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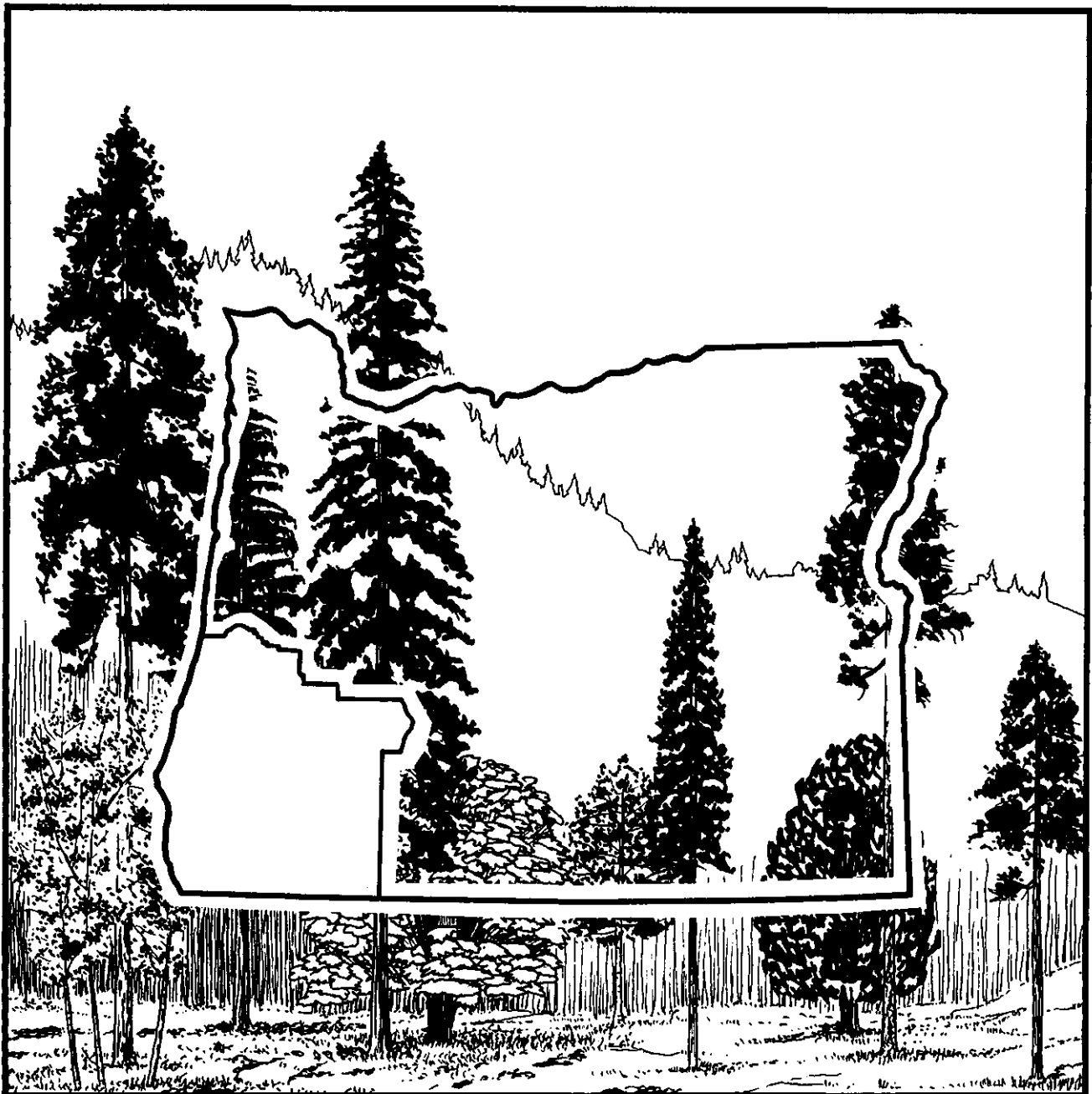
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Timber Resource Statistics for Non- Federal Forest Land in Southwest Oregon

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ABSTRACT

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This report summarizes a 1985 timber resource inventory of the non-Federal forest land in the five counties (Coos, Curry, Douglas, Jackson, and Josephine) in southwest Oregon. Detailed tables of forest area, timber volume, growth, mortality, and harvest are presented.

KEYWORDS: Forest surveys, statistics (forest), timber resources, resources (forest), Oregon (southwest).

SUMMARY

The southwest Oregon resource area totals 8,185,024 acres, of which non-Federal forest land totals 2,896,000 acres. An estimated 2,583,000 acres are classified as non-Federal timberland. The non-Federal timberland has an estimated 6.7 billion cubic feet of standing timber, and 64 percent of this volume is owned by forest industry.

PREFACE

Forest Inventory and Analysis (formerly Forest Survey) is a nationwide project of the USDA Forest Service authorized by the Forest and Rangeland Renewable Resources Research Act of 1978. Work units of the project, located at Forest Service research and experiment stations, conduct forest resource inventories throughout the 50 States. The Pacific Northwest Research Station at Portland, Oregon, is responsible for inventories in Alaska, California, Hawaii, Oregon, and Washington.

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INTRODUCTION

This report presents statistics from the latest inventory of non-Federal timber resources for the five counties (Coos, Curry, Douglas, Jackson, and Josephine) in southwest Oregon. The southwest Oregon area was first inventoried in 1932-33; subsequent inventories were taken in 1947-49, 1962, and 1973-74.

Field data for all non-Federal forest lands were collected in the summer of 1985 by the Forest Inventory and Analysis Work Unit (FIA) of the Pacific Northwest Research Station. Data for the Federal timber resources--National Forest (U.S. Department of Agriculture, Forest Service) and Bureau of Land Management (U.S. Department of the Interior)--will be presented, with the non-Federal data, in a later report.

Scientific names of trees (Little 1979) are listed on page 8 of this report. See "Terminology" for definitions of terms used in this report.

INVENTORY PROCEDURES

For all non-Federal lands, the sampling design was double sampling for stratification (Cochran 1963). Owner group, major land classes (timberland, other forest, nonforest), and forest condition classes (stage of development, major type, broad stocking class) were identified on 8,240 photo points. This photo sample was subsampled with a grid of 511 field plots established in 1961-62 and remeasured in 1973-74. In these inventories, a cluster of 10 variable radius points distributed over about 1 acre was established at each timberland location.

