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FOREST GROWTH IN THE DOUGLAS FIR REGION

A Report on the Growth Phase of the Forest Survey
by

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C O N T E N T S

Figure 1. Map of Oregon and Washington showing the eleven forest units
of the Douglas fir region

Introduction

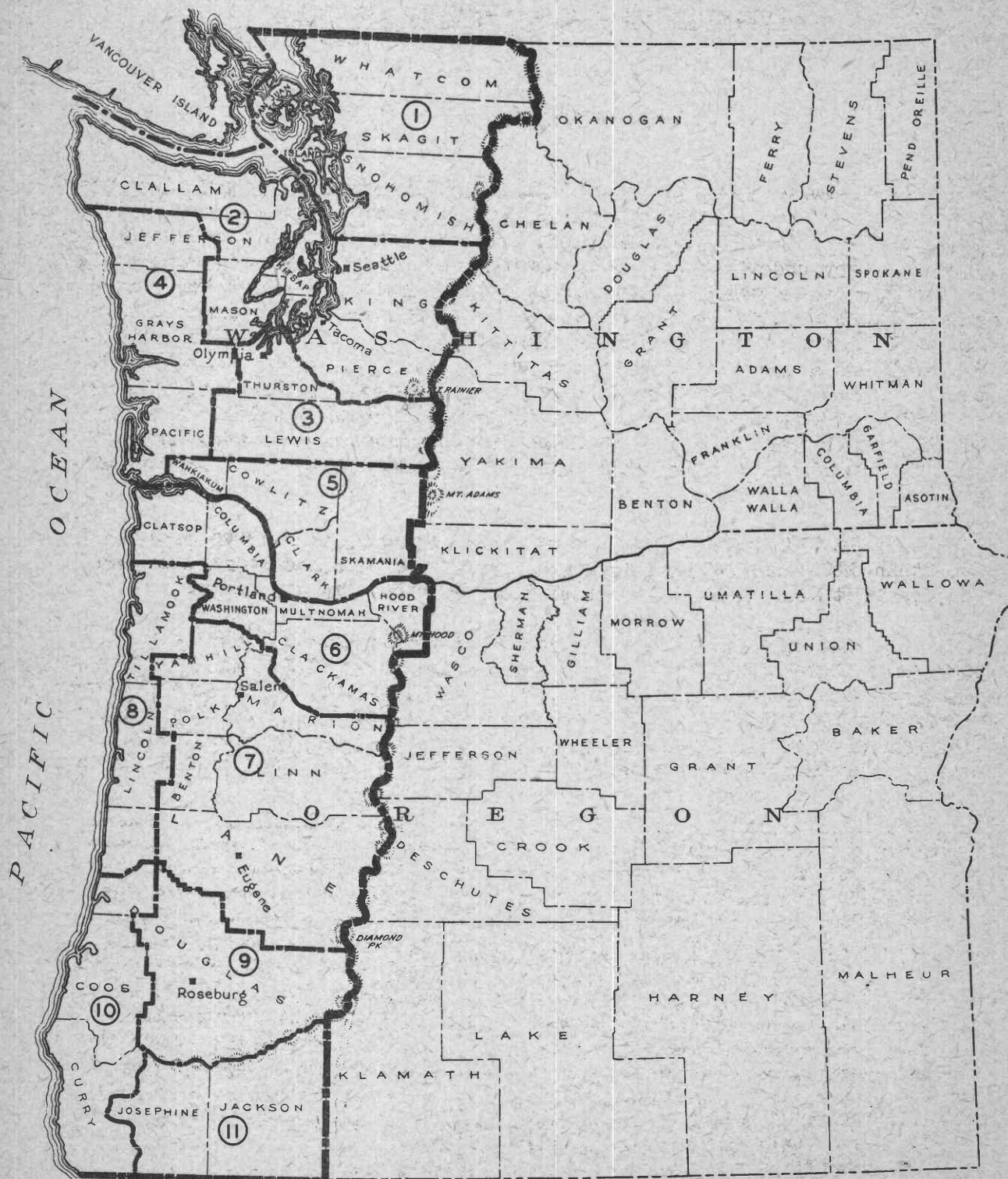
Kinds of growth calculations made

Results of growth study

- Table
1. Areas of generalized forest survey types, by ownership class
 2. Current annual forest growth in Columbia River unit, Oregon
 3. Current annual forest growth in Willamette River unit, Oregon
 4. Current annual forest growth in north Oregon Coast unit
 5. Current annual forest growth in Umpqua River unit, Oregon
 6. Current annual forest growth in south Oregon Coast unit
 7. Current annual forest growth in Rogue River unit, Oregon
 8. Current annual forest growth in north Puget Sound unit, Washington
 9. Current annual forest growth in central Puget Sound unit, Washington
 10. Current annual forest growth in south Puget Sound unit, Washington
 11. Current annual forest growth in Grays Harbor unit, Washington
 12. Current annual forest growth in Columbia River unit, Washington
 13. Summary of current annual coniferous growth
 14. Summary of current annual hardwood growth
 15. Rates used in calculating potential growth of coniferous timber
with approximate rotation ages
 16. Potential annual coniferous growth on commercial coniferous forest land
 17. Realizable mean annual coniferous growth
 18. Comparison of current annual, potential annual, and realizable mean
annual coniferous growth

Figure 2. Comparison of current and potential coniferous growth

FIG. I
 MAP OF OREGON & WASHINGTON SHOWING
 THE ELEVEN FOREST UNITS OF THE DOUGLAS FIR REGION
 PACIFIC NORTHWEST FOREST EXPERIMENT STATION FOREST SURVEY



- 1. NORTH PUGET SOUND UNIT
- 2. CENTRAL PUGET SOUND UNIT
- 3. SOUTH PUGET SOUND UNIT
- 4. GRAYS HARBOR UNIT

- 5. COLUMBIA RIVER WASHINGTON UNIT
- 6. COLUMBIA RIVER OREGON UNIT
- 7. WILLAMETTE RIVER UNIT

- 8. NORTH OREGON COAST UNIT
- 9. UMPQUA RIVER UNIT
- 10. SOUTH OREGON COAST UNIT
- 11. ROGUE RIVER UNIT

FOREST GROWTH IN THE DOUGLAS FIR REGION

Introduction

A study of forest growth in western Oregon and western Washington, the so-called Douglas fir region, was made in 1934-35 by the Pacific Northwest Forest Experiment Station. This is one phase of the Nation-wide forest survey undertaken by the Department of Agriculture under authority of the McSweeney-McNary Forest Research Act. Other phases of the survey are an inventory of forest-land areas and timber volumes, a study of forest depletion through cutting and through loss by fire, insect attack, and disease, and a study of present and prospective wood requirements. Material previously published on this regional survey^{1/} has included nothing regarding growth except certain data for the pulpwood species. Results of the growth phase are presented here for the region as a whole and for each of the 11 units (figure 1) into which it was divided for survey purposes.

In this study estimates of growth were restricted to stands not more than 160 years of age; it was assumed that in older stands, on the whole, growth is balanced by losses through mortality and decay.

Growth rates of forest stands vary with site quality, age, and stocking. Data on each of these factors were recorded for all the immature stands mapped in the field by the forest-survey staff. Site quality, the relative productive capacity of forest land as determined by climate, soil, topography, and other factors, was rated according to the classification devised for Douglas fir lands.^{2/} Age of stand was recorded by 10-year age

^{1/} PREVIOUS PUBLICATIONS ARE: (A) INVENTORY STATISTICS FOR EACH OF THE 38 COUNTIES IN THE REGION, INCLUDING FOREST AREAS BY TYPE AND SITE QUALITY AND SAWLOG VOLUMES IN BOARD FEET, LOG SCALE; (B) THE STATION'S FOREST RESEARCH NOTES NO. 13, A REGIONAL SUMMARY OF INVENTORY RESULTS; (C) FOREST RESEARCH NOTES NO. 17, GIVING VOLUMES FOR PULPWOOD TIMBER, AREA OCCUPIED BY EACH OF THE PRINCIPAL PULP-TIMBER TYPES, AND SOME DEPLETION AND GROWTH DATA FOR STANDS OF THESE TYPES; (D) VARIOUS ARTICLES IN TECHNICAL AND TRADE JOURNALS; (E) 1-INCH-TO-THE-MILE DETAILED COVER-TYPE MAPS FOR ALL COUNTIES AND NATIONAL FORESTS IN THE REGION; (F) $\frac{1}{4}$ -INCH-TO-THE-MILE LITHOGRAPHED TYPE MAPS FOR THE NORTHWEST AND SOUTHWEST QUARTERS OF OREGON. MAPS OF THE LATTER DESCRIPTION WILL SOON BE COMPLETED FOR THE WESTERN QUARTERS OF WASHINGTON ALSO. FOR EACH OF THE 11 FOREST SURVEY UNITS AND FOR THE REGION AS A WHOLE THERE IS NOW IN PREPARATION A DESCRIPTIVE AND ANALYTICAL REPORT ON THE FOREST RESOURCES AND THEIR DEPLETION AND GROWTH, WHICH WILL PRESUMABLY BE PUBLISHED WITHIN A FEW MONTHS.

^{2/} MCARDLE, R. E., AND MEYER, W. H. THE YIELD OF DOUGLAS FIR IN THE PACIFIC NORTHWEST. U. S. DEPT. AGR. TECH. BULL. 201. 1930.

class. Nearly all the growing stands of the Douglas fir region are even-aged. Each of the few uneven-aged stands encountered was classified according to its average age class, and its growth was computed on that basis. In respect to stocking, stands were classified as good (70-100 percent), medium (40-69 percent), or poor (10-39 percent). Areas less than 10 percent stocked were classified as nonstocked. In terms of normal stocking, i.e., the density of a stand that would completely utilize the productive capacity of the site, the first three of these classes averaged approximately as follows: good, 85 percent; medium, 55 percent; poor, 25 percent.

Kinds of Growth Calculation Made

In this study four kinds of calculation of volume growth were made: current annual, potential annual, realizable mean annual, and periodic annual. The growth rates used for the coniferous species were adapted from the normal growth rates for even-aged Douglas fir.^{3/} The growth rates used for the hardwood species were based on field sampling done as a part of the forest survey of Lewis County, Washington.^{4/} All of the growth calculations in this report are for even-aged stands such as are prevalent throughout the region following fire or cutting. The calculations assume that clear-cutting methods such as have prevailed in the past in the Douglas fir region will be continued. Should a selection system of logging be employed, it would be necessary to adjust the growth calculations accordingly.

1. Current annual growth is the annual increment of stands in their present condition. This is the only one of the four kinds of growth calculation that does not involve estimates of future changes in condition and extent of forests. An estimate of current annual growth should not be used as a basis for any estimate of volume at a future time; it cannot remain valid for more than a short period. It does not show the potential productivity of the land, and it does not show the growth realizable over long periods such as are involved in management plans for large forest areas.

Current annual growth calculations were made in cubic feet for all trees 3.6 inches or more in breast-height diameter, and in board feet, log scale, Scribner rule, for all trees 15.6 inches or more in breast-height diameter containing at least one 32-foot log with a 12-inch top diameter inside bark. In this report current annual growth is based on acreages of growing types as found in the year 1933.

2. Potential annual growth is the average annual growth that could be obtained on the whole of the region's commercial forest land through intensive forestry practice. In computing the potential annual

^{3/} MCARDLE, R. E., AND MEYER, W. H. THE YIELD OF DOUGLAS FIR IN THE PACIFIC NORTH-WEST. U. S. DEPT. AGR. TECH. BULL. 201. 1930.

^{4/} MEYER, W. H. STAND, HEIGHT AND GROWTH TABLES FOR THE FOREST TYPES IN LEWIS COUNTY, WASH. UNPUBLISHED MANUSCRIPT. 1935.

growth of this region all the commercial coniferous forest land in each site class was assumed to be occupied by immature stands, averaging 75 percent of normal stocking, among which all age classes up to rotation age are equally represented.

Potential annual growth was computed in cubic feet and in board feet for the same portions of the stand, respectively, as current annual growth, and also in board feet, log scale, Scribner rule, for all trees 11.6 inches or more in breast-height diameter containing at least one 16-foot log with an 8-inch top diameter inside bark. The last-mentioned utilization standard is much more intensive than that now in effect in the Douglas fir region. It was included on the assumption that in the future second-growth stands will be utilized more closely than at present.

3. Realizable mean annual growth is the least simple of the four kinds of growth calculation made in this study. Because it is designed to approximate the growth that will actually occur in the future, it is highly significant.

Realizable mean annual growth is (1) mean annual growth of existing stands from 1933 to 2032, or to dates earlier than 2032 for those stands that it is assumed will be depleted prior to that date, plus (2) mean annual growth on portions of areas now deforested or to be deforested that will presumably restock within the period 1933-52. These latter areas include existing recent cutovers (type 36), existing deforested burns (type 37), and areas that it is estimated will be cut over or deforested by fire or other causes within the period 1933-52; they do not include any of the lands cut over prior to 1920 that were still nonstocked in 1933 (type 35). These calculations were made for each decade of the 30-year period 1933-62. The acreage from which existing stands will be removed by either cutting, fire, or other causes was calculated according to rates of depletion estimated by the survey staff for individual timber types.

Item 1 (mean annual growth of existing growing stands), was calculated on the assumption, based on the extent and character of existing timber stands and existing rates of depletion, that growing timber types more than 20 inches in breast-height diameter in each survey unit would be depleted within 35 to 60 years, the period varying with the unit. For the area of these types that presumably will be depleted during a given decade of the period 1933-62, growth was figured from 1933 only to the middle of that decade. For the area of these types estimated to be depleted after 1962, growth during the three decades was figured at the average annual rate for the periods from 1933 to the various times when it is assumed the areas will be depleted.

For areas occupied in 1933 by growing timber 20 inches or less in breast-height diameter, average annual growth was ordinarily calculated for the period from 1933 to the time when the timber will be 100 years old. (There were several exceptions to this rule; an average life of more than 100 years was attributed to several of the stands of this type group.) It was assumed that the stands would be depleted in part during each decade,

and the average annual growth rates for their estimated period of life were applied to the portions estimated to remain during the first, second, and third decades, respectively.

