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Circular I

A Collection of Oregon Woods

W. I. West

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OREGON STATE COLLEGE
Corvallis

August 1949

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(Progress Report I)

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Typical specimens gathered on one of the collecting trips made through the northwestern section of Oregon during the summer of 1947.



A few of the xylarium drawers showing the arrangement of wood samples. The index file may be easily reached for reference.

FOREWORD

TREES are the foundation of Oregon's most important natural resource. The growing, harvesting, and manufacturing of forest products form the major industry of the state. It is proper that full knowledge be at hand covering every aspect of the individual trees and the groups that make up our extensive forests. Also, it is desirable for the information to be made available to educators, scientists, and the general public.

The School of Forestry cooperating with the General Research program of Oregon State College is pleased to make another contribution to the fund of information relating to our woody plants. It is expected that other projects will follow and that they too will aid in the development of a better understanding of our forests.

PAUL M. DUNN Dean of Forestry

ACKNOWLEDGMENTS

 $\mathbf{T}_{ ext{this}}$ following individuals have made valuable contributions to this collection of wood samples:

O. V. Matthews, Salem. Mr. Matthews donated several hundred samples collected in Oregon, California, and Washington over a 25-year period. He has been given recognition for his botanical findings in numerous publications.

D. N. Matthews, U. S. Forest Service, Region 1, Missoula, Montana.

Dr. W. F. McCulloch and D. D. Robinson, School of Forestry, Oregon State College, Corvallis.

Dr. P. B. Proctor and Hugh Wilcox, Oregon Forest Products Laboratory, Corvallis.

Students attending the School of Forestry, Oregon State College: J. M. Denison, R. D. Graham, D. K. Hobson, G. K. Jeffries, E. N. MacDaniels, W. A. Radcliffe, W. E. Ragland, D. S. Rogers, H. B. Smith, B. H. Underwood, and J. W. B. Wagg.

A Collection of Oregon Woods

The School of Forestry at Oregon State College has been active for many years in collecting samples of xylem tissue of those woody¹ plants representative of the commercial timber species of the United States. In 1946, a project was established to catalog existing samples and to expand the collection with particular emphasis on the trees and shrubs indigenous to the state of Oregon. The latter phase of this work has been carried on largely through a grant-in-aid received from the General Research program of Oregon State College. This report, and the term "collection" used therein, concerns only those samples in the xylarium which are from woody plants native to Oregon.

The project was initiated by Dr. P. B. Proctor.² Since July 1946 the xylarium has been under the direct supervision of the author. Numerous individuals have donated to the collection and acknow-

ledgment of their contributions has been made.

The purpose of this report is to make the existence of the Oregon State College xylarium and this particular collection known to interested individuals and agencies in the United States and Canada. At the time of writing, the collection embraces 707 samples of 181 species representing 72 genera and 31 families.

New specimens are being added continually, and subsequent reports will be issued as substantial additions are made to the collection. The contemplated collection eventually should contain diversified samples for each species representative of their geographic range of distribution. At the same time it will attempt to recognize the inherent tendency of wood to exhibit varying characteristics as influenced by growing conditions and/or injury.

The xylarium is housed in the Forestry Building on the Oregon State College campus, where this collection of samples is available for

inspection.

Purpose

The intent of such a collection is to make available authentic wood samples for scientific purposes such as:

- 1. Providing authentic "check samples" for identification purposes.
- 2. Furnishing material for more complete descriptions of the comparative anatomy of commercial species. (Second-growth timber of the western conifers should be of special interest.)

¹The term "woody" refers to those plants belonging to the subdivisions Angiospermae (Order-Dicotyledon) and Gymnospermae.
²Head of the Department of Forest Products, 1945-1947, now Technical Director of the Oregon Forest Products Laboratory, Corvallis, Oregon.

- 3. Preparing descriptions of the comparative anatomy of lesser-known species, particularly the shrubs. This information will be of value for taxonomic, histologic, and morphologic studies.
- 4. Supplying samples for investigation of various chemical and physical properties of species.

The value of this collection already has been demonstrated. It has been of particular assistance, for example, in the identification of samples submitted to the School of Forestry and in supplying material for various studies having a bearing on technical problems relative to wood-using industries.

Small blocks, approximately one-inch cubes, from the library samples will be made available for scientific studies. A statement of interests and intended use is required when requests are made for

sample materials.