In 1983, a sample of these 10-point plots was remeasured to provide data on growth and mortality. These data were used to project tree diameters and heights on 36 undisturbed hardwood plots that were not remeasured for the current inventory. All other timberland locations were revisited in 1985, and a new cluster of five points sampling about 8 acres was established. The field plots were the basis for estimates of timber volume, growth, mortality, and area attributes such as forest type, site class, and stand-size class.

RELIABILITY OF INVENTORY DATA

All area and volume statistics for non-Federal forested areas are based on sampling and are subject to sampling error. Confidence intervals (68-percent probability) for the estimated timberland area, cubic-foot volume, and gross annual cubic-foot growth by owner class are as follows:

<u>Owner</u>	<u>Timberland area</u>	<u>Net volume</u>	<u>Gross annual growth</u>
	(Thousand acres)	(Million cubic feet)	
Other public	163 ± 11	674 ± 114	17 ± 3
Forest industry :			
With mills	1,386 ± 43	3,367 ± 279	143 ± 10
Without mills	257 ± 38	922 ± 190	35 ± 7
Farmer and			
miscellaneous private	777 ± 41	1,710 ± 121	81 ± 6
All owners	2,583 ± 45	6,672 ± 321	276 ± 12

Confidence intervals are quantitative expressions of the reliability of the timberland area, volume, and growth statistics. The above tabulation, for instance, indicates a two-in-three (68-percent) chance that the timberland area for all owners is within the range of 2,583,000 ± 45,000 (2,538,000 to 2,628,000) acres.

Confidence intervals vary by both the size of the estimate and the variance of the item being estimated. If variance is assumed constant, confidence intervals can be approximated for estimates of various sizes. The confidence interval guides that follow are based on the assumption that an average relation exists between variance and the size of the estimates, and thus they provide only an approximation of the reliability of individual estimates.

The following tabulations approximate confidence bounds for table cells of various sizes in this report.

<u>Timberland area</u> (Thousand acres)	<u>Confidence interval</u>	
	<u>By owner</u>	<u>By type or class</u>
1,000	+ 34	+ 65
800	+ 31	+ 58
660	+ 26	+ 51
400	+ 21	+ 43
200	+ 15	+ 31
100	+ 10	+ 23
50	+ 7	+ 17
25	+ 5	+ 12
15	+ 4	+ 10
10	+ 3	+ 8

<u>Growing stock volume and confidence interval</u> (Million cubic feet)	<u>Gross growth and confidence interval</u> (Thousand cubic feet)
6,000 + 343	200,000 + 12,102
4,000 + 273	100,000 + 7,808
2,000 + 185	50,000 + 5,038
1,000 + 125	25,000 + 3,250
800 + 110	15,000 + 2,353
600 + 93	10,000 + 1,821
400 + 74	5,000 + 1,175
200 + 50	1,000 + 425
100 + 34	500 + 274
50 + 23	100 + 99
25 + 15	
15 + 12	
10 + 9	
5 + 5	

Actual confidence intervals have been calculated for the tabular data in this report; they are available on request from the Forest Inventory and Analysis Research Work Unit, Forestry Sciences Laboratory, P.O. Box 3890, Portland, Oregon 97208.

TERMINOLOGY

Bureau of Land Management lands--Federal lands administered by the Bureau of Land Management, U.S. Department of the Interior.

Chaparral--Areas covered with heavily branched dwarf trees or shrubs, usually evergreen, the crown canopy of which at maturity usually covers more than 50 percent of the ground. The principal genera are Arctostaphylos, Baccharis, Ceanothus, Cercocarpus, and Garrya.

Class of timber--A classification of trees as growing stock, cull, and salvable dead. Growing-stock trees are divided into pole timber and saw timber trees.

County and municipal lands--Lands owned by county and other local public agencies.

Cull trees--Live trees of noncommercial species, or live trees of commercial species that are more than 75 percent defective and are unlikely to become growing stock.

Cull trees, rotten--Cull trees with defect caused primarily by rot.

Cull trees, sound--Trees of noncommercial species or cull trees of commercial species with defect caused primarily by poor form and roughness.

Diameter class--A classification of trees based on diameter outside the bark measured at breast height, 4-1/2 feet above the ground. D.b.h. is the common abbreviation for "diameter at breast height."

Farmer--Lands owned by an individual or corporate owner who produces agricultural products but does not meet the definition of a forest industry.

Forest industry lands--

With mills: lands owned by companies or individuals that operate wood-using plants.

Without mills: lands owned by companies or individuals that manage forests for timber production but do not operate mills.

Forest land--Land at least 10 percent stocked by live trees or land formerly having such tree cover and not currently developed for nonforest use.

Forest land, reserved--Forest land withdrawn from timber production through statute or ordinance. Included are National, State, and county parks; and other reserved lands.

Forest types--Stands with 50-percent or more stocking in live conifer trees classed as softwood types; stands with a majority of stocking in live hardwood trees classed as hardwood types. The individual forest type is determined by plurality of stocking by species of live softwood or hardwood trees.

Gross annual growth--The increase in volume of trees during a specified year. Components of gross annual growth of trees: (a) the increment in sound volume of trees alive at the beginning of a specified year and surviving to the year's end, plus (b) the sound volume of trees reaching sawtimber or poletimber size during the year.

Growing-stock trees--All live trees except cull trees .

Growing-stock volume--Net volume in cubic feet of live sawtimber and poletimber growing-stock trees from stump to a minimum 4-inch top (of central stem) outside the bark. Net volume equals gross volume less deduction for rot and missing **bole** sections.

Hardwoods--Trees that are angiosperms, usually broad leaved and deciduous .

Land area--Area reported as land by the Bureau of the Census. Total land area includes dry land and land temporarily or partially covered by water such as marshes, swamps, and river flood plains; streams, sloughs, and canals less than one-eighth mile wide; and lakes, reservoirs, and ponds less than 40 acres in area.

Land class--A classification of land by major use. The minimum area for classification is 1 acre.

Mean annual increment--A measure of the productivity of forest land in terms of the average increase in cubic-foot volume per acre per year. For a given species and site index, the average is based on the age at which the mean annual increment culminates for fully stocked stands. When productivity is calculated, nonforest inclusions of less than 1 acre are excluded.