In calculating item 2 (mean annual growth on portions of areas now deforested or to be deforested) it was assumed, on the basis of an examination in 1932-33 of large areas cut over from 1920 to 1923, inclusive, that 80 percent of the land deforested in any decade would restock to 55 percent of normal stocking during the following decade, and that the remaining 20 percent would remain deforested for the period covered by the calculations. For lands expected to restock during a given decade growth of the new stands was figured at the mean annual rate for the period from the middle of that decade to 2032, i.e., 95 years for the decade 1933-42, 85 years for the decade 1943-52, and 75 years for the decade 1953-62.

4. Periodic annual growth is average annual growth within a given interval--in this study, 10 years. Computations of future periodic annual growth were made and combined with assumed rates of future depletion to estimate net changes in inventories at 10-year intervals for the period 1933-62. Periodic annual growth is not discussed in this report, because to do so would involve presentation of much material on assumed future depletion and because calculations of periodic annual growth are valuable chiefly as a means of estimating future inventories. This subject belongs in the final regional report, where it will be discussed fully.

Results of Growth Study

Table 1 gives for the region as a whole and for each survey unit the total forest acreage and the acreages of five general type classes: second growth, old growth, deforested areas, noncommercial forest land, and hardwoods. Tables 2-12 show current annual growth for the 11 forest units, by counties. Figures are given separately for national-forest lands and all other lands. Average age, average site index, and average degree of stocking are shown for each of the coniferous growing types. Average proportionate representation of species is given for each growing type, in percentage of total volume. The average percentages shown for species in tables 2-12 are weighted and can be applied to total volume growth to determine the volume growth of individual species groups. Table 13 summarizes current annual coniferous growth by unit and by State; table 14 similarly summarizes current annual hardwood growth. Table 15 shows the rates used in calculating potential growth of coniferous timber, with approximate rotation ages assumed. Table 16 gives potential annual coniferous growth estimates for each county, unit, and State. This table classifies as coniferous forest land the potential coniferous forest land, in the north Oregon coast and south Oregon coast units, that is now occupied by hardwoods, which is classified in tables 1-12 as hardwood land. Realizable mean annual growth is shown in table 17, by unit and by State. It is not given by county because depletion cannot be forecast with sufficient

reliability for an area as small as a county. Table 18 summarizes current, potential, and realizable growth, giving totals in board feet and cubic feet.

Current Annual Growth

The immature coniferous stands of the Douglas fir region, which occupy a total area of 9,917,000 acres, are found to be putting on an annual increment of 886 million cubic feet or 2.3 billion board feet, log scale. In cubic feet, the annual increment of these stands equals 0.66 percent of the region's total coniferous timber stand; in board feet, 0.42 percent. The low ratio of increment to total timber volume is explained by the fact that old-growth timber types, in which no net growth is taking place, occupy 45 percent of the region's total commercial coniferous forest land, and the fact that extensive potentially productive areas are either nonstocked or understocked. Approximately 56 percent of the cubic-foot growth and 62 percent of the board-foot growth are taking place in western Oregon.

The low ratio of board-foot growth to cubic-foot growth of coniferous stands is due to the fact that a large part of the growth is in trees of less than saw-timber size, i.e., less than 15.6 inches in d.b.h. This ratio, expressing a comparison of rates of change in volume, should not be confused with the ratio between the total board-foot and cubic-foot volumes of existing stands. An example of differences in board-foot-cubic-foot growth ratio is offered by data for Whatcom and Snohomish Counties (table 8). In Whatcom County the ratio is approximately 5.5 to 1 for Douglas fir second growth 22 to 40 inches in d.b.h. and 0.2 to 1 for Douglas fir second growth 6 to 20 inches in d.b.h.; in Snohomish County it is 8.7 to 1 and 1.6 to 1, respectively, for these types. The differences can be traced directly to intercounty differences in average age of stands and average site quality for the two types.

The Willamette River unit, the coniferous second-growth area of which is larger than that of any of the 10 other units of the Douglas fir region and forms 17 percent of the regional total of coniferous second-growth lands, leads all other units in current annual coniferous growth, having 18.7 percent of the regional cubic-foot total and 18.3 percent of the regional board-foot total. The central Puget Sound, Columbia River Oregon, and Umpqua River units follow in that order. Lane County leads all the other counties in the region in cubic-foot coniferous growth, with 9.4 percent of the regional total, followed by Lewis, Douglas, and Linn Counties. In board-foot coniferous growth Douglas County leads, with 13.9 percent of the regional total, followed by Lane, Lewis, and Coos Counties.

In proportion of commercial coniferous forest land occupied by growing types the north Oregon coast unit leads, with 46.9 percent. The Columbia River Washington, Columbia River Oregon, and south Puget Sound units follow, with 46.5, 45.7, and 44.7 percent, respectively. In this respect the Grays Harbor and Rogue River units rank last. The Rogue River

unit has the largest percentage of forest area occupied by coniferous old growth, 65.2. Next in order in this respect are the Umpqua River and Grays Harbor units, with 57.6 percent and 55.0 percent, respectively.

Hardwood stands in the Douglas fir region, which occupy 1,118,000 acres of land, are making an average annual growth of 31 million cubic feet or 72 million board feet. Western Oregon exceeds western Washington in volume of hardwood growth, as in acreage of hardwood types.

Potential Annual Coniferous Growth

Lands in the region that are capable of producing commercial coniferous forests total about 26,134,000 acres. For these lands the potential annual timber growth totals 2,759 million cubic feet, the potential annual board-measure growth on trees 15.6 inches or more in d.b.h. totals 8,244 million feet, log scale, Scribner rule, and the potential annual board-measure growth on trees 11.6 inches or more in d.b.h. totals 12,575 million feet, log scale, Scribner rule.

Of the total potential annual cubic-foot growth, Oregon's portion is 54.6 percent and Washington's is 45.4 percent. In potential growth the Willamette River unit ranks first, followed by the central Puget Sound and Grays Harbor units.

Realizable Mean Annual Growth

If the present trends of depletion by cutting and by fire and other causes continue and if cutting and other depletion factors affect forest conditions in the future in the same manner as they have in the past, the realizable mean annual growth in the Douglas fir region for the decade that began with 1933 amounts to 733 million cubic feet or 3,306 million board feet. The expected conversion of additional areas to second-growth conditions increases the realizable mean annual growth for the decade 1943-52 to 953 million cubic feet or 3,869 million board feet. Further expected change increases the estimated annual growth for the decade 1953-62 to 1,060 million cubic feet or 4,066 million board feet. Improved forest management could further increase realizable mean annual growth considerably.

For the decade 1933-42 the realizable mean annual cubic growth in western Oregon is 51.6 percent of the regional total; in the decades 1943-52 and 1953-62, it is calculated, annual cubic growth in western Washington will make up 50.1 percent and 50.5 percent, respectively, of the regional total. In the first decade the Willamette River unit is expected to rank first, followed by the central Puget Sound and Columbia River Oregon units.

Discussion

The forest-survey estimates of current growth in the Douglas fir region, although conservative, exceed those previously published, particularly those in board measure. The previous estimates were based

on inadequate data as to the areas occupied by growing types, the degree of stocking of these areas, and their site quality.

Total current growth figures in either board feet or cubic feet for a county, unit, or State do not by themselves reveal its forest situation. For instance, in the Umpqua River unit about two-thirds of the current annual growth, because it is taking place in stands 22 to 40 inches in d.b.h., is likely to be very important commercially within the next 30 years, and about one-third, because it is taking place in stands 6 to 20 inches in d.b.h. and predominantly of species unsuitable for pulpwood, is unlikely to acquire commercial importance within that period. Thus the mere statement that the unit's total current annual board-foot growth is approximately 246 million feet omits an important distinction. A more complex example is afforded by a contrast between the north Oregon coast unit and the north Puget Sound and central Puget Sound units considered together. The Oregon unit, with only about one-fifth as much forest-land area as the two Washington units, has a greater current annual board-foot growth, but has little more than one-third as much current annual cubic-foot growth. The reason for the two Washington units' having so much more cubic-foot growth than the Oregon unit is their vastly greater area of second growth below sawlog size. The greater board-foot growth of the Oregon unit is explained by the fact that in this unit second growth 22 to 40 inches in d.b.h. occupies about 400,000 acres of land, mostly of high site quality, whereas in the two Washington units such timber occupies only 314,000 acres, not of high site quality. In using the growth statistics, therefore, particular attention should be paid to the data in table 1 on area of generalized forest types by county and to the detailed data on size, age, and area of growing timber given in tables 2 to 12, inclusive. In using those statistics it is desirable, also, that reference be made to the survey type maps, both State and county.

The difference between current annual growth and realizable mean annual growth in cubic feet is relatively small: for the first decade realizable mean annual cubic growth is 83 percent of current annual cubic growth; for the second and third decades, respectively, realizable growth is 107 and 120 percent of current growth. In board feet, however, realizable mean annual growth for the first decade is more than 143 percent of current annual growth, and realizable growth for the second and third decades, respectively, is 167 and 176 percent of current growth.

The excess of current annual cubic growth for 1933 over realizable mean annual cubic growth for 1933-42 is due to the fact that whereas the annual growth rates used in calculating current growth are averages for the current decade only, those used in calculating realizable growth are averages representing the estimated remaining life of the stands existing in 1933 and a large part of the estimated life of new stands generated within the decade 1933-42. During the greater part of the period represented by the latter average the stands covered by the calculations for 1933-42 will of course grow less and less rapidly, as they approach maturity. Current annual cubic growth for 1933 is exceeded by realizable mean annual cubic growth for the decades 1943-52 and 1953-62 because of

the increases in area of immature stands expected to take place in these decades. The fact that current annual board-foot growth for 1933 is exceeded by realizable mean annual growth in board feet for each of the three decades is due not only to the expected increase in acreage of immature stands but also to the fact that in the realizable mean annual growth calculations board-foot growth was assigned to some immature stands in which no board-foot growth occurred in 1933.

In cubic feet, current annual growth is but 32 percent of potential annual growth; in board feet, it is but 28 percent of potential annual growth.

Tables 16 and 17 show potential annual and realizable mean annual board-foot growth not only according to a utilization standard approximating that now in effect in the Douglas fir region but according to a more intensive standard. It is obvious that if the more intensive standard were adopted about 50 percent more material could be obtained from growing stands. The reductions in rotation age, or approximate age of maximum mean annual board-measure growth, that would be effected by this change are indicated in table 15.

Survey data show that total annual depletion of trees of sawlog size for the decade preceding 1933 averaged about 8.3 billion board feet, of which 7.9 billion feet was due to cutting. The current annual growth of 2.3 billion board feet is therefore about 28 percent of the total annual depletion, and about 29 percent of the annual cutting depletion, of trees of sawlog size. Some such ratio of growth to cut is to be expected in a region with large areas of old nongrowing timber. Increased growth will be obtained as more areas are cut over, if the cut-over areas are adequately protected. The realizable mean annual growth of 3.3 billion board feet for the decade 1933-42 is about 40 percent of the average annual depletion from all causes for the decade preceding 1933; the realizable mean annual growth of 4.1 billion board feet for the decade 1953-62 is about 50 percent of that depletion. The potential annual growth calculated for the region, 8.2 billion board feet, is practically the same as the average annual depletion of sawlog trees from all causes for the decade preceding 1933. That is to say, in the Douglas fir region an annual drain on the forests such as that of the decade preceding 1933 could be equaled by their annual growth if the old-growth stands were replaced with growing stands, the lands now deforested were regenerated, and the stocking of the existing second-growth areas were improved.