Collection

The over-all collection plan is to obtain authentic wood samples with the following points in mind:

- 1. To collect samples of all native woody plants found within the boundaries of Oregon.
- 2. To collect samples representative of geographical ranges of each species.
- 3. To collect samples from specimens growing under a variety of conditions, such as soil, altitude, exposure, slope, and forest types.
- 4. To collect samples from specimens which are typical of various ages; of rates of growth; of position in the plant as to stem, root, or limb; of defects; and of abnormalities and other characteristics.

In the past, collections have been made at random throughout the state. The present collection is regarded as a nucleus for futher expansion. Within the last three years, over 360 samples have been supplied by members of the school staff and selected students who collected in various parts of the state during periods of summer employment. The intention is to fill in samples according to the abovementioned plan.

It has been the policy to collect herbarium material with each specimen, where possible, for identification; however, material for all specimens is not retained owing to storage difficulties. Herbarium material for any specimen whose identity might be questioned is kept

on file until positive identification is assured.

Organization

Identification of specimens has been according to recognized taxonomic methods employing botanical and dendrological references. The reference "A Manual of the Higher Plants of Oregon," by Morton E. Peck, Sc.D., emeritus professor of biology, Willamette University, Salem, Oregon, has been of particular value in this work. Also, the College Herbarium, maintained in the Botany Department under the direction of Dr. Helen M. Gilkey, serves as a cross-check on identification

In the main, the United States Forest Service Check List, 1944, has been used in the assignment of scientific names, supplemented by Standardized Plant Names, 1942, issued by the American Joint Committee on Horticultural Nomenclature.

Wood specimens are reduced to 1 by 3 by 5 inch blocks for storage in the xylarium, or, as in the case of shrubs and small trees, left in the round. Where possible, log bolts are cut to produce samples that include sapwood and heartwood and a radial distribution of tissue from pith to bark. As a result, several pieces from each specimen or sample are incorporated in the collection.

Individual samples are given a serial number that indicates their position in the xylarium and by which they are identified in the card files. The samples are cross indexed through a card-filing system according to serial number, family, genus, and common name. All the information supplied by the collector is recorded on each of these cards, following identification. The School of Forestry uses a prepared form for recording data in the field as the specimens are collected.

Complete plant descriptions and silvical data are not on record for many of the samples that were collected prior to or in the early stages of the project. The more recent samples have been adequately described.

List of wood samples in the collection

The samples are divided into two groups on the basis of the sub-divisions: Angiospermae and Gymnospermae. Under each sub-division the species are arranged alphabetically by genera. The scientific name is given for each species followed by the reference used in parenthesis, such as: (FSCL) for the Forest Service Check List, 1944; (SPN) for the Standarized Plant Names, 1942; (Peck) for Morton E. Peck; and (Wolf) for C. B. Wolf, "The New World Cypresses, Volume I." The type of plant, as to tree or shrub, also is given.

Each sample under a species is designated by its assigned serial number, the county where collected, and the general position the sample occupied in the plant as to stem, root, or limb. A few additional characteristics pertinent to the sample also are included when evident. such as: sap and/or heartwood, pith, compression wood, type of grain (curly, wayy, fiddleback, quilted, spiral, blister, etc.), rate of growth if significant, defects, and others. Sapwood and heartwood have been indicated only when the zones are clearly defined. Insect damage has been noted if present: in some instances the wood samples were collected from windfalls or felled and bucked timber already on the ground. Where samples have been cut from different positions in a plant or when samples from the same plant exhibit different characteristics, the same serial number has been assigned but differentiation is through addition of a capital letter, i.e., 1161 and 1161A. In the case of the Angiosperms, the pith feature is given only for tree species, since the shrubs are of such stem diameter as generally to include this tissue

When compression wood is present, an attempt has been made to locate the tissue as to sapwood or heartwood or both. If the tissue is common to both zones, the description has been written "Sap and heartwood. Compression wood." On the other hand, should the tissue be confined to one or the other of the two zones, the description has been written "Sap-compression wood and heartwood" or "Sapwood and heart-compression wood."

A map of the counties of Oregon is included for use of the reader. Although the point of collection is indicated by counties in the following list, specific geographic descriptions are noted on the file cards. See pages 16-17.