Miscellaneous Federal lands--Federal lands other than lands administered by the Forest Service or the Bureau of Land Management.

Miscellaneous private owners--All private owners not otherwise **classified** .

Mortality--Volume of sound wood in trees dying from natural causes during a specified period.

National Forest lands--Federal lands that have been designated by Executive order or statute as National Forest or purchase units and other lands under the administration of the Forest Service, U.S. Department of Agriculture, including experimental areas and Bankhead-Jones Title III lands.

Noncommercial species--A tree species not suitable for industrial wood products.

Non-Federal lands--Includes all land except lands owned or managed by the Forest Service, U.S. Department of Agriculture, and by the Bureau of Land Management, U.S. Department of the Interior. Includes miscellaneous Federal lands .

Nonforest land--Land that has never supported forests or was formerly forested and is currently developed for nonforest uses. Included are lands used for agricultural crops, Christmas tree farms, improved pasture, residential areas, city parks, constructed roads, operating railroads and their right-of-way clearings, powerline and pipeline clearings, streams more than 30 feet wide, and 1- to 40-acre areas of water classified by the Bureau of the Census, U.S. Department of Commerce, as land. If intermingled in forest areas, unimproved roads and other nonforest strips must be more than 120 feet wide, and clearings or other areas must be 1 acre or larger to qualify as nonforest land.

Nonstocked areas--Timberland less than 10 percent stocked with growing-stock trees .

Other forest land--Forest land incapable of producing 20 cubic feet per acre per year of industrial wood because of adverse site conditions such as sterile soils, dry climate, poor drainage, high elevation, steepness, or rockiness.

Other public lands--Lands administered by public agencies other than the Forest Service, U.S. Department of Agriculture, or the Bureau of Land Management, U.S. Department of the Interior.

Poletimber stands--Stands with a mean diameter (weighted by basal area) from 5.0 to 9.0 inches if softwood and from 5.0 to 11.0 inches if hardwood.

Poletimber trees--Live trees of commercial species at least 5.0 inches in d.b.h. but smaller than sawtimber size, and of good form and vigor.

Roundwood--Logs, bolts, or other round sections cut from trees.

Salvable dead trees--Standing or down trees of commercial species, at least 9.0 inches in d.b.h. for softwoods and at least 11.0 inches in d.b.h. for hardwoods, containing 25 percent or more sound wood volume and at least one merchantable 12-foot log if softwood or one merchantable 8-foot log if hardwood.

Sapling and seedling stands--Stands with a mean diameter (weighted by basal area) less than 5.0 inches.

Sapling and seedling trees--Live trees of commercial species less than 5.0 inches in d.b.h., with no diseases, defects, or deformities likely to prevent their becoming poletimber trees.

Saw-log portion--The bole of sawtimber trees between the stump and the saw-log top.

Sawtimber stands--Stands with a mean diameter (weighted by basal area) larger than 9.0 inches if softwood and larger than 11.0 inches if hardwood.

Sawtimber trees--Live softwood trees of commercial species at least 9.0 inches in d.b.h. and live hardwood trees of commercial species at least 11.0 inches in d.b.h. At least 25 percent of the board-foot volume in a sawtimber tree must be free from defect. Softwood trees must contain at least one 12-foot saw log with a top diameter of not less than 6 inches inside bark; hardwood trees must contain at least one 8-foot saw log with a top diameter of not less than 8 inches inside bark.

Sawtimber volume--Net volume of sawtimber trees measured in board feet. Net volume equals gross volume less deduction for rot, sweep, crook, and other defects that affect use for lumber.

Scribner rule--The ~~common~~ board-foot log rule used locally in determining volume of sawtimber. Scribner volume is estimated in terms of 32-foot logs for conifers and 16-foot logs for hardwoods.

Site class--A classification of the potential productivity of forest land in terms of mean annual increment.

Site index--A measure of the productivity of forest land in terms of the average height of dominant and codominant trees at a specified age.

Softwoods--Coniferous trees, usually evergreen, with needles or scalelike leaves.

State lands--Lands owned by States or administered by State agencies.

Timber harvest--Volume of roundwood removed from forest land for products.

Timber volume--Includes the net volume in cubic feet of poletimber and sawtimber trees and salvable dead sawtimber trees of all species, the net volume in cubic feet of cull trees of commercial species, and **gross** volume of noncommercial species. Volume is measured from stump to a minimum 4-inch top outside the bark.

Timberland--Forest land capable of producing 20 cubic feet or more per acre per year of industrial wood, and not withdrawn from timber utilization.

Timberland, reserved--Private or public land withdrawn from timber utilization through statute, ordinance, or administrative order but which otherwise qualifies as timberland.

Upper-stem portion--The bole of sawtimber trees above the saw-log top--7.0 inches outside the bark for softwoods and 9.0 inches outside the bark for hardwoods—to a minimum top diameter of 4.0 inches outside the bark, or to the point where the central stem breaks into limbs.

NAMES OF TREES

Common name

Scientific name

Softwoods:

Douglas-fir	<u>Pseudotsuga rnenziesii</u> (Mirb.) Franco
Grand fir	<u>Abies grandis</u> (Dougl. ex D. Don.) Lindl.
Incense-cedar	<u>Libocedrus decurrens</u> Torr.
Jeffrey pine	<u>Pinus jeffreyi</u> Grev. & Balf.
Knobcone pine	<u>Pinus attenuata</u> Lemm.
Lodgepole pine	<u>Pinus contorta</u> Dougl. ex Loud. var. <u>latifolia</u> ngelm.
Ponderosa pine	<u>Pinus ponderosa</u> Dougl. ex Laws.
Port-Orford-cedar	<u>Chamaecyparis lawsoniana</u> (A. Murr.) Parl.
Redwood	<u>Sequoia sempervirens</u> (D. Don) Endl.
Sitka spruce	<u>Picea sitchensis</u> (Bong.) Carr.
Sugar pine	<u>Pinus lambertiana</u> Dougl.
Western hemlock	<u>Tsuga heterophylla</u> (Raf.) Sarg.
Western redcedar	<u>Thuja plicata</u> Donn ex D. Don
White fir	<u>Abies concolor</u> (Gord. & Glend.) Lindl. ex Hildebr.