FOREST GROWTH IN THE DOUGLAS FIR REGION
FROM GROWTH PHASE OF FOREST SURVEY

TABLE 1.—AREAS OF GENERALIZED FOREST-SURVEY TYPES, BY OWNERSHIP CLASS

UNIT AND COUNTY		CONIFEROUS GROWING TYPES			CONIFEROUS NONGROWING TYPES			NONWOODED FOREST LAND			NONCOMMERCIAL FOREST TYPES			HARDWOOD TYPES			ALL TYPES				
		NATIONAL : ACRES	OTHER : ACRES	ALL : ACRES	NATIONAL : ACRES	OTHER : ACRES	ALL : ACRES	NATIONAL : ACRES	OTHER : ACRES	ALL : ACRES	NATIONAL : ACRES	OTHER : ACRES	ALL : ACRES	NATIONAL : ACRES	OTHER : ACRES	ALL : ACRES	NATIONAL : ACRES	OTHER : ACRES	ALL : ACRES		
COLUMBIA RIVER	CLATSOP			170,472	170,472	170,472	152,538	152,538	152,538	145,355	145,355	145,355	145,355	145,355	145,355	145,355	145,355	145,355	145,355	145,355	
	COLUMBIA			120,585	120,585	120,585	38,490	38,490	38,490	174,045	174,045	174,045	174,045	174,045	174,045	174,045	174,045	174,045	174,045	174,045	
	WASHINGTON			138,010	138,010	138,010	41,755	41,755	41,755	87,775	87,775	87,775	87,775	87,775	87,775	87,775	87,775	87,775	87,775	87,775	
	MULTNOMAH			23,553	55,975	79,528	35,641	8,920	44,561	231	13,025	13,256	2,739	2,739	2,739	2,739	2,739	2,739	2,739	2,739	
	HOOD RIVER			80,436	57,926	148,362	81,308	17,097	98,405	6,074	14,475	21,400	705	22,105	705	22,105	705	22,105	705	22,105	
	CLATSOP			160,907	269,755	430,662	321,315	72,030	393,345	23,962	63,960	87,922	25,659	140	25,799	14,460	14,460	531,843	420,345	952,188	
	TOTAL			264,896	822,723	1,087,619	438,264	330,930	769,094	32,594	460,234	522,828	49,818	1,360	51,198	93	65,623	65,716	785,665	1,710,730	2,496,405
	WILLAMETTE RIVER	YAMHILL			17,304	154,187	171,491	181	14,423	14,604	1,266	17,156	18,424	211	1,538	1,769	23,396	49,794	73,190	61,969	586,802
		POLK			260	106,657	106,917	3,200	76,640	79,840	49,326	49,326	49,326	49,326	49,326	49,326	49,326	49,326	49,326	49,326	49,326
		MARION			70,024	130,994	201,018	114,356	34,168	148,524	3,908	27,914	31,822	15,035	15,035	15,035	15,035	15,035	15,035	15,035	15,035
BENTON			440	120,750	121,190	1,595	54,100	55,695	30	44,585	44,615	44,615	44,615	44,615	44,615	44,615	44,615	44,615	44,615		
LINN			116,625	230,853	347,478	245,646	286,622	532,267	9,434	39,815	49,249	60,284	1,109	61,393	10	24,008	24,018	431,998	582,407		
TOTAL (EAST PART)			370,301	365,279	735,580	623,307	527,932	1,151,239	25,974	173,574	199,548	96,400	1,007	97,407	1,053	31,412	32,465	1,117,035	1,099,204	2,216,239	
TOTAL			574,954	1,108,720	1,683,674	988,264	993,985	1,982,169	40,614	352,370	392,984	171,719	2,116	173,835	6,481	114,726	121,207	1,782,032	2,571,817	4,353,869	
NORTH OREGON COAST		TILLAMOOK			26,032	120,012	146,044	7,907	134,119	142,026	4,423	281,319	285,742	211	1,538	1,769	23,396	49,794	73,190	61,969	586,802
		LINCOLN			91,633	147,842	239,475	5,549	135,171	140,720	4,204	75,679	79,883	4,661	4,661	4,661	24,301	87,463	111,793	125,687	450,836
		TOTAL (WEST PART)			155,466	72,611	228,077	11,733	22,254	33,987	4,517	7,671	12,188	959	6,244	7,203	20,647	20,742	41,389	193,322	129,522
	TOTAL			273,131	340,465	613,596	25,189	291,544	316,733	13,144	364,669	377,813	1,170	12,463	13,633	68,344	159,019	122,636	380,978	1,167,160	1,548,138
	DOUGLAS (EAST PART)			155,355	766,235	921,590	647,382	744,847	1,392,229	30,322	69,843	100,165	84,176	2,845	87,021	1,115	76,003	77,118	918,350	1,659,773	2,578,123
	TOTAL			155,355	766,235	921,590	647,382	744,847	1,392,229	30,322	69,843	100,165	84,176	2,845	87,021	1,115	76,003	77,118	918,350	1,659,773	2,578,123
	SOUTH OREGON COAST	DOUGLAS (WEST PART)			26,441	116,894	143,335	19,085	79,854	98,939	2,147	16,427	18,574	697	1,122	1,819	6,057	4,433	10,490	54,427	218,730
		COOS			9,775	462,330	462,105	44,880	253,605	298,485	3,380	97,995	101,375	3,191	10,722	13,913	50	22,995	23,045	61,276	837,647
		CURRY			31,889	128,412	160,301	273,999	446,491	720,490	51,229	101,229	195,701	81,742	8,023	89,765	60,322	25,627	85,949	592,424	385,783
		TOTAL			68,105	697,636	765,741	337,964	505,951	843,915	149,999	165,651	315,650	85,630	19,867	105,407	66,429	53,055	119,464	708,127	1,442,160
JOSEPHINE			8,342	138,108	146,450	245,209	355,970	601,179	82,041	68,043	150,084	68,610	8,136	76,746	5,219	10,920	16,139	409,421	581,177		
JACKSON			52,559	250,974	303,548	268,481	571,398	839,879	51,864	116,202	169,066	6,231	5,895	12,126	1,240	134,128	135,368	380,385	1,078,597		
TOTAL			60,911	389,082	449,993	513,690	927,368	1,441,058	133,905	184,245	319,150	74,841	14,031	88,872	6,459	145,046	151,507	789,806	1,659,774	2,449,590	
WESTERN OREGON TOTAL			1,397,352	4,124,861	5,522,213	2,950,773	3,794,425	6,745,198	400,578	1,627,012	2,027,590	467,354	52,702	520,056	149,921	612,474	761,395	5,364,978	10,211,474	15,576,452	
WESTERN WASHINGTON																					
NORTH PUGET SOUND		WHATCOM			44,905	149,772	194,677	214,527	93,532	308,059	59,688	38,850	98,538	361,752	5,151	366,903	2,261	42,373	44,634	683,133	329,678
	SKAGIT			39,529	171,364	210,893	179,591	167,648	347,239	6,819	106,426	113,245	164,469	12,359	176,828	322	34,427	34,749	390,730	492,224	
	ISLHOMISH			52,558	196,207	248,765	270,159	134,173	404,332	7,949	205,550	213,499	126,974	18,225	145,229	69	47,855	47,924	457,709	602,040	
	ISLAND			78,280	78,280	78,280	2,250	2,250	3,630	3,630	3,630	3,630	3,630	3,630	3,630	3,630	3,630	3,630	3,630	3,630	
	SAN JUAN			54,020	54,020	54,020	235	235	485	485	485	485	485	485	485	485	485	485	485	485	
	TOTAL			136,992	649,643	786,635	664,277	397,938	1,062,115	74,456	354,941	429,397	653,195	60,140	713,335	2,652	131,600	134,232	1,531,572	1,594,182	3,125,734
	CLALLAM			107,231	192,342	299,573	227,701	309,381	537,082	15,384	86,412	101,796	80,086	955	90,081	204	9,003	9,207	439,606	598,133	
	JEFFERSON (EAST PART)			17,082	97,130	114,212	110,280	16,567	26,510	22,949	46,061	69,012	93,412	40	93,412	63	2,073	2,136	243,786	161,831	
	KITAP			118,295	118,295	118,295	24,510	24,510	49,907	49,907	49,907	49,907	49,907	49,907	49,907	49,907	49,907	49,907	49,907	49,907	
	MAISON			10,189	183,043	193,232	104,774	195,568	10,654	136,831	147,485	28,022	3,265	31,287	96	10,469	153,735	424,336	578,071	424,336	
KING			34,173	359,209	393,382	95,552	229,755	325,317	9,408	215,599	225,007	47,912	68,159	116,071	40	36,335	36,375	187,095	909,057		
PIERCE			22,927	270,599	293,526	76,521	230,078	230,599	4,482	15,187	155,669	20,445	75,720	94,165	28,119	28,119	124,575	783,703	866,078		
TOTAL			191,602	1,220,618	1,412,220	614,838	891,085	1,505,923	62,877	685,997	746,974	278,877	146,179	425,056	403	104,055	104,468	1,489,597	3,047,934	4,196,531	
SOUTH PUGET SOUND	THURSTON			170	145,644	145,814	130	44,266	44,396	25	136,251	136,276	41,717	380	380	27,463	27,463	325	354,004	354,329	
	LEWIS			204,793	391,488	596,281	168,158	367,703	535,861	8,259	195,032	203,291	41,717	8,138	49,875	8	8,267	8,267	422,927	970,648	
	TOTAL			204,963	537,132	742,095	168,288	411,969	580,257	8,284	331,283	339,467	41,717	8,538	50,255	35,730	35,730	423,232	1,324,652	1,747,904	
	JEFFERSON (WEST PART)			6,258	27,930	34,188	230,090	266,866	498,956	75	75	75	63,926	1,6							

AREAS SHOWN IN THIS TABLE INCLUDE ONLY THOSE ON WHICH THE STANDS ARE 160 YEARS OR LESS IN AGE. 2/ "SITE INDEX" IS AVERAGE HEIGHT OF DOMINANT AND CODOMINANT TREES AT 100 YEARS. 3/ GROWTH IN CUBIC FEET IS SHOWN FOR ALL TREES 3.6 INCHES OR MORE IN D.B.H. GROWTH IN BOARD FEET IS SHOWN FOR ALL TREES 15.6 INCHES OR MORE IN D.B.H. ESTIMATED IN 32-FOOT LOGS TO 12-INCH TOP, SCRIPPER RULE.

FOREST GROWTH IN THE DOUGLAS FIR REGION
FROM GROWTH PHASE OF FOREST SURVEY

TABLE 3.--CURRENT ANNUAL FOREST GROWTH IN WILLAMETTE RIVER UNIT, OREGON

COUNTY AND TYPE	LANDS OTHER THAN NATIONAL FORESTS														NATIONAL FORESTS														TOTAL	
	AVERAGE				CURRENT ANNUAL VOLUME INCREMENT ^{1/2}				AVERAGE				CURRENT ANNUAL VOLUME INCREMENT ^{2/3}				AVERAGE		CURRENT ANNUAL VOLUME INCREMENT											
	STAND CONDITIONS	AGE	STOCK-ING	AVERAGE	STOCK-ING	AREA ^{1/2}	PERCENT	STAND CONDITIONS	AGE	STOCK-ING	AVERAGE	STOCK-ING	AREA ^{1/2}	PERCENT	STAND CONDITIONS	AGE	STOCK-ING	AVERAGE	STOCK-ING	AREA ^{1/2}	PERCENT									
	ACRES	FEET	FEET	FEET	FEET	FEET	FEET	ACRES	FEET	FEET	FEET	FEET	FEET	FEET	ACRES	FEET	FEET	FEET	FEET	FEET	FEET									
YAMHILL																														
DOUGLAS FIR 22"-40" D.B.H.	52,580	80	54	153	3,477	26,556	95	3	2	1,570	80	54	175	122	989	84	15	54,150	3,599	27,545										
DOUGLAS FIR 6"-20" D.B.H.	66,276	49	70	162	9,184	22,057	97	2	1	5,893	40	52	171	713	1,361	89	10	72,169	9,897	23,418										
DOUGLAS FIR LESS THAN 6" D.B.H.	35,146	17	49	147	2,904	7	30	69	1	9,841	11	75	171	776		90	10	44,987	3,680											
FIR-MOUNTAIN HEMLOCK LESS THAN 16" D.B.H.	60	20	55	155	7	2	25	70	5									60	7											
WHITE FIR 20" OR LESS D.B.H.	125	10	25	155	2		25	70	5									125	2											
TOTAL OR AVERAGE FOR CONIFEROUS TYPES	154,187				15,574	48,613	97	2	1	17,304				1,611	2,330	89	10	171,491	17,185	50,963										
HARDWOOD TYPE	28,493				644	811				5,288				106	1,110			33,781	750	1,921										
COUNTY TOTAL	182,680				16,218	49,424				22,592				1,717	3,460			205,272	17,935	52,884										
POLK																														
DOUGLAS FIR 22"-40" D.B.H.	47,279	78	74	144	4,308	29,442	93	7	1									47,279	4,308	29,442										
DOUGLAS FIR 6"-20" D.B.H.	31,731	48	74	147	4,367	8,639	90	8	2									31,731	4,367	8,639										
DOUGLAS FIR LESS THAN 6" D.B.H.	27,257	10	76	146	1,418	20	10	85	5									27,257	1,418	20										
WESTERN HEMLOCK 6"-20" D.B.H.	390	42	82	142	603	38,101	87	12	1	260	42	82	140	40		7	89	106,917	10,736	38,101										
TOTAL OR AVERAGE FOR CONIFEROUS TYPES	106,657				10,696	38,101	87	12	1	260				40		7	89	106,917	10,736	38,101										
HARDWOOD TYPE	13,624				300	60				13,624				300		60		13,624	300	60										
COUNTY TOTAL	120,281				10,996	38,161				260				40				120,541	11,036	38,161										
MARION																														
DOUGLAS FIR 22"-40" D.B.H.	56,654	83	81	114	5,074	37,907	92	7	1	8,844	140	76	138	298	3,099	74	25	65,498	5,372	41,006										
DOUGLAS FIR 6"-20" D.B.H.	59,730	53	70	141	7,057	14,871	95	4	1	18,404	48	82	135	2,427	3,095	79	20	78,224	9,484	17,966										
DOUGLAS FIR LESS THAN 6" D.B.H.	13,979	15	72	142	1,288		95	4	1	20,978	19	84	134	2,974		15	1	34,957	4,262											
WESTERN HEMLOCK 6"-20" D.B.H.	534	88	55	142	23	189	15	25	60	1,186	92	85	88	44	90	20	79	534	23	189										
WESTERN RED CEDAR 0"-24" D.B.H.										13,829	133	77	131	534	5,364	15	94	13,829	534	5,364										
FIR-MOUNTAIN HEMLOCK MORE THAN 16" D.B.H.	97	60	55	142	8	35	20	70	10	6,693	48	56	106	332	483	19	80	6,693	332	483										
WHITE FIR 20" OR LESS D.B.H.	130,994				13,450	53,002	94	5	1	70,024				6,609	12,131	72	27	201,018	20,059	65,133										
TOTAL OR AVERAGE FOR CONIFEROUS TYPES	145,923				13,771	53,673				70,024				6,609	12,131			145,923	20,380	65,804										
HARDWOOD TYPE	14,929				321	671				14,929				321	671			14,929	321	671										
COUNTY TOTAL	145,923				13,771	53,673				70,024				6,609	12,131			145,923	20,380	65,804										
BENTON																														
DOUGLAS FIR 22"-40" D.B.H.	52,320	70	47	140	3,336	18,137	97	2	1	280	70	47	140	18	101	97	2	52,600	3,354	18,238										
DOUGLAS FIR 6"-20" D.B.H.	45,670	34	56	140	4,917	966	98	1	1	160	34	56	140	18		98	1	45,800	4,935	966										
DOUGLAS FIR LESS THAN 6" D.B.H.	22,760	14	56	140	1,474		99	1	1	22,760								22,760	1,474											
TOTAL OR AVERAGE FOR CONIFEROUS TYPES	120,750				9,727	19,103	98	1	1	440				36	101	98	1	121,190	9,763	19,204										
HARDWOOD TYPE	2,260				58	128				130				3	27			2,390	61	135										
COUNTY TOTAL	123,010				9,785	19,231				570				39	128			123,580	9,824	19,339										
LANE																														
DOUGLAS FIR 22"-40" D.B.H.	94,743	86	58	156	5,419	42,465	94	5	1	40,295	147	80	138	1,304	14,199	80	19	135,038	6,723	56,664										
DOUGLAS FIR 6"-20" D.B.H.	89,912	32	67	142	12,038	491	95	4	1	38,188	44	84	139	5,934	3,595	82	17	128,100	17,872	4,086										
DOUGLAS FIR LESS THAN 6" D.B.H.	32,285	16	57	140	2,415		96	4	1	14,939	20	85	112	2,269		85	14	47,224	4,664											
WESTERN HEMLOCK 6"-20" D.B.H.	6,710	32	64	158	840	99	30	68	2	248	20	85	140	37		30	69	6,958	877	99										
WESTERN HEMLOCK LESS THAN 6" D.B.H.	4,685	22	81	156	650		30	69	1	90	20	85	140	14		25	74	4,775	664											
FIR-MOUNTAIN HEMLOCK MORE THAN 16" D.B.H.	75	14	85	140	7		35	10	55	339	115	60	140	13	133	18	80	339	13	133										
FIR-MOUNTAIN HEMLOCK LESS THAN 16" D.B.H.	2,443	22	74	140	298		28	71	1	22,526	42	75	123	16,649	685	30	69	24,969	16,947	685										
TOTAL OR AVERAGE FOR CONIFEROUS TYPES	230,853				21,667	43,035	89	10	1	116,625				26,120	18,612	49	50	347,478	47,787	61,667										
HARDWOOD TYPE	24,008				646	1,242				10					2			24,018	646	1,244										
COUNTY TOTAL	254,861				22,313	44,297				116,635				26,120	18,614			371,496	48,433	62,911										
LANE (EASTERN PART)																														
DOUGLAS FIR 22"-40" D.B.H.	106,603	83	62	145	7,577	55,791	97	2	1	153,672	120	79	138	7,218	68,786	82	17	260,278	14,795	124,577										
DOUGLAS FIR 6"-20" D.B.H.	206,544	44	63	143	24,652	35,339	96	2	2	146,082	64	74	118	12,416	25,602	84	15	352,628	37,068	60,941										
DOUGLAS FIR LESS THAN 6" D.B.H.	50,448	11	55	144	1,897		98	1	1	54,942	18	67	134	5,466		86	14	105,390	7,363											
WESTERN HEMLOCK 6"-20" D.B.H.	200	39	55	150	22	26	35	64	1									200	22	26										
WESTERN HEMLOCK LESS THAN 6" D.B.H.	75	10	55	149	3		40	59	1									75	3											
WESTERN RED CEDAR 0"-24" D.B.H.	255	48	55	146	26		35	5	60	404	25	80	152	85		30	10	749	111	60										
PONDEROSA PINE 12"-22" D.B.H.	237	21	42	128	17	5	18	6	76	80	40	85	80	5		5	85	215	19	7										
PONDEROSA PINE LESS THAN 12" D.B.H.	215	34	55	137	19	7	8	7	85	4,464	124	70	94	93	552	29	70	4,464	93	552										
FIR-MOUNTAIN HEMLOCK MORE THAN 16" D.B.H.																														

