	14948.					
SUM CUTS		230.9	231.	10833.					
SUM MORTALITY		15.2	26.	750.					
YEARLY MORTALITY		28.65 .3	0.	21.					
85 79	191.6 191.6	34.34 272.4	42.	16549.	312.	332.	322.	308.	307.
YEARLY MORTALITY		30.31 .5	0.	29.					
90 84	197.5 197.5	35.73 292.1	42.	18059.	296.	332.	321.	307.	306.
94 88									
BEFORE	201.9 201.9	36.81 306.9	42.	19211.	284.	331.	320.	306.	304.
CUT		31.29 31.9	6.	2188.					
RESIDUAL	201.9 201.9	37.66 275.1	36.	17023.					
SUM CUTS		262.8	237.	13021.					
SUM MORTALITY		20.7	27.	1098.					
YEARLY MORTALITY		32.18 .2	0.	15.					
95 89	203.0 203.0	37.95 279.1	36.	17332.	309.	331.	320.	305.	304.
YEARLY MORTALITY		33.44 .4	0.	26.					
100 94	208.2 208.2	39.44 298.9	35.	18768.	281.	330.	318.	304.	303.
100 94									
HARVEST	208.2 208.2	39.44 298.9	35.	18768.	281.	330.	318.	304.	303.
SUM CUTS		561.7	272.	31789.					
SUM MORTALITY		22.8	28.	1227.					

D F S I M VERSION 1.0
 TABLE 12D. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
 (CONTINUED) MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 5.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL AGE 25.					
BEFORE	10.4	151.2	254.	4044.	3758.
CUT	9.4	39.6	81.	1039.	947.
RESIDUAL	10.9	111.6	173.	3005.	2811.
SUM CUTS		39.6	81.	1039.	947.
SUM MORTALITY				11.	
TOTAL AGE 32.					
BEFORE	12.9	175.7	196.	6115.	5808.
CUT	11.0	41.9	63.	1475.	1379.
RESIDUAL	13.5	136.8	132.	4640.	4423.
SUM CUTS		81.5	145.	2514.	4440.
SUM MORTALITY				31.	
TOTAL AGE 42.					
BEFORE	17.3	211.3	129.	9126.	8761.
CUT	14.1	43.5	41.	2004.	1912.
RESIDUAL	18.6	167.5	89.	7122.	6848.
SUM CUTS		125.3	185.	4517.	4238.
SUM MORTALITY				92.	
TOTAL AGE 54.					
BEFORE	22.6	237.9	85.	12086.	11603.
CUT	18.8	38.0	20.	2067.	1985.
RES IDUAL	23.6	199.8	66.	10019.	9618.
SUM CUTS		163.4	205.	6584.	6223.
SUM MORTALITY				229.	

D F S I M VERSION 1.0
TABLE 12D. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(CONTINUED) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
5.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	TOTAL CUBIC FEET PER ACRE	CUBIC FEET PER ACRE 4-INCH TOP
TOTAL ME 67.					
BEFORE	27.5	262.5	64.	14811.	14218.
CUT	23.3	35.4	12.	2142.	2056.
RESIDUAL	28.3	227.2	52.	12669.	12162.
SUM CUTS		198.7	217.	8726.	8279.
SUM MORTALITY				451.	
TOTAL AGE 80.					
BEFORE	32.0	283.2	51.	17033.	16352.
CUT	27.2	31.9	8.	2085.	2002.
RESIDUAL	32.8	251.3	43.	14948.	14350.
SUM CUTS		230.6	225.	10811.	10281.
SUM MORTALITY				715.	
TOTAL AGE 94.					
BEFORE	36.8	306.0	42.	19211.	18443.
CUT	31.3	31.9	6.	2188.	2101.
RESIDUAL	37.7	275.1	36.	17023.	16342.
SUM CUTS		252.5	231.	13000.	12382.
SUM MORTALITY				1063.	
TOTAL AGE 100.					
HARVEST	39.4	298.9	35.	18768.	18017.
SUM CUTS		561.4	266.	31767.	30399.
SUM MORTALITY				1203.	