Hardwoods :

Bigleaf maple	<u>Acer macrophyllum</u> Pursh
Bitter cherry	<u>Prunus ernarginata</u> Dougl. ex Eaton
Black cottonwood	<u>Populus trichocarpa</u> Torr. & Gray
California black oak	<u>Quercus kelloggii</u> Newb.
Cal ifornia-laurel	<u>Umbellularia californica</u> (Hook. & Arn.) Nutt.
Canyon live oak	<u>Quercus chrysolepis</u> Liebm.
Giant chinkapin	<u>Castanopsis chrysophylla</u> (Dougl.) A. DC.
Oregon ash	<u>Fraxinus latifolia</u> Benth.
Oregon white oak	<u>Quercus garryana</u> Dougl. ex Hook.
Pacific madrone	<u>Arbutus menziesii</u> Pursh
Red alder	<u>Alnus rubra</u> Bong.
Tanoak	<u>Lithocarpus densiflorus</u> (Hook. & Arn.) Rehd.

TABLE 1--AREA OF NON-FEDERAL LAND BY LAND CLASS AND COUNTY, SOUTHWEST OREGON,
JANUARY 1, 1986 ^{1/} ^{2/}

LAND CLASS	COOS	CURRY	DOUGLAS	JACKSON	JOSEPHINE	ALL COUNTIES
<u>THOUSAND ACRES</u>						
FOREST LAND:						
TIMBERLAND	586	260	1,093	465	180	2,583
RESERVED TIMBERLAND	5	3	11	6	1	25
OTHER FOREST	19	15	57	143	53	287
TOTAL	609	278	1,160	614	235	2,896
NONFOREST LAND ^{3/}	167	74	404	265	90	1,000
ALL CLASSES ^{4/}	776	352	1,564	879	325	3,896

^{1/}Subject to sampling error.

^{2/}Totals may be off because of rounding.

^{3/}Includes cropland, pasture and range, swampland, industrial and urban areas, powerline clearings, railroads, and all improved roads and highways; and water as classified by Forest Inventory and Analysis standards but defined by the Bureau of the Census as land.

^{4/}Source: United States Bureau of the Census, Land and Water of the United States, 1980.

TABLE 2--AREA OF NON-FEDERAL TIMBERLAND BY OWNER AND COUNTY, SOUTHWEST OREGON,
JANUARY 1, 1986 ^{1/} ~~2/~~

OWNER	C00S	CURRY	DOUGLAS	JACKSON	JOSEPHINE	ALL COUNTIES
<u>THOUSAND ACRES</u>						
OTHER PUBLIC:						
OTHER FEDERAL	--	--	--	5	--	5
STATE	61	2	43	2	6	114
COUNTY AND MUNICIPAL	14	--	8	3	19	44
TOTAL	75	2	51	10	25	163
PRIVATE :						
FOREST INDUSTRY--						
WITH MILL	243	121	688	292	43	1,386
WITHOUT MILL	126	60	62	7	1	257
OTHER PRIVATE--						
FARMER	65	38	178	64	42	387
MISCELLANEOUS	76	39	114	92	70	391
TOTAL	510	258	1,042	455	156	2,421
ALL OWNERS	586	260	1,093	465	180	2,583

-- = none found or less than 500 acres.

^{1/}Subject to sampling error.

^{2/}Totals may be off because of rounding.

TABLE 3--AREA OF NON-FEDERAL STOCKABLE TIMBERLAND BY SITE CLASS AND OWNER, SOUTHWEST OREGON, JANUARY 1, 1986 ^{1/} ^{2/}

SITE CLASS ^{3/}	OTHER PUBLIC	FOREST INDUSTRY		FARMER AND MISCELLANEOUS PRIVATE	ALL OWNERS
		WITH MILLS	WITHOUT MILLS		
<u>CUBIC FEET</u>	- - - - -	- - - - -	- - - - -	<u>THOUSAND ACRES</u>	- - - - -
225 OR MORE	--	12	12	7	31
165 TO 224	50	345	65	107	567
120 TO 164	72	393	56	196	717
85 TO 119	25	444	95	176	740
50 TO 84	6	136	19	183	344
20 TO 49	6	37	--	95	138
ALL CLASSES	158	1,366	247	765	2,536

-- = none found or less than 500 acres.

^{1/}Subject to sampling error.

^{2/}Totals may be off because of rounding.

^{3/}Capacity for cubic-foot annual growth per acre at culmination of mean annual growth in fully stocked natural stands. The areas shown here exclude 47,000 acres of nonforest inclusions of less than 1 acre.

TABLE 4--AREA OF NON-FEDERAL TIMBERLAND BY STAND-SIZE CLASS AND OWNER, SOUTHWEST OREGON,
JANUARY 1, 1986 ^{1/} ^{2/}

STAND-SIZE CLASS	OTHER PUBLIC	FOREST INDUSTRY		FARMER AND MISCELLANEOUS PRIVATE	ALL OWNERS
		WITH MILLS	WITHOUT MILLS		
<u>THOUSAND ACRES</u>					
SAWTIMBER STANDS :					
LARGE SAWTIMBER 3/	26	104	33	2	165
SMALL SAWTIMBER 4/	54	467	65	278	865
TOTAL	80	571	98	281	1,029
POLETIMBER STANDS	46	207	72	258	583
SAPLING AND					
SEEDLING STANDS	29	563	78	207	877
NONSTOCKED AREAS	9	45	9	32	94
ALL CLASSES	163	1,386	257	777	2,583

^{1/}Subject to sampling error.

^{2/}Totals may be off because of rounding.

^{3/}Includes trees 21.0-inch d.b.h. and larger.

^{4/}Includes softwood trees 9.0- to 20.9-inch d.b.h. and hardwood trees 11.0- to 20.9-inch d.b.h.