1/ AREAS SHOWN IN THIS TABLE INCLUDE ONLY THOSE ON WHICH THE STANDS ARE 160 YEARS OR LESS IN AGE. 2/ "SITE INDEX" IS AVERAGE HEIGHT OF DOMINANT AND CODOMINANT TREES AT 100 YEARS. 3/ GROWTH IN CUBIC FEET IS SHOWN FOR ALL TREES 3.6 INCHES OR MORE IN D.B.H. GROWTH IN BOARD FEET IS SHOWN FOR ALL TREES 15.6 INCHES OR MORE IN D.B.H. ESTIMATED IN 32-FOOT LOGS TO 12-INCH TOP, SCRIBNER RULE.

FOREST GROWTH IN THE DOUGLAS FIR REGION
FROM GROWTH PHASE OF FOREST SURVEY

TABLE 4.—CURRENT ANNUAL FOREST GROWTH IN NORTH OREGON COAST UNIT

COUNTY AND TYPE	LANDS OTHER THAN NATIONAL FORESTS										NATIONAL FORESTS										TOTAL		
	: AVERAGE :				: CURRENT ANNUAL VOLUME INCREMENT ^{3/} :						: AVERAGE :				: CURRENT ANNUAL VOLUME INCREMENT ^{3/} :						: AREA ^{1/} :	: CURRENT ANNUAL VOLUME INCREMENT :	:
	: STAND CONDITIONS :				: DISTRIBUTION BY SPECIES :						: STAND CONDITIONS :				: DISTRIBUTION BY SPECIES :								
	: AREA ^{1/} :	: AGE :	: STOCK-ING :	: SITE INDEX ^{2/} :	: TOTAL :	: BALSAM :					: TOTAL :	: BALSAM :											
						: DOUGLAS :	: FIRM-LOCKS, AND OTHER :	: FIR AND CONIFERS :	: SPRUCES :	: DOUGLAS :		: FIRM-LOCKS, AND OTHER :	: FIR AND CONIFERS :	: SPRUCES :									
ACRES	YEARS	PERCENT		M CUBIC FEET	M BOARD FEET	PERCENT	PERCENT	PERCENT		ACRES	YEARS	PERCENT		M CUBIC FEET	M BOARD FEET	PERCENT	PERCENT	PERCENT		ACRES	M CUBIC FEET	M BOARD FEET	
TILLAMOOK																							
DOUGLAS FIR 22"-40" D.B.H.	17,046	58	54	155	1,647	7,950	85	14	1	6,074	58	54	164	620	3,280	92	7	1		23,120	2,267	11,230	
DOUGLAS FIR 6"-20" D.B.H.	36,918	36	57	157	4,649	3,207	83	16	1	7,202	36	57	162	943	720	94	5	1		44,120	5,592	3,927	
DOUGLAS FIR LESS THAN 6" D.B.H.	7,069	14	53	155	453		80	19		6,067	14	53	161	528		94	5	1		13,136	981		
SITKA SPRUCE MORE THAN 24" D.B.H.	4,485	80	70	140	359	2,512	28	70	2	2,615	86	70	170	238	1,883	34	65	1		7,100	597	4,395	
SITKA SPRUCE 6"-24" D.B.H.	9,358	41	66	145	1,211	2,224	24	75	1	350	41	66	164	51	88	24	75	1		9,708	1,262	2,312	
SITKA SPRUCE LESS THAN 6" D.B.H.	2,860	19	47	137	215		19	80	1	530	19	47	169	54		19	80	1		3,390	269		
WESTERN HEMLOCK MORE THAN 20" D.B.H.	24,104	60	75	142	2,918	12,140	34	65	1	2,640	60	75	156	348	1,874	38	60	2		26,744	3,266	14,014	
WESTERN HEMLOCK 6"-20" D.B.H.	13,294	30	72	158	2,118	1,155	21	78	1	300	30	72	151	47		21	78	1		13,594	2,165	1,155	
WESTERN HEMLOCK LESS THAN 6" D.B.H.	4,878	10	56	150	184		18	81	1	254	10	56	152	11		18	81	1		5,132	195		
TOTAL OR AVERAGE FOR CONIFEROUS TYPES	120,012				13,754	29,188	55	44	1	26,032				2,840	7,845	78	21	1		146,044	16,594	37,033	
HARDWOOD TYPE	49,794				1,395	9,143				23,396				546	4,504					73,190	1,941	13,647	
COUNTY TOTAL	169,806				15,149	38,331				49,428				3,386	12,349					219,234	18,535	50,680	
LINCOLN																							
DOUGLAS FIR 22"-40" D.B.H.	83,957	64	70	165	10,489	67,235	82	17	1	81,738	63	47	170	7,011	48,917	85	13	2		165,695	17,500	116,152	
DOUGLAS FIR 6"-20" D.B.H.	45,981	37	58	156	5,727	5,604	86	13	1	6,604	43	41	170	660	1,360	87	12	1		52,585	6,387	6,964	
DOUGLAS FIR LESS THAN 6" D.B.H.	5,343	10	54	157	204		90	9	1	1,045	10	51	170	41		90	9	1		6,388	245		
SITKA SPRUCE MORE THAN 24" D.B.H.										190	80	70	171	19	152	34	65	1		190	19	152	
SITKA SPRUCE 6"-24" D.B.H.	4,279	40	73	141	590	516	11	88	1											4,279	590	516	
SITKA SPRUCE LESS THAN 6" D.B.H.	2,120	19	61	144	228		19	80	1											2,120	228		
WESTERN HEMLOCK MORE THAN 20" D.B.H.	1,271	76	73	159	131	945	24	75	1	1,926	72	68	168	208	1,599	29	70	1		3,197	339	2,544	
WESTERN HEMLOCK 6"-20" D.B.H.	4,666	41	80	151	770	1,021	15	84	1	130	45	76	150	20	30	20	79	1		4,826	790	1,051	
WESTERN HEMLOCK LESS THAN 6" D.B.H.	115	10	55	149	4		27	72	1											115	4		
WESTERN RED CEDAR 0"-24" D.B.H.	80	10	55	129	2		15	5	80											80	2		
TOTAL OR AVERAGE FOR CONIFEROUS TYPES	147,842				18,145	75,321	77	22	1	91,633				7,959	52,058	83	15	2		239,475	26,104	127,379	
HARDWOOD TYPE	87,483				2,207	16,528				24,301				486	5,103					111,784	2,693	21,631	
COUNTY TOTAL	235,325				20,352	91,849				115,934				8,445	57,161					351,259	28,797	149,010	
LANE (WESTERN PART)																							
DOUGLAS FIR 22"-40" D.B.H.	46,632	77	63	140	3,542	23,366	87	12	1	123,644	77	63	165	11,252	86,551	94	5	1		170,276	14,794	109,917	
DOUGLAS FIR 6"-20" D.B.H.	20,594	44	52	147	2,038	2,490	88	11	1	21,159	41	69	162	3,285	3,923	95	4	1		41,753	5,323	6,413	
DOUGLAS FIR LESS THAN 6" D.B.H.	2,727	10	70	157	121		89	10	1	5,947	12	74	159	413		96	3	1		8,674	534		
SITKA SPRUCE MORE THAN 24" D.B.H.	169	80	55	140	11	91	10	88	2	427	80	55	154	30	260	10	88	2		596	41	351	
SITKA SPRUCE 6"-24" D.B.H.	2,072	50	39	147	149	372	9	99	1	1,844	42	55	153	210	227	29	70	1		3,916	359	599	
SITKA SPRUCE LESS THAN 6" D.B.H.	246	15	30	140	11		14	85	1	351	30	55	147	41		14	85	1		597	52		
WESTERN HEMLOCK MORE THAN 20" D.B.H.										1,912	70	70	156	201	1,358	26	72	2		1,912	201	1,358	
WESTERN HEMLOCK 6"-20" D.B.H.	171	40	61	133	18		13	86	1	182	32	55	160	23	9	13	86	1		353	41	9	
TOTAL OR AVERAGE FOR CONIFEROUS TYPES	72,611				5,890	26,319	85	14	1	155,466				15,455	92,328	92	7	1		228,077	21,345	118,647	
HARDWOOD TYPE	20,742				602	939				20,647				413	4,336					41,389	1,015	5,275	
COUNTY TOTAL	93,353				6,492	27,258				176,113				15,868	96,664					269,466	22,360	123,922	
GRAND TOTALS																							
CONIFEROUS TYPES	340,465				37,789	130,828	70	29	1	273,131				26,254	152,231	88	11	1		613,596	64,043	283,059	
HARDWOOD TYPE	158,019				4,204	26,610				68,344				1,445	13,943					226,363	5,649	40,553	
ALL TYPES	498,484				41,993	157,438				341,475				27,699	166,174					839,959	69,692	323,612	

^{1/} AREAS SHOWN IN THIS TABLE INCLUDE ONLY THOSE ON WHICH THE STANDS ARE 160 YEARS OR LESS IN AGE. ^{2/} "SITE INDEX" IS AVERAGE HEIGHT OF DOMINANT AND CODOMINANT TREES AT 100 YEARS. ^{3/} GROWTH IN CUBIC FEET IS SHOWN FOR ALL TREES 3.6 INCHES OR MORE IN D.B.H. GROWTH IN BOARD FEET IS SHOWN FOR ALL TREES 15.6 INCHES OR MORE IN D.B.H. ESTIMATED IN 32-FOOT LOGS TO 12-INCH TOP, SCRIBNER RULE.

FOREST GROWTH IN THE DOUGLAS FIR REGION
FROM GROWTH PHASE OF FOREST SURVEY

TABLE 5.—CURRENT ANNUAL FOREST GROWTH IN UMPQUA RIVER UNIT, OREGON

COUNTY AND TYPE	LANDS OTHER THAN NATIONAL FORESTS										NATIONAL FORESTS										TOTAL		
	: AVERAGE :					: CURRENT ANNUAL VOLUME INCREMENT ^{3/} :					: AVERAGE :					: CURRENT ANNUAL VOLUME INCREMENT ^{3/} :					:		
	: STAND CONDITIONS :					: DISTRIBUTION BY SPECIES :					: STAND CONDITIONS :					: DISTRIBUTION BY SPECIES :					:		
	AREA ^{1/}	AGE	STOCK- ING	SITE ^{2/} INDEX	TOTAL	DOUGLAS FIR	HEM- LOCKS	AND CONIFERS	SPRUCES		AREA ^{1/}	AGE	STOCK- ING	SITE ^{2/} INDEX	TOTAL	DOUGLAS FIR	HEM- LOCKS	AND CONIFERS	SPRUCES		AREA ^{1/}	CURRENT ANNUAL VOLUME INCREMENT	
	ACRES	YEARS	PERCENT		M CUBIC FEET	M BOARD FEET	PERCENT	PERCENT	PERCENT		ACRES	YEARS	PERCENT		M CUBIC FEET	M BOARD FEET	PERCENT	PERCENT	PERCENT		ACRES	M CUBIC FEET	M BOARD FEET
DOUGLAS (EASTERN PART)																							
DOUGLAS FIR 22"-40" D.B.H.	429,981	118	54	140	13,792	138,238	90	5	5		62,891	139	72	123	2,032	19,984	90	5	5		492,872	15,824	158,222
DOUGLAS FIR 6"-20" D.B.H.	280,160	58	59	137	25,239	81,246	90	5	5		47,140	46	55	120	3,601	2,870	85	10	5		327,300	28,840	84,116
DOUGLAS FIR LESS THAN 6" D.B.H.	38,930	15	45	146	2,979		95	3	2		38,035	14	67	121	2,422		85	10	5		76,965	5,401	
WESTERN HEMLOCK LESS THAN 6" D.B.H.	160	20	55	140	16			100													160	16	
WESTERN RED CEDAR 0"-24" D.B.H.		50	25	143	2	5																2	5
PONDEROSA PINE MORE THAN 22" D.B.H.	5,417	149	25	123	46	510	5		95												5,417	46	510
PONDEROSA PINE 12"-22" D.B.H.	10,187	58	41	121	531	3,348	15		85		1,886	70	49	114	86	172	15		85		12,073	617	3,520
PONDEROSA PINE LESS THAN 12" D.B.H.	1,210	19	40	129	75		15		85		885	25	76	132	114		15		85		2,095	189	
FIR-MOUNTAIN HEMLOCK LESS THAN 16" D.B.H.											3,609	25	76	90	229	12	15	75	10		3,609	229	12
WHITE FIR 20" OR LESS D.B.H.	190	40	55	140	19		20	80			909	11	83	111	35		25	75			1,099	54	
TOTAL OR AVERAGE FOR CONIFEROUS TYPES	766,235				42,699	223,347	89	5	6		155,355				8,519	23,038	82	11	7		921,590	51,218	246,385
HARDWOOD TYPE	76,003				1,527	64					1,115				22						77,118	1,549	64
COUNTY TOTAL	842,238				44,226	223,411					156,470				8,541	23,038					998,708	52,767	246,449

^{1/} AREAS SHOWN IN THIS TABLE INCLUDE ONLY THOSE ON WHICH THE STANDS ARE 160 YEARS OR LESS IN AGE. ^{2/} "SITE INDEX" IS AVERAGE HEIGHT OF DOMINANT AND CODOMINANT TREES AT 100 YEARS. ^{3/} GROWTH IN CUBIC FEET IS SHOWN FOR ALL TREES 3.6 INCHES OR MORE IN D.B.H. GROWTH IN BOARD FEET IS SHOWN FOR ALL TREES 15.6 INCHES OR MORE IN D.B.H. ESTIMATED IN 32-FOOT LOGS TO 12-INCH TOP, SCRIBNER RULE.