D F S ■ M VERSION 1.0
 TABLE 12D. -- PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
 (CONTINUED) MANAGED YIELD TABLE
 FOR DOUGLAS-FIR
 7.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

		BASAL AREA DBH INCHES	PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 25.									
BEFORE	11.1	140.1	209.	3700.	3552.	3130.	16474.	12385.	
CUT	10.2	35.2	62.	934.	870.	730.	3893.	2860.	
RESIDUAL	11.4	104.9	147.	2766.	2682.	2400.	12581.	9524.	
SUM CUTS		35.2	62.	934.	870.	730.	3893.	2860.	
SUM MORTALITY				3.					
TOTAL AGE 32.									
BEFORE	13.2	175.8	184.	6029.	5762.	5379.	31695.	25790.	
CUT	11.5	40.3	55.	1422.	1343.	1217.	7108.	5519.	
RESIDUAL	13.9	135.5	129.	4608.	4419.	4162.	24587.	20271.	
SUM CUTS		75.5	118.	2355.	2213.	1947.	11001.	8379.	
SUM MORTALITY				11.					
TOTAL AGE 42.									
BEFORE	17.3	211.3	129.	9126.	8761.	8545.	54885.	47699.	
CUT	14.1	43.8	41.	2004.	1912.	1851.	11681.	9749.	
RESIDUAL	18.6	167.5	89.	7122.	6848.	6694.	43203.	37950.	
SUM CUTS		119.3	159.	4359.	4126.	3798.	22682.	18128.	
SUM MORTALITY				45.					
TOTAL AGE 54.									
BEFORE	22.6	237.9	85.	12086.	11603.	11487.	78285.	71022.	
CUT	18.8	38.0	20.	2067.	1985.	1965.	13225.	12026.	
RESIDUAL	23.6	199.8	66.	10019.	9618.	9522.	65060.	58996.	
SUM CUTS		157.4	178.	6426.	6110.	5762.	35907.	30154.	
SUM MORTALITY				181.					

D F S I M VERSION 10
TABLE 12D. — PRECOMMERCIAL PLUS REPEATED COMMERCIAL THINNING AND FERTILIZATION
(Continued) MANAGED YIELD TABLE
FOR DOUGLAS-FIR
7.6 INCHES PLUS

SITE INDEX = 145. (50 YEARS BH)

	DBH INCHES	BASAL AREA PER ACRE SQ. FT.	TREES PER ACRE	CVTS	CV4	CV6	IV6	SV6
TOTAL AGE 67.								
BEFORE	27.5	262.5	64.	14311.	14218.	14076.	99237.	92636.
CUT	23.3	35.4	12.	2142.	2056.	2033.	14129.	136%.
RESIDUAL	28.3	227.2	52.	12669.	12162.	12044.	85108.	78940.
SUM CUTS		192.7	190.	8568.	8166.	7795.	50036.	43849.
SUM MORTALITY				404.				
TOTAL ME 80.								
BEFORE	32.0	283.2	51.	17033.	16352.	16188.	114128.	110703.
CUT	27.2	31.9	8.	2085.	2002.	1952.	13758.	13621.
RESIDUAL	32.8	251.3	43.	14948.	14350.	14237.	100370.	97083.
SUM CUTS		224.6	198.	10653.	10165.	9746.	63795.	57470.
SUM MORTALITY				668.				
TOTAL ME 94.								
BEFORE	36.8	306.9	42.	19211.	13443.	18258.	128721.	127433.
CUT	31.3	31.9	6.	2188.	2101.	2016.	14213.	14071.
RESIDUAL	37.7	275.1	36.	17023.	16342.	16242.	114503.	113363.
SUM CUTS		256.5	204.	12841.	12269.	11762.	78007.	71541.
SUM MORTALITY				1015.				
TOTAL AGE 100.								
HARVEST	39.4	298.9	35.	18768.	18017.	17837.	125750.	124492.
SUM CUTS		555.4	239.	31609.	30286.	29599.	203757.	196033.
SUM MORTALITY				1155.				

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Yield tables generated by the stand simulation program DFSIM (Douglas-Fir **SIM**ulator) are presented for a number of possible management regimes. These include a "normal" yield table; tables for stands planted or precommercially thinned to **300** and 400 trees per acre; tables for commercially thinned stands with and without prior commercial thinning; and tables illustrating the effect of fertilization with nitrogen. Guides are presented for number of trees to be planted or left after precommercial thinning and expected time of first commercial thinning.

These tables **can** be used as aids in choice of management regimes, guides to stocking control, and as a partial basis for estimating probable yields of future managed stands. Their limitations arise mainly from limitations of the basic data used in construction of DFSIM. Users are cautioned on some misinterpretations.

Keywords: Yield tables, simulation, growth models, fertilization (forest), thinning effects, Douglas-fir (coast), *Pseudotsuga menziesii*.

The **Forest Service** of the U.S. Department of Agriculture is dedicated to the principle of multiple use management of the Nation's forest resources for sustained yields of wood, water, forage, wildlife, and recreation. Through forestry research, cooperation with the States and private forest owners, and management of the National Forests and National Grasslands, it strives — as directed by Congress — to provide increasingly greater service to a growing Nation.

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Experiment Station
809 NE Sixth Avenue
Portland, Oregon **97232**