TABLE 5--AREA OF NON-FEDERAL TIMBERLAND BY FOREST TYPE AND OWNER, SOUTHWEST OREGON,
JANUARY 1, 1986 ^{1/} ^{2/}

FOREST TYPE	OTHER PUBLIC	FOREST INDUSTRY		FARMER AND MISCELLANEOUS PRIVATE	ALL OWNERS
		WITH MILLS	WITHOUT MILLS		
THOUSAND ACRES					
DOUGLAS-FIR	123	921	104	334	1,483
INCENSE-CEDAR	--	53	--	7	60
WHITE FIR	--	40	--	5	45
WESTERN HEMLOCK	--	12	12	13	37
PORT-ORFORD-CEDAR	--	12	--	14	26
SITKA SPRUCE	--	--	15	8	23
GRAND FIR	--	6	--	17	22
WESTERN REDCEDAR	--	14	--	--	14
JEFFREY PINE	--	10	--	--	10
PONDEROSA PINE	--	9	--	--	9
SUGAR PINE	--	6	--	--	6
REDWOOD	--	--	6	--	6
RED ALDER	17	101	36	97	251
PACIFIC MADRONE	6	63	14	143	225
TANOAK	--	48	42	11	100
CALIFORNIA BLACK OAK	--	7	--	27	34
OREGON WHITE OAK	--	6	--	26	32
CANYON LIVE OAK	--	8	--	22	30
CALIFORNIA LAUREL	--	6	12	4	22
BIGLEAF MAPLE	--	--	8	--	8
GIANT CHINKAPIN	--	8	--	--	8
OTHER HARDWOODS	9	9	--	19	37
NONSTOCKED	9	45	9	32	94
ALL TYPES	163	1,386	257	777	2,583

-- = none found or less than 500 acres.

^{1/}Subject to sampling error.

^{2/}Totals may be off because of rounding.

TABLE 6--AREA OF MOW-FEDERAL RESERVED TIMBERLAND AND OTHER FOREST LAND BY LAND CLASS, FOREST TYPE, AND OWNER, SOUTHWEST OREGON, JANUARY 1, 1986 1/ 2/

LAND CLASS AND FOREST TYPE	OTHER PUBLIC	FOREST INDUSTRY		FARMER AND MISCELLANEOUS PRIVATE	ALL OWNERS
		HITH MILLS	WITHOUT MILLS		
<u>THOUSAND ACRES</u>					
TIMBERLAND, RESERVED:					
DOUGLAS-FIR	6	--	--	1	7
LOGEPOLE PINE	6	--	--	--	6
SITKA SPRUCE	4	--	--	--	4
TRUE FIRS	4	--	--	--	4
PONDEROSA PINE	3	--	--	--	3
RED ALDER	1	--	--	--	1
ALL TIMBERLAND, RESERVED	25	--	--	1	25
OTHER FOREST LAND:					
DOUGLAS-FIR	--	--	--	11	11
LOGEPOLE PINE	2	--	--	--	2
OREGON WHITE OAK	6	9	--	149	164
CALIFORNIA BLACK OAK	--	--	--	31	31
PACIFIC MADRONE	6	--	--	23	29
CHAPARRAL	2	--	--	--	2
OAK/MADRONE	1	--	--	--	1
UNCLASSIFIED	--	17	--	30	47
ALL OTHER FOREST LAND 3/	17	26	--	244	287

-- = none found or less than 500 acres.

1/Subject to sampling error.

2/Totals may be off because of rounding.

3/Includes 5,000 acres of reserved areas.

TABLE 7--VOLUME OF TIMBER ON NON-FEDERAL TIMBERLAND BY CLASS OF
TIMBER AND BY SOFTWOODS AND HARDWOODS, SOUTHWEST OREGON,
JANUARY 1, 1986 ^{1/} ~~2/~~

CLASS OF TIMBER	SOFTWOODS	HARDWOODS	ALL SPECIES
<u>MILLION CUBIC FEET</u>			
SAWTIMBER TREES:			
SAW-LOG PORTION	4,492	718	5,210
UPPER-STEM PORTION	160	240	400
TOTAL	4,652	958	5,610
POLETIMBER TREES	504	559	1,062
ALL GROWING STOCK	5,156	1,516	6,672
SOUND CULL TREES	32	101	133
ROTTEN CULL TREES	34	109	142
SALVABLE DEAD TREES	119	3	122
ALL TIMBER	5,340	1,729	7,069

^{1/}Subject to sampling error.

^{2/}Totals may be off because of rounding.

TABLE 8--VOLUME OF GROWING STOCK AND SAVTIMBER ON NON-FEDERAL TIMBERLAND BY OWNER AND BY
SOFTWOODS AND HARDWOODS, SOUTHWEST OREGON, JANUARY 1, 1986 1/ 2/

OWNER	AVERAGE VOLUME	SOFTWOODS	HARDWOODS	ALL SPECIES
	<u>CUBIC FEET PER ACRE</u>	- - - - -	<u>MILLION CUBIC FEET</u>	- - - - -
GROWING STOCK: <u>3/</u>				
OTHER PUBLIC	4,135	551	123	674
FOREST INDUSTRY--				
WITH MILLS	2,429	2,797	570	3,367
WITHOUT MILLS	3,588	603	319	922
FARMER AND MISCELLANEOUS				
PRIVATE	2,201	1,204	505	1,710
ALL OWNERS	2,583	5,156	1,516	6,672
	<u>BOARD FEET PER ACRE</u>	- - - - -	<u>MILLION BOARD FEET</u>	- - - - -
SAWTIMBER (SCRIBNER RULE): <u>4/</u>				
OTHER PUBLIC	17,982	2,437	495	2,931
FOREST INDUSTRY--				
WITH MILLS	8,592	10,672	1,236	11,909
WITHOUT MILLS	12,113	2,306	507	3,113
FARMER AND MISCELLANEOUS				
PRIVATE	5,789	3,710	788	4,498
ALL OWNERS	8,691	19,124	3,326	22,450

1/Subject to sampling error.

2/Totals may be off because of rounding.

3/Includes trees 5.0-inch d.b.h. and larger.

4/Includes softwood trees 9.0-inch d.b.h. and larger and hardwood trees 11.0-inch d.b.h. and larger.

TABLE 9--VOLUME OF GROWING STOCK AND SAWTIMBER ON WON-FEDERAL TIMBERLAND BY OWNER AND COUNTY ,
SOUTHWEST OREGON, JANUARY 1, 1986 1/ 2/

OWNER	COOS	CURRY	DOUGLAS	JACKSON	JOSEPHINE	ALL COUNTIES
<u>MILLION CUBIC FEET</u>						
GROWING STOCK: <u>3/</u>						
OTHER PUBLIC	343	4	249	22	56	674
FOREST INDUSTRY--						
WITH MILL	674	289	1,661	654	90	3,367
WITHOUT MILL	522	199	160	37	4	922
FARMER AND MISCELLANEOUS						
PRIVATE	330	162	673	313	231	1,710
ALL OWNERS	1,869	654	2,743	1,026	381	6,672
<u>MILLION BOARD FEET</u>						
SAWTIMBER (SCRIBNER RULE): <u>4/</u>						
OTHER PUBLIC	1,595	18	1,084	66	168	2,931
FOREST INDUSTRY--						
WITH MILL	2,407	976	6,321	1,944	261	11,909
WITHOUT MILL	1,914	677	451	63	7	3,113
FARMER AND MISCELLANEOUS						
PRIVATE	831	397	1,951	748	572	4,498
ALL OWNERS	6,747	2,068	9,807	2,821	1,008	22,450

1/Subject to sampling error.