FOREST GROWTH IN THE DOUGLAS FIR REGION
FROM GROWTH PHASE OF FOREST SURVEY

TABLE 6.—CURRENT ANNUAL FOREST GROWTH IN SOUTH OREGON COAST UNIT

COUNTY AND TYPE	LANDS OTHER THAN NATIONAL FORESTS															NATIONAL FORESTS															TOTAL			
	AVERAGE			CURRENT ANNUAL VOLUME INCREMENT ^{3/}			DISTRIBUTION BY SPECIES			AVERAGE			CURRENT ANNUAL VOLUME INCREMENT ^{3/}			DISTRIBUTION BY SPECIES			AVERAGE			CURRENT ANNUAL VOLUME INCREMENT												
	STAND CONDITIONS			STOCK-ING			AVERAGE SITE INDEX ^{2/}			TOTAL			STOCK-ING			AVERAGE SITE INDEX ^{2/}			TOTAL			STOCK-ING			AVERAGE SITE INDEX ^{2/}									
	ACRES	YEARS	PERCENT	FEET	FEET	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT						
DOUGLAS (WESTERN PART)	DOUGLAS FIR 22"-40" D.B.H.	54,148	90	68	169	4,499	35,753	90	7	3	8,740	99	60	165	514	4,357	90	7	3	62,888	5,013	40,110												
	DOUGLAS FIR 6"-20" D.B.H.	58,806	45	65	169	8,534	26,136	70	20	10	15,773	46	77	168	2,650	7,998	85	10	5	74,579	11,184	34,134												
	DOUGLAS FIR LESS THAN 6" D.B.H.	2,865	11	61	167	168		70	20	10	1,918	11	76	167	126		90	5	5	4,783	294													
	SITKA SPRUCE 6"-24" D.B.H.	850	56	70	170	129	533	20	80											880	129	533												
	SITKA SPRUCE LESS THAN 6" D.B.H.	155	10	55	172	7		20	80		10	40	55	166	1	19	15	80	5	155	7	25												
	WESTERN HEMLOCK 6"-20" D.B.H.	70	35	85	166	9	6	15	80	5	26,441				3,291	12,374	90	7	3	143,335	16,637	74,802												
	TOTAL OR AVERAGE FOR CONIFEROUS TYPES	116,894				13,346	62,428	75	16	8	6,057				121	1,272				10,490	199	1,520												
	HARDWOOD TYPE	4,433				78	248				32,498				3,412	13,646				153,825	16,836	76,322												
	COUNTY TOTAL	121,327				13,424	62,676																											
	C003	DOUGLAS FIR 22"-40" D.B.H.	135,635	77	52	166	10,552	81,280	85	10	5	4,155	77	52	164	36	667	90	5	5	139,780	10,638	81,947											
DOUGLAS FIR 6"-20" D.B.H.		266,270	50	53	166	29,121	106,567	90	5	5	4,110	53	57	159	510	1,463	90	5	5	270,380	29,631	108,030												
DOUGLAS FIR LESS THAN 6" D.B.H.		35,720	14	51	160	2,753		90	5	5	4,510	20	85	127	624		90	5	5	40,230	3,377													
SITKA SPRUCE 6"-24" D.B.H.		9,765	43	75	130	1,206	654	7	90	3										9,765	1,206	654												
SITKA SPRUCE LESS THAN 6" D.B.H.		2,550	10	30	147	49		7	90	3										2,550	49													
WESTERN HEMLOCK 6"-20" D.B.H.		95	30	85	140	16		5	90	5										95	16													
WESTERN RED CEDAR 0"-24" D.B.H.		610	40	85	132	88		30	80	70										610	88													
WHITE FIR MORE THAN 20" D.B.H.		1,140	66	55	151	98	572	20	80											1,140	98													
WHITE FIR 20" OR LESS D.B.H.		605	60	80	167	91	547	20	80		9,775				1,220	2,130	90	5	5	462,105	45,194	191,750												
TOTAL OR AVERAGE FOR CONIFEROUS TYPES		452,330				43,974	189,620	86	9	5	50				1	6				23,045	866	1,069												
HARDWOOD TYPE	22,995				865	1,063				9,825				1,221	2,136				485,150	46,060	192,819													
COUNTY TOTAL	475,325				44,839	190,683																												
CURRY	DOUGLAS FIR 22"-40" D.B.H.	42,500	84	52	141	2,346	17,696	80	10	10	16,970	48	85	122	2,043	350	85	10	5	42,500	2,346	17,696												
	DOUGLAS FIR 6"-20" D.B.H.	73,621	48	53	141	6,915	10,791	70	15	15	14,705	28	85	110	1,671		85	10	5	90,591	8,998	11,141												
	DOUGLAS FIR LESS THAN 6" D.B.H.	4,296	14	54	140	280		70	15	15										19,301	1,951													
	SITKA SPRUCE MORE THAN 24" D.B.H.	10	90	55	140	1	4	100												10	1	4												
	SITKA SPRUCE 6"-24" D.B.H.	2,845	57	54	136	237	649		95	5										2,845	237	649												
	SITKA SPRUCE LESS THAN 24" D.B.H.	255	40	55	134	24		5	80	15										255	24													
	WESTERN HEMLOCK 6"-20" D.B.H.	1,755	55	54	134	110	201	5	10	85	184	150	70	110	4	39	5	90	5	1,755	110	201												
	WESTERN RED CEDAR 0"-24" D.B.H.										30	100	85	110	4	14	5	90	5	184	4	39												
	FIR-MOUNTAIN HEMLOCK MORE THAN 16" D.B.H.	200	40	55	140	21	24	5	95											230	25	14												
	FIR-MOUNTAIN HEMLOCK LESS THAN 16" D.B.H.	50	80	55	148	3	513	5	95	5										30	3	24												
WHITE FIR 20" OR LESS D.B.H.	2,880	54	50	137	226	513	5	90	5	31,889				3,722	403	85	10	5	2,880	226	513													
TOTAL OR AVERAGE FOR CONIFEROUS TYPES	128,412				10,163	29,878	68	18	14	60,322				1,206					160,301	13,885	30,281													
HARDWOOD TYPE	29,627				683	302													85,949	1,889	302													
COUNTY TOTAL	154,039				10,846	30,180														246,250	15,774	30,583												
GRAND TOTALS	CONIFEROUS TYPES	697,636				67,483	281,926	81	12	7	68,105				8,233	14,907	86	9	5	765,741	75,716	296,833												
	HARDWOOD TYPE	53,055				1,626	1,613				66,429				1,328	1,278				119,484	2,954	2,891												
	ALL TYPES	750,691				69,109	283,539				134,534				9,561	16,185				885,225	78,670	299,724												

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FOREST GROWTH IN THE DOUGLAS FIR REGION
FROM GROWTH PHASE OF FOREST SURVEY

TABLE 7.—CURRENT ANNUAL FOREST GROWTH IN ROGUE RIVER UNIT, OREGON

COUNTY AND TYPE	LANDS OTHER THAN NATIONAL FORESTS														NATIONAL FORESTS														TOTAL			
	AVERAGE				CURRENT ANNUAL VOLUME INCREMENT				AVERAGE				CURRENT ANNUAL VOLUME INCREMENT				AVERAGE				CURRENT ANNUAL VOLUME INCREMENT											
	STAND CONDITIONS				DISTRIBUTION BY SPECIES				STAND CONDITIONS				DISTRIBUTION BY SPECIES				STAND CONDITIONS				DISTRIBUTION BY SPECIES											
	AREA	AGE	STOCKING	AVERAGE SITE INDEX	TOTAL	DOUGLAS FIR	HEMLOCK	CEDARS	AND OTHER	ACRES	YEARS	PERCENT	M CUBIC FEET	M BOARD FEET	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	ACRES	YEARS	PERCENT	M CUBIC FEET	M BOARD FEET	PERCENT	PERCENT	PERCENT	PERCENT			
JOSEPHINE	DOUGLAS FIR 22"-40" D.B.H.	15,633	84	51	120	647	3,603	88	2	10	180	84	51	110	7	27	85	7	8	15,813	654	3,630	15,813	654	3,630	15,813	654	3,630	15,813			
	DOUGLAS FIR 6"-20" D.B.H.	76,675	58	54	114	8,332	6,170	75	2	23	3,505	63	65	111	232	247	80	10	10	80,180	8,564	6,417	80,180	8,564	6,417	80,180	8,564	6,417	80,180			
	DOUGLAS FIR LESS THAN 6" D.B.H.	6,445	17	54	114	353		83	2	15	3,270	24	82	110	364		80	10	10	9,715	717		9,715	717		9,715	717		9,715			
	PONDEROSA PINE 12"-22" D.B.H.	39,245	40	51	117	2,874		6	2	92	318	46	68	132	14	25	15	3	82	318	14	25	39,279	2,877		39,279	2,877		39,279			
	PONDEROSA PINE LESS THAN 12" D.B.H.	110	40	55	110	8		5	90	5	1,035	34	41	55	120	3	2	94	4	39,279	2,877		39,279	2,877		39,279	2,877		39,279			
	FIR-MOUNTAIN HEMLOCK LESS THAN 16" D.B.H.	138,108				12,214	9,773	60	2	38	8,342				48		2	16	11	146,480	12,882	10,072	146,480	12,882	10,072	146,480	12,882	10,072	146,480			
	TOTAL OR AVERAGE FOR CONIFEROUS TYPES	10,920				121	38				5,219				104					16,139	225		16,139	225		16,139	225		16,139			
	HARDWOOD TYPE	149,028				12,335	9,811				13,561				772	299				162,589	13,107	10,110	162,589	13,107	10,110	162,589	13,107	10,110	162,589			
	COUNTY TOTAL																															
	JACKSON	DOUGLAS FIR 22"-40" D.B.H.	26,107	126	41	106	376	3,413	83	2	15	845	126	41	106	12	111	80	8	12	26,992	388	3,524	26,992	388	3,524	26,992	388	3,524	26,992		
DOUGLAS FIR 6"-20" D.B.H.		95,488	40	59	108	6,984	430	73	2	25	10,363	40	59	134	1,068		78	10	12	105,651	8,052	430	105,651	8,052	430	105,651	8,052	430	105,651			
DOUGLAS FIR LESS THAN 6" D.B.H.		15,594	15	51	110	687		65	2	35	18,403	15	51	132	1,275		75	10	15	33,997	1,962		33,997	1,962		33,997	1,962		33,997			
WESTERN HEMLOCK LESS THAN 6" D.B.H.		70	10	55	128	7		30	65	5																						
PONDEROSA PINE 12"-22" D.B.H.		4,116	83	44	105	121	372	26	2	72	7,938	83	44	120	286	1,540	30	6	64	12,054	407	1,912	12,054	407	1,912	12,054	407	1,912	12,054			
PONDEROSA PINE LESS THAN 12" D.B.H.		104,406	41	55	108	6,105	44	34	1	65	6,556	41	55	120	512		30	6	64	110,962	6,617	44	110,962	6,617	44	110,962	6,617	44	110,962			
FIR-MOUNTAIN HEMLOCK LESS THAN 16" D.B.H.		304	40	55	105	19		17	80	3	7,431	40	55	134	714	209	12	80	8	7,735	733		7,735	733		7,735	733		7,735			
WHITE FIR 20" OR LESS D.B.H.		4,809	53	65	110	340	400	15	75	10	52,569	53	65	134	104		55	25	20	5,842	444	609	5,842	444	609	5,842	444	609	5,842			
TOTAL OR AVERAGE FOR CONIFEROUS TYPES		250,974				14,641	4,659	55	3	42	1,240				3,971	1,860				303,543	18,612	6,519	303,543	18,612	6,519	303,543	18,612	6,519	303,543			
HARDWOOD TYPE		134,128				2,413	235				53,809				2					135,368	2,415	235	135,368	2,415	235	135,368	2,415	235	135,368			
COUNTY TOTAL	385,102				17,054	4,894													438,911	21,027	6,754	438,911	21,027	6,754	438,911	21,027	6,754	438,911				
GRAND TOTALS	CONIFEROUS TYPES	389,082				26,855	14,432	57	3	40	60,911				4,639	2,159	56	23	21	449,993	31,494	16,591	449,993	31,494	16,591	449,993	31,494	16,591	449,993			
	HARDWOOD TYPE	145,048				2,534	273				6,459				106					151,507	2,640	273	151,507	2,640	273	151,507	2,640	273	151,507			
	ALL TYPES	534,130				29,389	14,705				67,370				4,745	2,159				601,500	34,134	16,864	601,500	34,134	16,864	601,500	34,134	16,864	601,500			

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FOREST GROWTH IN THE DOUGLAS FIR REGION
FROM GROWTH PHASE OF FOREST SURVEY