I. ANGIOSPERMAE

| Acer circi | natum Pursh.— | (FSCL). | Shrub. |
|------------|----------------|-------------|------------------------------|
| 207 | Linn | Stem. | |
| 437 | Polk | Stem. | |
| 588 | Polk | Stem. | |
| 601 | Tillamook | Stem. | |
| 684 | Multnomah | Stem. | |
| | | | |
| 690 | Douglas | Stem. | |
| 710 | Coos | Stem. | |
| 760 | Jackson | Stem. | |
| 1133 | Marion | Stem. | |
| . 1134 | Tillamook | Stem. | |
| 1135 | Marion | Stem. | Incipient decay. |
| 1136 | Tillamook | Stump. | Burl. |
| Acer glabi | rum var. dougl | lasii (Hool | k.) Dipp—(FSCL). Shrub. |
| 210 | Linn | Stem. | |
| 482 | Lane | Stem. | |
| 1137 | Multnomah | Stem. | |
| 1138 | Multnomah | Stem. | |
| 1139 | Multnomah | Stem. | |
| 1140 | Wallowa | Stem. | |
| 1140 | Wallowa | Stem. | |
| | | | |
| Acer maci | ophyllum Purs | sh.—(FSCI | L). Tree. |
| 268 | Jackson | Stem. | Pith included. Fast growth. |
| 407 | Douglas | Stem. | Heartwood. |
| 561 | Benton | Stem. | Heartwood. |
| 578 | Benton | Limb. | Sap and heartwood. |
| 661 | Coos | Stem. | Sap and heartwood. |
| 693 | Douglas | Stem. | Sap and heartwood. |
| 707 | Coos | Stem. | Sap and neartwood. |
| 774 | Iackson | Stem. | Sapwood. |
| 1143 | Lane | | Sapwood. |
| | | Stem. | II |
| 1144 | Clackamas | Stem. | Heartwood. Fiddleback grain. |
| 1146 | Linn | Stem. | Crotch. Incipient decay. |
| 1149 | Benton | Stem. | Burl. |
| 1150 | Clackamas | Stem. | Advanced decay. |
| | mbifolia Nutt | | Tree. |
| 287 | Jackson | Stem. | Heartwood. |
| 454 | Douglas | Stem. | |
| 773 | Jackson | Stem. | Pith included. |
| 1153 | Marion | Stem. | |
| 1154 | Polk | Stem. | Wavy grain. |
| 1155 | Malheur | Stem. | |
| 1390 | Josephine | Stem. | |
| | | | |
| | ra Bong.—(FS | | |
| 337 | Clackamas | Stem. | |
| 587 | Polk | Stem. | Pith included. |
| 602 | Tillamook | Stem. | |

| 672 | Coos | Stem. | Pith included. |
|------------|------------------|-------------|--|
| 695 | Douglas | Stem. | Pith included. |
| 1157 | Clackamas | Burl. | |
| 1158 | Lane | Burl. | |
| Alnus rubi | ra var. pinnatis | secta Starl | ser—(FSCL). Shrub to small tree. |
| 1159 | Washington | Stem. | Pith included. |
| 1160 | Washington | Stem. | Titli metaded. |
| | | | |
| | ata (Reg.) Ry | | L). Shrub. |
| 208 | Linn | Stem. | |
| 475 | Klamath | Stem. | |
| 1161 | Clatsop | Stem. | |
| 1161A | Clatsop | Stem. | Crotch. |
| 1162 | Deschutes | Stem. | |
| Alnus teni | uifolia Nutt.— | (FSCL). | Shrub to small tree. |
| 225 | Deschutes | Stem. | Pith included. |
| 1163 | Lake | Stem. | Normal wood. |
| 1163A | Lake | Stump. | Bud clusters. |
| 1164 | Deschutes | Stem. | Sapwood. |
| Amelanchi | er florida Lind | 11.—(FSCL | .). Shrub to small tree. |
| 223 | Deschutes | Stem. | |
| 635 | Benton | Stem. | |
| 637 | Lane | Stem. | |
| 736 | Jackson | Stem. | |
| 762 | | Stem. | |
| | Jackson | | TT1 |
| 1165 | Marion | Stem. | Heartwood. |
| 1166 | Clackamas | Stem. | T. C. L. |
| 1167 | Marion | | ear roots. Incipient decay. |
| 1168 | Marion | Root. | Burl. |
| 1394 | Yamhill | Stem. | Incipient decay. |
| Amelanchi | er pallida Gre | ene—(Pecl | k). Shrub. |
| 232 | Klamath | Stem. | Heartwood. Incipient decay. |
| 242 | Klamath | Stem. | |
| 257 | Klamath | Stem. | |
| 1169 | Jackson | Stem. | |
| Amelanchi | er utahensis H | Koehne—(I | SCL). Shrub to small tree. |
| 1170 | Malheur | Stem. | |
| | nenziesii Purso | | L). Tree. |
| 202 | Benton | Stem. | |
| 347 | Lane | Stem. | Sap and heartwood—stained. |
| 581 | Polk | Stem. | Pith included. |
| 648 | Douglas | Stem. | |
| 688 | Douglas | Stem. | Pith included. |
| 711 | Coos | Stem. | |
| 738 | Jackson | Stem. | |
| 763 | Jackson | Stem. | Pith included. |
| 1172 | Douglas | Stem. | |
| 1175 | Douglas | Stem. | Wavy grain. |
| | | | |
| | | | |