2/Totals may be off because of rounding.

3/Includes trees 5.0-inch d.b.h. and larger.

4/Includes softwoods trees 9.0-inch d.b.h. and larger and hardwood trees 11.0-inch d.b.h. and larger.

TABLE 10--VOLUME OF GROWING STOCK ON NON-FEDERAL TIMBERLAND BY SPECIES AND OWNER, SOUTHWEST OREGON, JANUARY 1, 1986 ± 2/

SPECIES	OTHER PUBLIC	FOREST INDUSTRY		FARMER AND MISCELLANEOUS PRIVATE	ALL OWNERS
		WITH MILLS	WITHOUT MILLS		
MILLION CUBIC FEET					
SOFTWOODS :					
DOUGLAS-FIR	494	1,941	395	854	3,685
WESTERN HEMLOCK	23	263	46	50	382
GRAND FIR	--	158	24	80	261
WESTERN REDCEDAR	1	86	29	27	143
WHITE FIR	8	108	--	22	138
INCENSE-CEDAR	5	82	3	39	128
PONDEROSA PINE	3	58	--	62	123
SITKA SPRUCE	10	16	63	33	122
SUGAR PINE	--	58	--	12	71
PORT-ORFORD-CEDAR	6	14	19	24	63
REDWOOD	--	--	22	--	22
JEFFREY PINE	--	12	--	--	12
KNOBCONE PINE	--	--	2	--	2
LOGDGEPOLE PINE	--	--	--	2	2
TOTAL	551	2,797	603	1,204	5,156
HARDWOODS :					
RED ALDER	93	272	139	194	697
PACIFIC MADRONE	10	103	35	127	274
BIGLEAF MAPLE	4	59	34	22	118
CALIFORNIA BLACK OAK	3	27	3	77	110
CALIFORNIA-LAUREL	3	38	37	15	93
TANOAK	1	13	56	12	81
OREGON WHITE OAK	8	24	--	28	60
GIANT CHINKAPIN	--	26	13	6	45
OREGON ASH	--	6	--	14	20
CANYON LIVE OAK	1	1	3	10	15
BITTER CHERRY	--	--	--	2	2
BLACK COTTONWOOD	--	--	--	1	1
TOTAL	123	570	319	505	1,516
ALL SPECIES	674	3,367	922	1,710	6,672

-- = none found or less than 500,000 cubic feet.

1/Subject to sampling error.

2/Totals may be off because of rounding.

TABLE 11--VOLUME OF SAWTIMBER ON NON-FEDERAL TIMBERLAND BY SPECIES AND OWNER, SOUTHWEST OREGON, JANUARY 1, 1986 ^{1/} ~~2/~~

SPECIES	OTHER PUBLIC	FOREST INDUSTRY		FARMER AND MISCELLANEOUS PRIVATE	ALL OWNERS
		WITH MILLS	WITHOUT MILLS		
MILLION BOARD FEET, SCRIBNER RULE					
SOFTWOODS :					
DOUGLAS-FIR	2,266	7,521	1,471	2,723	13,980
WESTERN HEMLOCK	62	1,075	189	157	1,483
GRAND FIR	--	554	95	240	888
WESTERN REDCEDAR	2	336	127	93	558
WHITE FIR	27	299	--	59	384
INCENSE-CEDAR	18	208	4	58	288
PONDEROSA PINE	10	210	--	174	395
SITKA SPRUCE	36	85	304	114	539
SUGAR PINE	--	301	--	40	341
PORT-ORFORD-CEDAR	16	38	37	43	134
REDWOOD	--	--	76	--	76
JEFFREY PINE	--	46	--	--	46
KNOBCONE PINE	--	--	4	--	4
LODGEPOLE PINE	--	--	--	8	8
TOTAL	2,437	10,672	2,306	3,710	19,124
HARDWOODS :					
RED ALDER	439	735	396	302	1,872
PACIFIC MADRONE	15	152	44	179	390
BALSAM LEAF MAPLE	8	108	55	51	222
CALIFORNIA BLACK OAK	4	42	2	120	168
CALIFORNIA-LAUREL	10	113	131	33	287
TAMOAK	--	28	150	32	210
OREGON WHITE OAK	18	45	--	33	96
GIANT CHINKAPIN	--	10	26	6	42
OREGON ASH	--	3	--	22	25
CANYON LIVE OAK	--	--	2	5	8
BLACK COTTONWOOD	--	--	--	5	5
TOTAL	495	1,236	807	7aa	3,326
ALL SPECIES	2,931	11,909	3,113	4,498	22,450

-- = none found or less than 500,000 board feet.

^{1/}Subject to sampling error.

^{2/}Totals may be off because of rounding.

TABLE 12--VOLUME OF GROWING STOCK ON NON-FEDERAL TIMBERLAND BY SPECIES AND DIAMETER CLASS, SOUTHWEST OREGON,
JANUARY 1, 1986 ^{1/} _{2/}