TABLE 8.—CURRENT ANNUAL FOREST GROWTH IN NORTH PUGET SOUND UNIT, WASHINGTON

COUNTY AND TYPE	LANDS OTHER THAN NATIONAL FORESTS														NATIONAL FORESTS														TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	AVERAGE							CURRENT ANNUAL VOLUME INCREMENT ^{3/}							AVERAGE							CURRENT ANNUAL VOLUME INCREMENT ^{3/}							CURRENT ANNUAL VOLUME INCREMENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	STAND CONDITIONS	AGE	STOCK-ING	AVERAGE	STOCK-ING	PERCENT	PERCENT	ACRES	YEARS	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT

FOREST GROWTH IN THE DOUGLAS FIR REGION
FROM GROWTH PHASE OF FOREST SURVEY

TABLE 9.—CURRENT ANNUAL FOREST GROWTH IN CENTRAL PUGET SOUND UNIT, WASHINGTON

COUNTY AND TYPE	LANDS OTHER THAN NATIONAL FORESTS														NATIONAL FORESTS														TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	STAND CONDITIONS							CURRENT ANNUAL VOLUME INCREMENT							STAND CONDITIONS							CURRENT ANNUAL VOLUME INCREMENT							TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	AREA	AGE	STOCKING	AVERAGE GROWTH INDEX	PERCENT	PERCENT	PERCENT	ACRE	YEARS	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT

FOREST GROWTH IN THE DOUGLAS FIR REGION
FROM GROWTH PHASE OF FOREST SURVEY

TABLE 11.—CURRENT ANNUAL FOREST GROWTH IN GRAYS HARBOR UNIT, WASHINGTON

COUNTY AND TYPE	LANDS OTHER THAN NATIONAL FORESTS										NATIONAL FORESTS										TOTAL																					
	AVERAGE					CURRENT ANNUAL VOLUME INCREMENT ^{3/}					AVERAGE					CURRENT ANNUAL VOLUME INCREMENT ^{3/}					AREA ^{1/}	CURRENT ANNUAL VOLUME INCREMENT																				
	STAND CONDITIONS					DISTRIBUTION BY SPECIES					STAND CONDITIONS					DISTRIBUTION BY SPECIES																										
	AREA ^{1/}	AGE	STOCK- ING	SITE INDEX ^{2/}	TOTAL	DOUGLAS FIR	HEM- LOCKS	AND CONIFERS	BALSAM	FIR	CEDARS	DOUGLAS FIR	HEM- LOCKS	AND CONIFERS	BALSAM	FIR	CEDARS																									
ACRES	YEARS	PERCENT		M CUBIC FEET	M BOARD FEET	PERCENT	PERCENT	PERCENT	ACRES	YEARS	PERCENT		M CUBIC FEET	M BOARD FEET	PERCENT	PERCENT	PERCENT	ACRES	M CUBIC FEET	M BOARD FEET																						
																						FEET	FEET																			
JEFFERSON (WESTERN PART)																																										
DOUGLAS FIR 22"-40" D.B.H.																						236	90	70	170	17	136	70	29	1	1,005	119	70	132	38	376	70	29	1	1,241	55	512
DOUGLAS FIR 6"-20" D.B.H.																															212	56	73	150	27	100	70	29	1	212	27	100
DOUGLAS FIR LESS THAN 6" D.B.H.																															10	20	70	140	1		70	29	1	10	1	
SITKA SPRUCE MORE THAN 24" D.B.H.																						212	100	25	170	5	45		90	10	516	80	70	125	34	191		90	10	728	39	236
SITKA SPRUCE 6"-24" D.B.H.																															30	30	70	125	3		90	10	30	3		
WESTERN HEMLOCK MORE THAN 20" D.B.H.																															1,671	125	70	143	64	636		90	10	1,671	64	636
WESTERN HEMLOCK 6"-20" D.B.H.																						2,201	39	84	170	434	688		90	10	683	105	71	125	44	191		90	10	2,884	478	879
WESTERN HEMLOCK LESS THAN 6" D.B.H.																						24,961	10	85	163	1,580			90	10	453	30	82	135	59		90	10	25,414	1,639		
WESTERN RED CEDAR 0"-24" D.B.H.																						320	20	85	170	64			30	70									320	64		
FIR-MOUNTAIN HEMLOCK MORE THAN 16" D.B.H.																															1,532	100	70	125	71	590	5	90	5	1,532	71	590
FIR-MOUNTAIN HEMLOCK LESS THAN 16" D.B.H.																															146	50	75	80	8		5	90	5	146	8	
TOTAL OR AVERAGE FOR CONIFEROUS TYPES																						27,930				2,100	869	1	88	11	6,258				349	2,084	14	79	7	34,188	2,449	2,953
HARDWOOD TYPE																						8,032				118	442				1,848				55	222				9,880	173	664
COUNTY TOTAL																						35,962				2,218	1,311				8,106				404	2,306				44,068	2,622	3,617
GRAYS HARBOR																																										
DOUGLAS FIR 22"-40" D.B.H.																						11,505	82	78	176	1,275	10,276	78	20	2	498	131	70	131	16	169	73	25	2	12,003	1,291	10,445
DOUGLAS FIR 6"-20" D.B.H.																						38,120	29	65	173	6,180	3,309	82	16	2	270	60	70	125	24	65	78	20	2	38,390	6,204	3,374
DOUGLAS FIR LESS THAN 6" D.B.H.																						89,775	10	47	173	3,377		80	18	2										89,775	3,377	
SITKA SPRUCE MORE THAN 24" D.B.H.																						4,576	90	65	152	320	2,600	10	75	15										4,576	320	2,600
SITKA SPRUCE 6"-24" D.B.H.																						2,400	59	57	156	238	834	10	80	10										2,400	238	834
SITKA SPRUCE LESS THAN 6" D.B.H.																						540	10	34	163	12		15	75	10										540	12	
WESTERN HEMLOCK MORE THAN 20" D.B.H.																						109,081	90	65	173	8,668	59,749	5	85	10	1,459	125	70	127	49	491	7	88	5	110,540	8,717	60,240
WESTERN HEMLOCK 6"-20" D.B.H.																						81,285	36	66	173	12,980	16,918	12	81	7	388	87	70	155	31	244	10	87	3	81,673	13,011	17,162
WESTERN HEMLOCK LESS THAN 6" D.B.H.																						35,475	10	63	170	1,749		15	78	7	1,250	22	73	159	202		10	88	2	36,725	1,951	
WESTERN RED CEDAR 0"-24" D.B.H.																						5,630	19	59	146	512	140	10	30	60	50	10	70	125	3		10	30	60	5,680	515	140
TOTAL OR AVERAGE FOR CONIFEROUS TYPES																						378,387				35,311	93,826	32	61	7	3,915				325	969	18	79	3	382,302	35,636	94,795
HARDWOOD TYPE																						37,150				1,634	1,358				1,068				32	128				38,218	1,666	1,486
COUNTY TOTAL																						415,537				36,945	95,184				4,983				357	1,097				420,520	37,302	96,281
PACIFIC																																										
DOUGLAS FIR 22"-40" D.B.H.																						25,805	75	85	169	3,355	26,580	79	20	1										25,805	3,355	26,580
DOUGLAS FIR 6"-20" D.B.H.																						13,090	31	77	166	2,400	1,339	84	15	1										13,090	2,400	1,339
DOUGLAS FIR LESS THAN 6" D.B.H.																						19,070	10	67	163	1,033		83	16	1										19,070	1,033	
SITKA SPRUCE MORE THAN 24" D.B.H.																						4,386	90	75	157	357	2,922	15	80	5										4,386	357	2,922
SITKA SPRUCE 6"-24" D.B.H.																						6,785	34	78	139	1,024	118	10	85	5										6,785	1,024	118
SITKA SPRUCE LESS THAN 6" D.B.H.																						765	10	49	121	19		10	85	5										765	19	
WESTERN HEMLOCK MORE THAN 20" D.B.H.																						2,118	90	75	165	6,749	14,466	10	85	5										2,118	6,749	14,466
WESTERN HEMLOCK 6"-20" D.B.H.																						41,245	47	78	168	7,037	21,909	15	80	5										41,245	7,037	21,909
WESTERN HEMLOCK LESS THAN 6" D.B.H.																						23,215	10	68	173	1,348		20	75	5										23,215	1,348	
WESTERN RED CEDAR 0"-24" D.B.H.																						750	20	85	158	136		15	25	60										750	136	
TOTAL OR AVERAGE FOR CONIFEROUS TYPES																						137,229				23,458	67,334	33	63	4										137,229	23,458	67,334
HARDWOOD TYPE																						13,095				529	516													13,095	529	516
COUNTY TOTAL																						150,324				23,987	67,850													150,324	23,987	67,850
GRAND TOTALS																																										
CONIFEROUS TYPES																						543,546				60,869	162,029	31	63	6	10,173				674	3,053	16	79	5	553,719	61,543	165,082
HARDWOOD TYPE																						58,277				2,281	2,316				2,916				87	350				61,193	2,368	2,666
ALL TYPES																						601,823				63,150	164,345				13,089				761	3,403				614,912	63,911	167,748

^{1/} AREAS SHOWN IN THIS TABLE INCLUDE ONLY THOSE ON WHICH THE STANDS ARE 160 YEARS OR LESS IN AGE. ^{2/} "SITE INDEX" IS AVERAGE HEIGHT OF DOMINANT AND CODOMINANT TREES AT 100 YEARS. ^{3/} GROWTH IN CUBIC FEET IS SHOWN FOR ALL TREES 3.6 INCHES OR MORE IN D.B.H. GROWTH IN BOARD FEET IS SHOWN FOR ALL TREES 15.6 INCHES OR MORE IN D.B.H. ESTIMATED IN 32-FOOT LOGS TO 12-INCH TOP, SCRIBNER RULE.

FOREST GROWTH IN THE DOUGLAS FIR REGION
FROM GROWTH PHASE OF FOREST SURVEY

TABLE 12.--CURRENT ANNUAL FOREST GROWTH IN COLUMBIA RIVER UNIT, WASHINGTON

COUNTY AND TYPE	LANDS OTHER THAN NATIONAL FORESTS										NATIONAL FORESTS										TOTAL		
	: AVERAGE :					CURRENT ANNUAL VOLUME INCREMENT ^{3/}					: AVERAGE :					CURRENT ANNUAL VOLUME INCREMENT ^{3/}					:		
	: STAND CONDITIONS :					: DISTRIBUTION BY SPECIES :					: STAND CONDITIONS :					: DISTRIBUTION BY SPECIES :					:		
	AREA ^{1/}	AGE	STOCK- ING	SITE- INDEX ^{2/}	TOTAL	DOUGLAS FIR	HEM- LOCKS	AND CEDARS	AND CONIFERS	SPRUCES	AREA ^{1/}	AGE	STOCK- ING	SITE- INDEX ^{2/}	TOTAL	DOUGLAS FIR	HEM- LOCKS	AND CEDARS	AND CONIFERS	SPRUCES	AREA ^{1/}	CURRENT ANNUAL VOLUME INCREMENT	
	ACRES	YEARS	PERCENT		M CUBIC FEET	M BOARD FEET	PERCENT	PERCENT	PERCENT		ACRES	YEARS	PERCENT		M CUBIC FEET	M BOARD FEET	PERCENT	PERCENT	PERCENT		ACRES	M CUBIC FEET	M BOARD FEET
WAHIAKUM																							
DOUGLAS FIR 22"-40" D.B.H.	74	90	65	167	6	45	90	9	1												74	6	45
DOUGLAS FIR 6"-20" D.B.H.	7,777	41	82	164	1,416	2,512	80	17	3												7,777	1,416	2,512
DOUGLAS FIR LESS THAN 6" D.B.H.	6,821	13	75	167	654		80	17	3												6,821	654	
SITKA SPRUCE 6"-24" D.B.H.	3,922	76	26	167	154	1,364		99	1												3,922	154	1,364
WESTERN HEMLOCK MORE THAN 20" D.B.H.	8,283	80	81	162	914	7,057	8	90	2												8,283	914	7,057
WESTERN HEMLOCK 6"-20" D.B.H.	26,098	46	80	164	4,422	9,823	8	90	2												26,098	4,422	9,823
WESTERN HEMLOCK LESS THAN 6" D.B.H.	11,111	14	78	165	1,179		8	90	2												11,111	1,179	
TOTAL OR AVERAGE FOR CONIFEROUS TYPES	64,086				8,745	20,801	25	73	2												64,086	8,745	20,801
HARDWOOD TYPE	5,843				168	1,028															5,843	168	1,028
COUNTY TOTAL	69,929				8,913	21,829															69,929	8,913	21,829
COWLITZ																							
DOUGLAS FIR 22"-40" D.B.H.	36,397	82	70	159	3,350	26,061	90	9	1												36,397	3,350	26,061
DOUGLAS FIR 6"-20" D.B.H.	171,167	51	76	159	25,518	76,407	90	9	1		1,250	30	85	125	176		90	9	1		172,417	25,694	76,407
DOUGLAS FIR LESS THAN 6" D.B.H.	50,284	13	60	159	3,326		90	9	1												50,284	3,326	
WESTERN HEMLOCK 6"-20" D.B.H.	545	40	85	141	88		4	95	1												545	88	
FIR-MOUNTAIN HEMLOCK MORE THAN 16" D.B.H.											3,020	120	70	110	84	815	4	95	1		3,020	84	815
FIR-MOUNTAIN HEMLOCK LESS THAN 16" D.B.H.	1,205	90	55	118	48	301	4	95	1		965	45	72	110	83	24	4	95	1		2,170	131	325
TOTAL OR AVERAGE FOR CONIFEROUS TYPES	259,598				32,330	102,769	90	9	1		5,235				343	839	48	51	1		264,833	32,673	103,608
HARDWOOD TYPE	4,474				223	585					10										4,484	223	586
COUNTY TOTAL	264,072				32,553	103,354					5,245				343	840					269,317	32,896	104,194
CLARK																							
DOUGLAS FIR 22"-40" D.B.H.	13,206	90	70	165	1,068	8,699	95	4	1												13,206	1,068	8,699
DOUGLAS FIR 6"-20" D.B.H.	45,266	45	70	147	6,117	5,810	95	4	1												45,266	6,117	5,810
DOUGLAS FIR LESS THAN 6" D.B.H.	40,548	16	68	151	4,238		95	4	1												40,548	4,238	
WESTERN RED CEDAR 0"-24" D.B.H.	1,024	24	54	140	87		10	30	60												1,024	87	
WHITE FIR 20" OR LESS D.B.H.	957	44	77	140	133	117	24	75	1												957	133	117
TOTAL OR AVERAGE FOR CONIFEROUS TYPES	101,001				11,643	14,626	94	5	1												101,001	11,643	14,626
HARDWOOD TYPE	8,921				307	1,243															8,921	307	1,243
COUNTY TOTAL	109,922				11,950	15,869															109,922	11,950	15,869
SKAMANIA																							
DOUGLAS FIR 22"-40" D.B.H.	24,397	128	49	122	515	5,272	90	9	1		92,668	105	74	130	4,195	38,483	90	9	1		117,065	4,710	43,755
DOUGLAS FIR 6"-20" D.B.H.	47,785	56	63	129	4,184	9,804	90	9	1		74,455	66	41	125	7,000	22,434	90	9	1		122,240	11,184	32,238
DOUGLAS FIR LESS THAN 6" D.B.H.	30,045	17	63	123	2,049		90	9	1		104,430	18	68	128	8,271		90	9	1		134,475	10,320	
WESTERN HEMLOCK 6"-20" D.B.H.	1,027	143	54	131	23	226	9	90	1		1,943	147	61	110	35	354	9	90	1		2,970	58	580
WESTERN HEMLOCK LESS THAN 6" D.B.H.											506	7	25	125			9	90	1		506		
FIR-MOUNTAIN HEMLOCK LESS THAN 16" D.B.H.	2,897	67	56	133	211	210	9	90	1		79,745	40	63	112	4,479	5,926	4	95	1		82,642	4,690	6,136
WHITE FIR-LARCH-DOUGLAS FIR LESS THAN 20" D.B.H.											9,922	44	85	110	939	465	4	95	1		9,922	939	465
TOTAL OR AVERAGE FOR CONIFEROUS TYPES	106,151				6,982	15,512	88	11	1		363,669				24,919	67,662	71	28	1		469,820	31,901	83,174
HARDWOOD TYPE	963				25	126					327				10	39					1,290	35	165
COUNTY TOTAL	107,114				7,007	15,638					363,996				24,929	67,701					471,110	31,936	83,339
GRAND TOTALS																							
CONIFEROUS TYPES	530,836				59,700	153,708	81	18	1		368,904				25,262	68,501	71	28	1		699,740	84,962	222,209
HARDWOOD TYPE	20,201				723	2,982					337				10	40					20,538	733	3,022
ALL TYPES	551,037				60,423	156,690					369,241				25,272	68,541					920,278	85,695	225,231