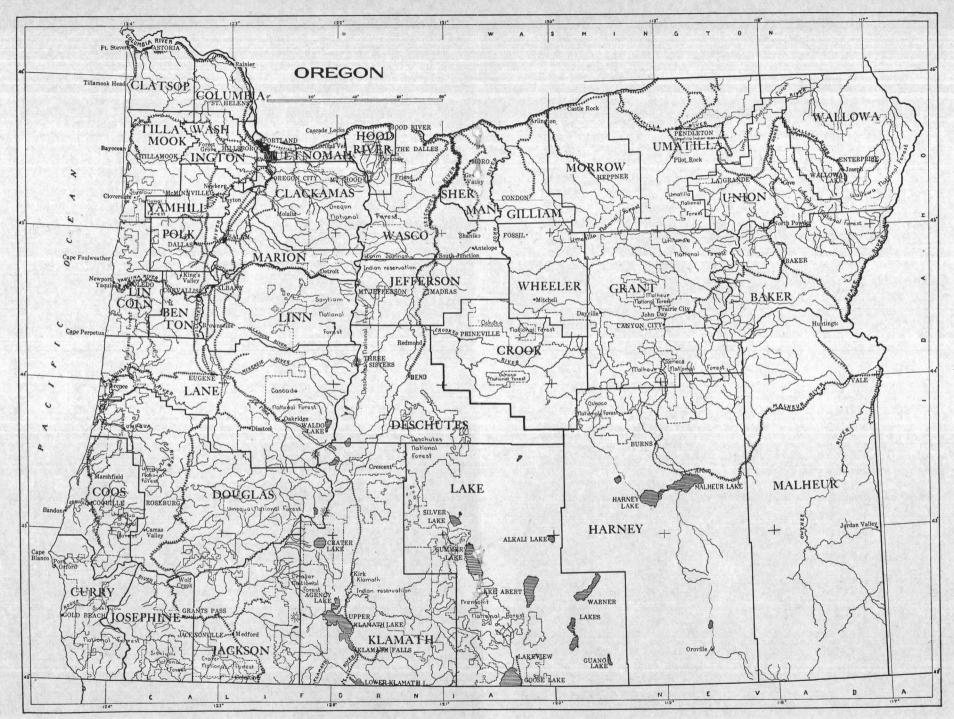
| Arctostaph | ylos canescens | Eastw.—(| (SPN). Shrub. | | | | | |
|--|--|---|--|--|--|--|--|--|
| 216 | Linn | Stem. | | | | | | |
| 665 | Coos | Stem. | Sap and heartwood. | | | | | |
| 768 | Tackson | Stem. | Sap and heartwood. | | | | | |
| Arctostaph | | | (SPN). Shrub. | | | | | |
| 212 | Linn | Stem. | | | | | | |
| 321 | Coos | Stem. | | | | | | |
| 590 | Polk | Stem. | | | | | | |
| 653 | Coos | Stem. | Sap and heartwood. | | | | | |
| 696 | Douglas | Stem. | Sap and heartwood. | | | | | |
| 1176 | Curry | Stem. | Sap and heartwood. | | | | | |
| 1177 | Curry | Stem. | Sap and heartwood. | | | | | |
| | | | | | | | | |
| | ylos parvifolia | | | | | | | |
| 222 | Deschutes | Stem. | Sap and heartwood. | | | | | |
| Arctostaph | nylos patula Gi | eene—(SP | N). Shrub. | | | | | |
| 221 | Deschutes | Stem. | Sap and heartwood. | | | | | |
| Arctostaph Shrub. | nylos stanfordi | ana var. hi | spidula (How.) Adams.—(Peck). | | | | | |
| 662 | Coos | Stem. | | | | | | |
| Arctostaph | ylos viscida P | arry—(SP | N). Shrub. | | | | | |
| 283 | Josephine | Stem. | Sap and heartwood. | | | | | |
| Artemisia | tridentata Nut | t_(SPN) | Artemisia tridentata Nutt.—(SPN). Shrub. | | | | | |
| | | | . Siliub. | | | | | |
| | Klamath | Stem. | . Siliub. | | | | | |
| 246 | | Stem. | | | | | | |
| 246 | Klamath | Stem. | | | | | | |
| 246 Baccharis 1184 | Klamath pilularis D. C. Coos | Stem. —(SPN). Stem. | | | | | | |
| 246 Baccharis 1184 | Klamath pilularis D. C. Coos | Stem. —(SPN). Stem. | Shrub. | | | | | |
| 246 Baccharis 1184 Betula fon | Klamath pilularis D. C. Coos tinalis Sarg.— | Stem. —(SPN). Stem. (FSCL). | Shrub. | | | | | |
| 246 Baccharis 1184 Betula fon 1188 | Klamath pilularis D. C. Coos etinalis Sarg.— Wasco | Stem. —(SPN). Stem. (FSCL). Stem. Stem. Stump. | Shrub. | | | | | |