SPECIES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)										
	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 AND LARGER	ALL CLASSES
	MILLION CUBIC FEET										
SOFTWOODS:											
DOUGLAS-FIR	121	220	348	365	373	327	257	219	600	555	3,685
WESTERN HEMLOCK	20	20	33	31	41	37	35	16	71	78	382
GRAND FIR	11	30	30	41	27	16	12	20	50	24	261
WESTERN REDCEDAR	--	6	6	8	9	12	7	1	11	83	143
WHITE FIR	7	12	10	21	10	14	13	19	26	6	138
INCENSE CEDAR	8	12	13	6	8	10	5	10	28	29	128
PONDEROSA PINE	4	8	10	13	13	12	12	19	19	7	123
SITKA SPRUCE	2	7	2	5	--	10	4	8	25	60	122
SUGAR PINE	2	1	2	3	3	1	3	3	12	41	71
PORT-ORFORD CEDAR	7	6	9	7	4	10	6	1	9	5	63
REDWOOD	--	--	--	--	2	--	3	4	5	7	22
JEFFREY PINE	--	--	--	--	2	3	2	2	2	2	12
KNOBCONE PINE	1	--	--	2	--	--	--	--	--	--	2
LOGEPOLE PINE	--	--	--	1	--	--	1	--	--	--	2
TOTAL	183	321	464	504	490	457	361	322	858	1,196	5,156
HARDWOODS:											
RED ALDER	38	125	117	135	72	81	69	21	38	2	697
PACIFIC MADRONE	40	42	45	28	25	27	11	16	26	14	274
BIGLEAF MAPLE	8	10	9	11	11	8	9	16	20	17	118
CALIFORNIA BLACK OAK	15	5	8	11	9	10	13	12	13	14	110
CALIFORNIA LAUREL	4	4	3	15	16	5	3	3	17	23	93
TANOAK	7	7	8	6	7	4	6	8	20	9	81
OREGON WHITE OAK	5	5	5	8	15	5	5	3	6	2	60
GIANT CHINKAPIN	20	9	3	3	4	2	1	2	--	--	45
OREGON ASH	2	3	--	2	3	2	3	1	3	--	20
CANYON LIVE OAK	4	3	3	--	3	--	1	--	--	--	15
BITTER CHERRY	--	2	--	--	--	--	--	--	--	--	2
BLACK COTTONWOOD	--	--	--	--	--	--	--	--	--	1	1
TOTAL	141	216	201	219	166	144	121	82	144	82	1,516
ALL SPECIES	324	537	665	723	656	602	482	404	1,002	1,279	6,672

-- = none found or less than 500,000 cubic feet.

^{1/}Subject to sampling error.

_{2/}Totals may be off because of rounding.

TABLE 13--VOLUME OF SAWTIMBER ON NON-FEDERAL TIMBERLAND BY SPECIES AND DIAMETER CLASS, SOUTHWEST OREGON, JANUARY 1, 1986 1/ 2/

SPECIES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)								
	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 AND LARGER	ALL CLASSES
MILLION BOARD FEET, SCRIBNER RULE									
SOFTWOODS:									
DOUGLAS-FIR	830	1,118	1,332	1,252	1,048	970	2,872	4,558	13,980
WESTERN HEMLOCK	87	106	153	144	154	68	348	423	1,483
GRAND FIR	75	134	102	61	54	92	244	126	888
WESTERN REDCEDAR	12	23	30	42	27	7	41	376	558
WHITE FIR	20	54	30	43	42	64	106	25	384
INCENSE-CEDAR	19	11	15	24	13	27	88	91	288
PONDEROSA PINE	18	33	34	58	49	80	85	38	395
SITKA SPRUCE	4	17	--	35	13	36	100	325	539
SUGAR PINE	3	7	9	2	10	13	58	237	341
PORT-ORFORD-CEDAR	15	15	9	28	17	2	32	17	134
REDWOOD	1	1	4	--	10	14	17	30	76
JEFFREY PINE	--	--	3	10	7	7	9	10	46
KNOBCOKE PINE	--	4	--	--	--	--	--	--	4
LODGEPOLE PINE	--	3	--	--	5	--	--	--	8
TOTAL	1,084	1,525	1,721	1,700	1,448	1,380	4,009	6,257	19,124
HARDWOODS:									
RED ALDER	--	490	323	395	347	109	202	7	1,872
PACIFIC MADRONE	--	81	73	76	29	41	63	26	390
BIGLEAF MAPLE	--	34	27	17	26	49	43	26	222
CALIFORNIA BLACK OAK	--	20	14	14	28	26	29	37	168
CALIFORNIA-LAUREL	--	42	50	18	8	10	63	96	287
TANOAK	--	15	20	12	20	30	72	41	210
OREGON WHITE OAK	--	18	34	12	11	7	10	4	96
GIANT CHINKAPIN	--	9	12	9	6	8	--	--	42
OREGON ASH	--	4	6	5	7	1	3	--	25
CANYON LIVE OAK	--	--	5	--	2	--	--	--	8
BLACK COTTONWOOD	--	--	--	--	--	--	--	5	5
TOTAL	--	714	564	558	483	280	484	242	3,326
ALL SPECIES	1,084	2,238	2,285	2,258	1,932	1,660	4,494	6,499	22,450

-- = none found or less than 500,000 board feet.

1/Subject to sampling error.

2/Totals may be off because of rounding.

TABLE 14--GROSS ANNUAL GROWTH OF GROWING STOCK ON NON-FEDERAL TIMBERLAND BY OWNER AND BY
SOFTWOODS AND HARDWOODS, SOUTHWEST OREGON, 1985 ~~1/~~ ^{2/}

OWNER	AVERAGE VOLUME	SOFTWOODS	HARDWOODS	ALL SPECIES
	<u>CUBIC FEET PER ACRE</u>	- - - - - <u>THOUSAND CUBIC FEET</u> - - - - -		
OTHER PUBLIC	103	14,090	2,695	16,785
FOREST INDUSTRY:				
WITH MILLS	103	116,181	26,340	142,521
WITHOUT MILLS	137	23,448	11,908	35,356
FARMER AND MISCELLANEOUS				
PRIVATE	104	58,732	22,218	80,949
ALL OWNERS	107	212,450	63,161	275,611

^{1/}Subject to sampling error.

^{2/}Totals may be off because of rounding.