1/ AREAS SHOWN IN THIS TABLE INCLUDE ONLY THOSE ON WHICH THE STANDS ARE 160 YEARS OR LESS IN AGE. 2/ "SITE INDEX" IS AVERAGE HEIGHT OF DOMINANT AND CODOMINANT TREES AT 100 YEARS. 3/ GROWTH IN CUBIC FEET IS SHOWN FOR ALL TREES 3.6 INCHES OR MORE IN D.B.H. GROWTH IN BOARD FEET IS SHOWN FOR ALL TREES 15.6 INCHES OR MORE IN D.B.H. ESTIMATED IN 32-FOOT LOGS TO 12-INCH TOP, SCRIBNER RULE.

FOREST GROWTH IN THE DOUGLAS FIR REGION
FROM GROWTH PHASE OF FOREST SURVEY

TABLE 13.—SUMMARY OF CURRENT ANNUAL CONIFEROUS GROWTH

UNIT	LANDS OTHER THAN NATIONAL FORESTS			NATIONAL FORESTS			TOTAL		
	AREA ^{1/}	CURRENT ANNUAL GROWTH ^{2/}		AREA ^{1/}	CURRENT ANNUAL GROWTH ^{2/}		AREA ^{1/}	CURRENT ANNUAL GROWTH ^{2/}	
	ACRES	M CU. FT.	M BD. FT.	ACRES	M CU. FT.	M BD. FT.	ACRES	M CU. FT.	M BD. FT.
WESTERN OREGON									
COLUMBIA RIVER	822,723	78,158	143,707	264,896	27,379	12,177	1,087,619	105,537	155,884
WILLAMETTE RIVER	1,108,720	105,364	293,259	574,954	60,454	128,741	1,683,674	165,818	422,000
NORTH OREGON COAST ^{3/}	340,465	37,789	130,828	273,131	26,254	152,231	613,596	64,043	283,059
UMPQUA RIVER	766,235	42,699	223,347	155,355	8,519	23,038	921,590	51,218	246,385
SOUTH OREGON COAST ^{4/}	697,636	67,483	281,926	68,105	8,233	14,907	765,741	75,716	296,833
ROGUE RIVER	389,082	26,855	14,432	60,911	4,639	2,159	449,993	31,494	16,591
TOTAL	4,124,861	358,348	1,087,499	1,397,352	135,478	333,253	5,522,213	493,826	1,420,752
WESTERN WASHINGTON									
NORTH PUGET SOUND	649,643	51,774	98,719	136,992	9,440	15,241	786,635	61,214	113,960
CENTRAL PUGET SOUND	1,220,618	87,870	105,669	191,602	13,604	21,570	1,412,220	101,474	127,239
SOUTH PUGET SOUND	537,132	65,384	200,984	204,963	17,298	59,424	742,095	82,682	260,408
GRAYS HARBOR	543,546	60,869	162,029	10,173	674	3,053	553,719	61,543	165,082
COLUMBIA RIVER	530,836	59,700	153,708	368,904	25,262	68,501	899,740	84,962	222,209
TOTAL	3,481,775	325,597	721,109	912,634	66,278	167,789	4,394,409	391,875	888,898
GRAND TOTAL	7,606,636	683,945	1,808,608	2,309,986	201,756	501,042	9,916,622	885,701	2,309,650

^{1/} AREAS SHOWN IN THIS TABLE INCLUDE ONLY THOSE ON WHICH THE STANDS ARE 160 YEARS OR LESS IN AGE.

^{2/} GROWTH IN CUBIC FEET IS SHOWN FOR ALL TREES 3.6 INCHES OR MORE IN D.B.H. GROWTH IN BOARD FEET IS SHOWN FOR ALL TREES 15.6 INCHES OR MORE IN D.B.H., ESTIMATED IN 32-FOOT LOGS TO 12-INCH TOP, SCRIBNER RULE.

^{3/} DATA EXCLUDE 182,060 ACRES OF POTENTIAL CONIFEROUS FOREST LAND TEMPORARILY OCCUPIED BY HARDWOODS (TYPE 31).

^{4/} DATA EXCLUDE 14,520 ACRES OF POTENTIAL CONIFEROUS FOREST LAND TEMPORARILY OCCUPIED BY HARDWOODS (TYPE 31).

FOREST GROWTH IN THE DOUGLAS FIR REGION
FROM GROWTH PHASE OF FOREST SURVEY

TABLE 14.--SUMMARY OF CURRENT ANNUAL HARDWOOD GROWTH

UNIT	:	AREA ^{1/}	:	CURRENT ANNUAL GROWTH ^{2/}
	:	ACRES	:	M CUBIC FEET : M BOARD FEET
WESTERN OREGON				
COLUMBIA RIVER	:	65,716	:	2,357 : 2,586
WILLAMETTE RIVER	:	121,207	:	2,734 : 5,142
NORTH OREGON COAST ^{3/}	:	226,363	:	5,649 : 40,553
UMPQUA RIVER	:	77,118	:	1,549 : 64
SOUTH OREGON COAST ^{4/}	:	119,484	:	2,954 : 2,891
ROGUE RIVER	:	151,507	:	2,640 : 273
TOTAL	:	761,395	:	17,883 : 51,509
WESTERN WASHINGTON				
NORTH PUGET SOUND	:	134,252	:	5,128 : 6,968
CENTRAL PUGET SOUND	:	104,458	:	3,307 : 5,963
SOUTH PUGET SOUND	:	35,730	:	1,345 : 1,768
GRAYS HARBOR	:	61,193	:	2,368 : 2,666
COLUMBIA RIVER	:	20,538	:	733 : 3,022
TOTAL	:	356,171	:	12,881 : 20,387
GRAND TOTAL	:	1,117,566	:	30,764 : 71,896

- ^{1/} AREAS SHOWN ARE TOTALS FOR HARDWOOD TIMBERLAND (TYPE 31) AND OAK-MADRONE WOODLAND (TYPE 4).
- ^{2/} GROWTH IN CUBIC FEET IS SHOWN FOR ALL TREES 3.6 INCHES OR MORE IN D.B.H. GROWTH IN BOARD FEET IS SHOWN FOR ALL TREES 11.6 INCHES OR MORE IN D.B.H., ESTIMATED IN 8-FOOT LOGS TO 10-INCH TOP, SCRIBNER RULE.
- ^{3/} DATA INCLUDE 182,060 ACRES OF POTENTIAL CONIFEROUS FOREST LAND TEMPORARILY OCCUPIED BY HARDWOODS.
- ^{4/} DATA INCLUDE 14,520 ACRES OF POTENTIAL CONIFEROUS FOREST LAND TEMPORARILY OCCUPIED BY HARDWOODS.

FOREST GROWTH IN THE DOUGLAS FIR REGION
FROM GROWTH PHASE OF FOREST SURVEY

TABLE 15.—RATES^{1/} USED IN CALCULATING POTENTIAL GROWTH OF CONIFEROUS TIMBER
WITH APPROXIMATE ROTATION AGES

SITE	TREES 3.6 INCHES OR MORE IN D.B.H.		TREES 15.6 INCHES OR MORE IN D.B.H. ^{2/}		TREES 11.6 INCHES OR MORE IN D.B.H. ^{3/}	
	MEAN ANNUAL:		MEAN ANNUAL:		MEAN ANNUAL:	
CLASS	GROWTH PER	ROTATION	GROWTH PER	ROTATION	GROWTH PER	ROTATION
	ACRE	AGE	ACRE	AGE	ACRE	AGE
	CUBIC FEET	YEARS	BOARD FEET	YEARS	BOARD FEET	YEARS
I	155	60 OR 70	675	100	875	90
II	135	60 OR 70	500	120	675	100
III	105	60 OR 70	300	150	475	110
IV	75	60 OR 70	125	180	275	130
V	45	60 OR 70	30	200+	100	150
VI	20	60 OR 70				

^{1/} APPROXIMATELY 75 PERCENT OF MEAN ANNUAL GROWTH RATES OF NORMALLY STOCKED STANDS OF DOUGLAS FIR IN WESTERN OREGON AND WESTERN WASHINGTON. THE NORMAL RATES FOR SITE CLASSES I TO V APPEAR IN U.S. DEPT. AGR. TECH. BULL. 201. THE RATE FOR CLASS VI WAS DERIVED BY EXTRAPOLATION. NO ALLOWANCE IS MADE FOR BREAKAGE AND DEFECT.

^{2/} ESTIMATED BY SCRIBNER RULE IN 32-FOOT LOGS TO 12-INCH TOP.

^{3/} ESTIMATED BY SCRIBNER RULE IN 16-FOOT LOGS TO 8-INCH TOP.

FOREST GROWTH IN THE DOUGLAS FIR REGION
FROM GROWTH PHASE OF FOREST SURVEY

TABLE 16.—POTENTIAL ANNUAL CONIFEROUS GROWTH ON COMMERCIAL CONIFEROUS FOREST LAND

WESTERN OREGON												
UNIT AND COUNTY	AREA OF COMMERCIAL CONIFEROUS FOREST LAND, BY SITE QUALITY CLASS							POTENTIAL ANNUAL GROWTH ^{1/}				
	I	II	III	IV	V	VI	TOTAL	TREES 3.6	TREES 15.6	TREES 11.6		
	INCHES OR MORE	INCHES OR MORE	INCHES OR MORE	INCHES OR MORE	INCHES OR MORE	INCHES OR MORE	INCHES OR MORE	IN D.B.H.	IN D.B.H.	IN D.B.H.		

1/ CALCULATED AT ANNUAL GROWTH RATES SHOWN IN TABLE 15. 2/ ESTIMATED BY SCRIBNER RULE IN 32-FOOT LOGS TO 12-INCH TOP. 3/ ESTIMATED BY SCRIBNER RULE IN 16-FOOT LOGS TO 8-INCH TOP.
4/ DATA INCLUDE 182,060 ACRES OF POTENTIAL CONIFEROUS FOREST LAND TEMPORARILY OCCUPIED BY HARDWOODS (TYPE 31). 5/ DATA INCLUDE 14,520 ACRES OF POTENTIAL CONIFEROUS FOREST LAND TEMPORARILY OCCUPIED BY HARDWOODS (TYPE 31). 6/ DATA EXCLUDE 6,510 ACRES OF PINE WOODLAND (TYPE 5½) CONSIDERED NONCOMMERCIAL FOREST LAND.