TABLE 15--GROSS ANNUAL GROWTH OF GROWING STOCK ON NON-FEDERAL TIMBERLAND BY SPECIES AND OWNER, SOUTHWEST OREGON, 1985 1/ 2/

SPECIES	OTHER PUBLIC	FOREST INDUSTRY		FARMER AND MISCELLANEOUS PRIVATE	ALL OWNERS
		WITH MILLS	WITHOUT MILLS		
THOUSAND CUBIC FEET					
SOFTWOODS:					
DOUGLAS-FIR	11,654	85,009	15,280	41,100	153,044
WESTERN HEMLOCK	1,412	11,024	2,016	3,140	17,591
GRAND FIR	--	8,003	1,202	4,442	13,646
WESTERN REDCEDAR	44	1,722	548	1,431	3,746
WHITE FIR	237	4,288	--	841	5,367
INCENSE-CEDAR	74	2,500	124	1,994	4,691
PONDEROSA PINE	61	1,601	--	1,976	3,638
SITKA SPRUCE	391	315	2,727	2,204	5,637
SUGAR PINE	9	880	--	325	1,214
PORT-ORFORD-CEDAR	208	631	759	1,175	2,772
REDWOOD	--	--	604	--	604
JEFFREY PINE	--	209	--	--	209
KNOBCONE PINE	--	--	189	--	189
LOGPOLE PINE	--	--	--	103	103
TOTAL	14,090	116,181	23,448	58,732	212,450
HARDWOODS :					
RED ALDER	1,979	13,780	6,186	10,527	32,472
PACIFIC MADRONE	284	4,930	782	6,528	12,524
BIGLEAF MAPLE	49	1,710	1,011	505	3,276
CALIFORNIA BLACK OAK	67	1,271	63	1,612	3,013
CALIFORNIA-LAUREL	116	1,314	1,532	634	3,596
TANOAK	31	666	1,765	595	3,056
OREGON WHITE OAK	159	489	--	776	1,424
GIANT CHINKAPIN	--	1,968	494	217	2,679
OREGON ASH	--	167	--	365	532
CANYON LIVE OAK	10	46	74	346	476
BITTER CHERRY	--	--	--	91	97
BLACK COTTONWOOD	--	--	--	22	22
TOTAL	2,695	26,340	11,908	22,218	63,161
ALL SPECIES	16,785	142,521	35,356	80,949	275,611

-- = none found or less than 500 cubic feet.

1/Subject to sampling error.

2/Totals may be off because of rounding.

TABLE 16--AVERAGE ANNUAL MORTALITY OF GROWING STOCK ON NON-FEDERAL TIMBERLAND BY SPECIES AND OWNER, SOUTHWEST OREGON, 1985 ^{1/} ~~2/~~

SPECIES	OTHER PUBLIC	FOREST INDUSTRY		FARMER AND MISCELLANEOUS PRIVATE	ALL OWNERS
		WITH MILLS	WITHOUT MILLS		
<u>THOUSAND CUBIC FEET</u>					
SOFTWOODS :					
DOUGLAS-FIR	3,763	5,523	1,164	2,482	12,931
WESTERN HEMLOCK	69	790	143	152	1,154
GRAND FIR	--	454	65	229	747
WESTERN REDCEDAR	4	237	73	76	390
WHITE FIR	29	1,056	--	66	1,151
INCENSE-CEDAR	14	270	6	116	407
PONDEROSA PINE	8	246	--	169	423
SITKA SPRUCE	27	45	174	102	348
SUGAR PINE	2	151	--	36	189
PORT-ORFORD-CEDAR	195	457	621	751	2,025
REDWOOD	--	--	74	--	74
JEFFREY PINE	--	883	--	--	883
KNOBCONE PINE	--	--	7	--	7
LOGEPOLE PINE	--	--	--	6	6
TOTAL	4,111	10,113	2,326	4,186	20,736
HARDWOODS :					
RED ALDER	736	2,163	1,103	1,540	5,543
PACIFIC MADRONE	74	799	268	993	2,134
BIGLEAF MAPLE	30	442	266	165	904
CALIFORNIA BLACK OAK	25	209	21	575	830
CALIFORNIA-LAUREL	27	298	273	111	708
TANOAK	6	104	434	91	634
OREGON WHITE OAK	64	191	--	219	473
GIANT CHINKAPIN	--	206	105	44	355
OREGON ASH	--	50	--	110	160
CANYON LIVE OAK	6	10	26	74	116
BITTER CHERRY	--	--	--	16	16
BLACK COTTONWOOD	--	--	--	7	7
TOTAL	968	4,471	2,495	3,945	11,880
ALL SPECIES	5,079	14,584	4,821	8,131	32,615

-- = none found or less than 500 cubic feet.

^{1/}Subject to sampling error.

^{2/}Totals may be off because of rounding.

TABLE 17--TIMBER HARVEST BY OWNER, SOUTHWEST OREGON, 1962-85

YEAR	NATIONAL FOREST	OTHER PUBLIC	PRIVATE	ALL OWNERS
THOUSAND BOARD FEET, SCRIBNER RULE .				
1962	705,300	646,400	1,570,415	2,922,115
1963	821,300	782,604	1,333,207	2,937,111
1964	892,000	928,852	1,462,333	3,283,185
1965	890,000	794,291	1,491,340	3,175,631
1966	763,700	748,919	1,486,372	2,998,991
1967	787,600	673,808	1,382,837	2,844,245
1968	889,052	876,179	1,471,202	3,236,433
1969	722,622	707,429	1,538,927	2,968,978
1970	608,270	623,188	1,353,710	2,585,168
1971	769,930	818,125	1,377,967	2,966,022
1972	969,799	793,719	1,405,344	3,168,862
1973	902,701	875,370	1,165,273	2,943,344
1974	699,262	690,443	1,302,454	2,692,159
1975	545,774	457,632	1,241,313	2,244,719
1976	616,120	741,326	1,144,277	2,501,723
1977	616,363	669,230	1,378,714	2,664,307
1978	803,355	539,176	1,275,700	2,618,231
1979	729,577	667,087	1,104,036	2,500,700
1980	435,070	526,557	1,107,454	2,069,081
1981	382,505	417,257	935,697	1,735,459
1982	249,689	201,019	1,159,468	1,610,176
1983	555,437	503,620	1,103,956	2,163,013
1984	561,392	582,414	1,112,083	2,255,889
1985	1,239,718	606,924	1,144,869	2,991,511

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METRIC EQUIVALENTS

1,000 acres = 404.7 hectares
1,000 cubic feet = 28.3 cubic meters
1 cubic foot per acre = 0.07 cubic meter per hectare
1 foot = 0.3048 meter
1 inch = 2.54 centimeters
1 mile = 1.609 kilometers

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This report summarizes a 1985 timber resource inventory of the non-Federal forest land in the five counties (Coos, Curry, Douglas, Jackson, and Josephine) in southwest Oregon. Detailed tables of forest area, timber volume, growth, mortality and harvest are presented.

KEYWORDS: Forest surveys, statistics (forest), timber resources, resources (forest), Oregon (southwest).

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