FOREST GROWTH IN THE DOUGLAS FIR REGION
FROM GROWTH PHASE OF FOREST SURVEY

TABLE 17.—REALIZABLE MEAN ANNUAL CONIFEROUS GROWTH

WESTERN OREGON																
UNIT	GENERAL TYPE	ESTIMATED AREA				REALIZABLE MEAN ANNUAL GROWTH ^{1/} OF TREES OF INDICATED DIAMETER RANGE, BY DECADES										
		1933	1943	1953	1963	3.6 INCHES OR MORE			15.6 INCHES		11.6 INCHES		15.6 INCHES		11.6 INCHES	
						1933-42	1943-52	1953-62	1933-42	1943-52	1953-62	1933-42	1943-52			
														OR MORE	OR MORE	OR MORE
		ACRES	ACRES	ACRES	ACRES	M CU. FT.	M CU. FT.	M CU. FT.	M BD. FT.	M BD. FT.	M BD. FT.	M BD. FT.	M BD. FT.	M BD. FT.	M BD. FT.	M BD. FT.
COLUMBIA RIVER	OLD GROWTH	769,094	586,213	451,058	432,802											
	SECOND GROWTH	1,087,619	1,347,020	1,492,156	1,584,477	89,829	119,355	128,226	344,185	540,935	418,233	675,382	433,508	710,988		
	NONSTOCKED	522,828	446,308	436,327	362,262											
	TOTAL	2,379,541	2,379,541	2,379,541	2,379,541	89,829	119,355	128,226	344,185	540,935	418,233	675,382	433,508	710,988		
WILLAMETTE RIVER	OLD GROWTH	1,982,169	1,809,197	1,492,480	1,160,796											
	SECOND GROWTH	1,683,674	1,884,985	1,991,047	2,215,740	118,166	141,816	162,302	558,653	797,001	613,039	905,519	642,579	980,172		
	NONSTOCKED	392,984	364,645	575,300	682,291											
	TOTAL	4,058,827	4,058,827	4,058,827	4,058,827	118,166	141,816	162,302	558,653	797,001	613,039	905,519	642,579	980,172		
NORTH OREGON COAST ^{2/}	OLD GROWTH	316,733	251,129	156,709	98,151											
	SECOND GROWTH	613,596	886,922	922,799	927,059	52,805	71,085	77,846	316,138	402,371	369,959	490,891	378,213	511,242		
	NONSTOCKED	377,813	170,091	228,634	282,932											
	TOTAL	1,308,142	1,308,142	1,308,142	1,308,142	52,805	71,085	77,846	316,138	402,371	369,959	490,891	378,213	511,242		
UMPUQUA RIVER	OLD GROWTH	1,392,229	1,364,264	1,312,857	1,183,563											
	SECOND GROWTH	921,590	972,259	993,171	1,012,674	37,503	42,015	44,987	239,518	287,960	247,864	306,760	250,178	315,986		
	NONSTOCKED	100,165	77,461	107,956	217,747											
	TOTAL	2,413,984	2,413,984	2,413,984	2,413,984	37,503	42,015	44,987	239,518	287,960	247,864	306,760	250,178	315,986		
SOUTH OREGON COAST ^{3/}	OLD GROWTH	843,915	758,014	613,034	443,329											
	SECOND GROWTH	765,741	984,540	1,042,820	1,099,853	58,143	72,574	82,486	342,551	427,134	376,946	489,501	395,462	529,418		
	NONSTOCKED	315,650	182,752	269,452	382,124											
	TOTAL	1,925,306	1,925,306	1,925,306	1,925,306	58,143	72,574	82,486	342,551	427,134	376,946	489,501	395,462	529,418		
ROGUE RIVER	OLD GROWTH	1,441,058	1,387,643	1,309,799	1,195,183											
	SECOND GROWTH	449,993	688,829	730,738	785,637	22,097	28,311	28,342	79,363	135,063	85,738	153,161	85,588	152,789		
	NONSTOCKED	318,150	132,729	168,664	228,381											
	TOTAL	2,209,201	2,209,201	2,209,201	2,209,201	22,097	28,311	28,342	79,363	135,063	85,738	153,161	85,588	152,789		
WESTERN OREGON SUMMARY	OLD GROWTH	6,745,198	6,156,460	5,335,937	4,513,824											
	SECOND GROWTH	5,522,213	6,764,555	7,172,731	7,625,440	378,543	475,156	524,189	1,880,408	2,590,464	2,111,779	3,021,214	2,185,528	3,200,595		
	NONSTOCKED	2,027,590	1,373,986	1,786,333	2,155,737											
	TOTAL	14,295,001	14,295,001	14,295,001	14,295,001	378,543	475,156	524,189	1,880,408	2,590,464	2,111,779	3,021,214	2,185,528	3,200,595		
WESTERN WASHINGTON																
NORTH PUGET SOUND	OLD GROWTH	1,062,115	958,194	847,297	742,350											
	SECOND GROWTH	786,635	928,656	1,020,261	1,116,744	56,066	72,463	78,713	213,089	336,594	254,290	413,112	265,919	442,618		
	NONSTOCKED	429,397	391,297	410,589	419,053											
	TOTAL	2,278,147	2,278,147	2,278,147	2,278,147	56,066	72,463	78,713	213,089	336,594	254,290	413,112	265,919	442,618		
CENTRAL PUGET SOUND	OLD GROWTH	1,505,923	1,187,637	946,581	847,862											
	SECOND GROWTH	1,412,220	1,678,946	1,959,726	2,113,775	99,914	140,169	154,421	309,606	514,791	401,118	704,595	434,422	779,677		
	NONSTOCKED	748,874	800,434	760,710	705,380											
	TOTAL	3,667,017	3,667,017	3,667,017	3,667,017	99,914	140,169	154,421	309,606	514,791	401,118	704,595	434,422	779,677		
SOUTH PUGET SOUND	OLD GROWTH	580,257	459,234	245,636	206,418											
	SECOND GROWTH	742,095	917,998	996,315	1,098,577	66,228	87,583	101,980	313,803	417,898	378,086	527,501	409,416	594,089		
	NONSTOCKED	339,567	284,687	419,968	356,924											
	TOTAL	1,661,919	1,661,919	1,661,919	1,661,919	66,228	87,583	101,980	313,803	417,898	378,086	527,501	409,416	594,089		
GRAYS HARBOR	OLD GROWTH	1,158,853	1,014,237	819,904	628,132											
	SECOND GROWTH	553,719	746,768	851,873	948,263	58,685	83,738	98,210	261,096	353,525	343,656	484,801	376,826	550,394		
	NONSTOCKED	392,651	344,218	433,446	528,828											
	TOTAL	2,105,223	2,105,223	2,105,223	2,105,223	58,685	83,738	98,210	261,096	353,525	343,656	484,801	376,826	550,394		
COLUMBIA RIVER	OLD GROWTH	614,856	480,032	319,359	288,160											
	SECOND GROWTH	899,740	1,095,224	1,194,583	1,290,678	73,762	93,525	102,534	328,366	462,063	379,738	561,771	393,675	599,057		
	NONSTOCKED	422,140	361,480	422,794	357,898											
	TOTAL	1,936,736	1,936,736	1,936,736	1,936,736	73,762	93,525	102,534	328,366	462,063	379,738	561,771	393,675	599,057		
WESTERN WASHINGTON SUMMARY	OLD GROWTH	4,922,004	4,099,334	3,178,777	2,712,922											
	SECOND GROWTH	4,394,409	5,367,592	6,022,758	6,568,037	354,655	477,478	535,858	1,425,960	2,084,871	1,756,888	2,691,780	1,880,258	2,965,835		
	NONSTOCKED	2,332,629	2,182,116	2,447,507	2,368,083											
	TOTAL	11,649,042	11,649,042	11,649,042	11,649,042	354,655	477,478	535,858	1,425,960	2,084,871	1,756,888	2,691,780	1,880,258	2,965,835		
GRAND SUMMARY WESTERN OREGON AND WESTERN WASHINGTON																
	OLD GROWTH	11,667,202	10,255,794	8,514,714	7,226,746											
	SECOND GROWTH	9,916,622	12,132,147	13,195,489	14,193,477	733,198	952,634	1,060,047	3,306,368	4,675,335	3,868,667	5,712,994	4,065,786	6,166,430		
	NONSTOCKED	4,360,219	3,556,102	4,233,840	4,523,820											
	TOTAL	25,944,043	25,944,043	25,944,043	25,944,043	733,198	952,634	1,060,047	3,306,368	4,675,335	3,868,667	5,712,994	4,065,786	6,166,430		

^{1/} GROWTH THAT, ACCORDING TO CALCULATIONS DESCRIBED IN THE TEXT, MAY BE EXPECTED IF GROWTH AND DEPLETION TRENDS REVEALED BY THE SURVEY CONTINUE THROUGH THE DESIGNATED PERIOD. BOARD-MEASURE GROWTH SHOWN FOR TREES 15.6 INCHES OR MORE IN D.B.H. WAS CALCULATED BY ESTIMATING VOLUMES IN 32-FOOT LOGS TO 12-INCH TOP, BY SCRIBNER RULE. THAT SHOWN FOR TREES 11.6 INCHES OR MORE IN D.B.H. WAS CALCULATED BY ESTIMATING VOLUMES IN 16-FOOT LOGS TO 8-INCH TOP, BY SCRIBNER RULE.

^{2/} DATA EXCLUDE 182,060 ACRES OF POTENTIAL CONIFEROUS FOREST LAND TEMPORARILY OCCUPIED BY HARDWOODS (TYPE 31).

^{3/} DATA EXCLUDE 14,520 ACRES OF POTENTIAL CONIFEROUS FOREST LAND TEMPORARILY OCCUPIED BY HARDWOODS (TYPE 31).

FOREST GROWTH IN THE DOUGLAS FIR REGION
FROM GROWTH PHASE OF FOREST SURVEY

TABLE 18.--COMPARISON OF CURRENT ANNUAL, POTENTIAL ANNUAL,
AND REALIZABLE MEAN ANNUAL CONIFEROUS GROWTH

	CUBIC INCREMENT OF ALL TREES 3.6 INCHES OR MORE IN D.B.H.			BOARD-MEASURE INCREMENT ^{1/} OF ALL TREES 15.6 INCHES OR MORE IN D.B.H.		
	OREGON	WASHINGTON	TOTAL	OREGON	WASHINGTON	TOTAL
	<u>M FEET</u>	<u>M FEET</u>	<u>M FEET</u>	<u>M FEET</u>	<u>M FEET</u>	<u>M FEET</u>
CURRENT ANNUAL GROWTH, 1933	493,826	391,875	885,701	1,420,752	888,898	2,309,650
POTENTIAL ANNUAL GROWTH	1,508,195	1,250,553	2,758,748	4,434,189	3,810,024	8,244,213
REALIZABLE MEAN ANNUAL GROWTH						
1933-42	378,543	354,655	733,198	1,880,408	1,425,960	3,306,368
1943-52	475,156	477,478	952,634	2,111,779	1,756,888	3,868,667
1953-62	524,189	535,858	1,060,047	2,185,528	1,880,258	4,065,786

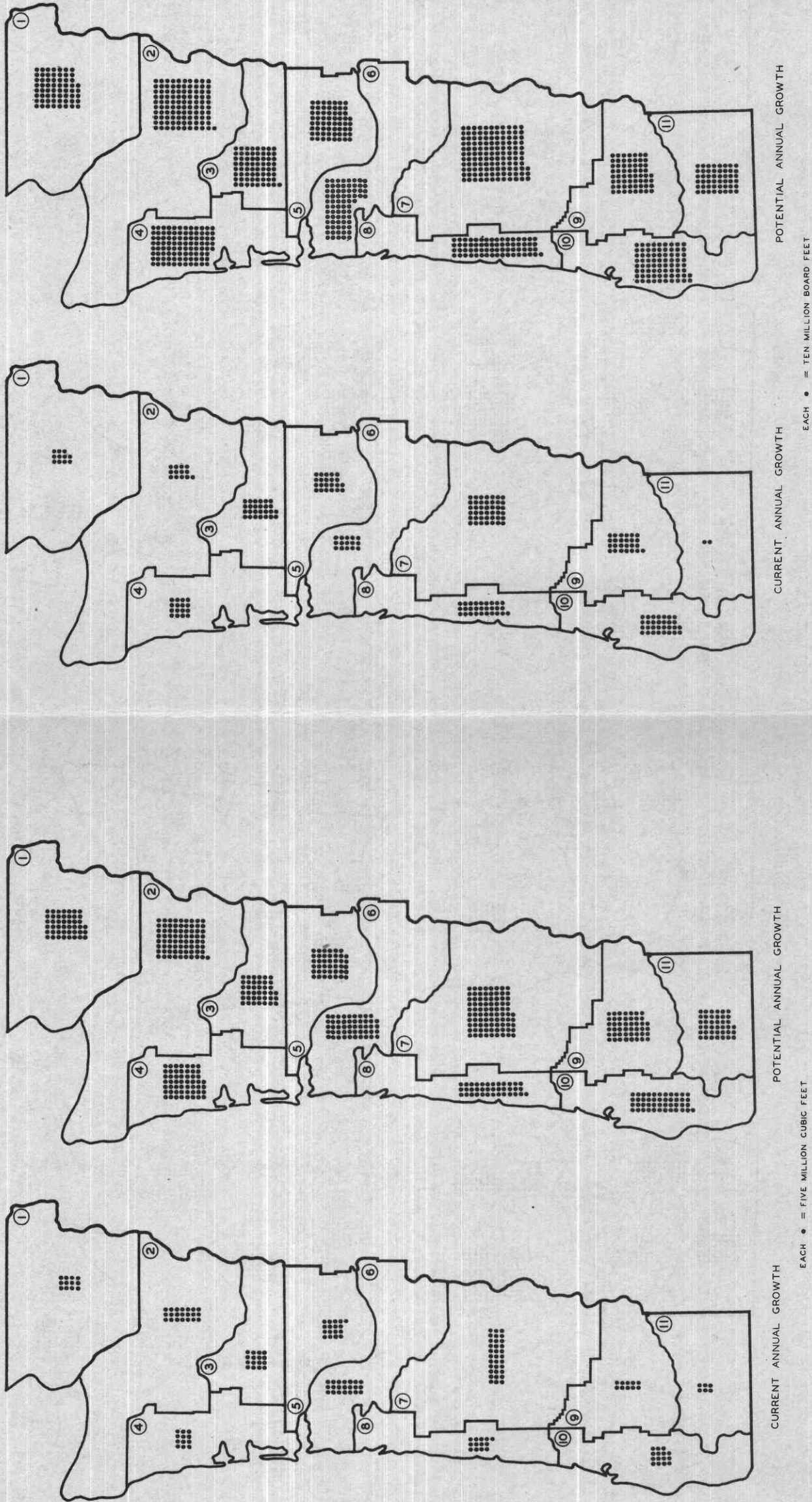
^{1/} CALCULATED BY ESTIMATING VOLUME IN 32-FOOT LOGS TO 12-INCH TOP, BY SCRIBNER RULE.

FOREST GROWTH IN THE DOUGLAS FIR REGION FROM GROWTH PHASE OF FOREST SURVEY

FIG. 2 COMPARISON OF CURRENT AND POTENTIAL CONIFEROUS GROWTH
DATA FROM TABLES 13 AND 16

GROWTH IN BOARD FEET

GROWTH IN CUBIC FEET



GROWTH IN CUBIC FEET IS SHOWN FOR ALL TREES 3.6 INCHES OR MORE IN D.B.H. GROWTH IN BOARD FEET IS SHOWN FOR ALL TREES 15.6 INCHES OR MORE IN D.B.H. ESTIMATED IN 32-FOOT LOGS TO 12-INCH TOP, SCRIBNER RULE.