| 246 Baccharis 1184 Betula fon 1188 1189 1190 Betula pap | Klamath pilularis D. C. Coos stinalis Sarg.— Wasco Wasco Wasco Wasco | Stem. —(SPN). Stem. (FSCL). Stem. Stump. Stump. | Shrub. Shrub to small tree. | | | | | |
| 246 Baccharis 1184 Betula fon 1188 1189 1190 Betula pap tree. | Klamath pilularis D. C. Coos etinalis Sarg.— Wasco Wasco Wasco Wasco oyrifera var. st | Stem. —(SPN). Stem. (FSCL). Stem. Stump. Stump. stump. ubcordata | Shrub. Shrub to small tree. Burl. (Rydb.) Sarg.—(FSCL). Small | | | | | |
| 246 Baccharis 1184 Betula fon 1188 1189 1190 Betula pap tree. 1191 | Klamath pilularis D. C. Coos etinalis Sarg.— Wasco Wasco Wasco Oyrifera var. se Wallowa | Stem. —(SPN). Stem. (FSCL). Stem. Stump. Stump. stump. ubcordata Stem. | Shrub. Shrub to small tree. Burl. (Rydb.) Sarg.—(FSCL). Small Sapwood. Bark pockets. | | | | | |
| 246 Baccharis 1184 Betula fon 1188 1189 1190 Betula pap tree. | Klamath pilularis D. C. Coos etinalis Sarg.— Wasco Wasco Wasco Wasco oyrifera var. st | Stem. —(SPN). Stem. (FSCL). Stem. Stump. Stump. stump. ubcordata | Shrub. Shrub to small tree. Burl. (Rydb.) Sarg.—(FSCL). Small | | | | | |
| 246 Baccharis 1184 Betula fon 1188 1189 1190 Betula partree. 1191 1192 Betula pur | Klamath pilularis D. C. Coos etinalis Sarg.— Wasco Wasco Wasco pyrifera var. sa Wallowa Wallowa mila var. gland | Stem. —(SPN). Stem. (FSCL). Stem. Stump. Stump. ubcordata Stem. Stem. ulifera Re | Shrub. Shrub to small tree. Burl. (Rydb.) Sarg.—(FSCL). Small Sapwood. Bark pockets. Straight and wavy grain. | | | | | |
| 246 Baccharis 1184 Betula fon 1188 1189 1190 Betula partree. 1191 1192 Betula pur 229 | Klamath pilularis D. C. Coos etinalis Sarg.— Wasco Wasco Wasco Wasco Wasco Wasco Waslowa wallowa Wallowa mila var. gland Deschutes | Stem. —(SPN). Stem. (FSCL). Stem. Stump. Stump. stump. ubcordata Stem. Stem. ulifera Re Stem. | Shrub. Shrub to small tree. Burl. (Rydb.) Sarg.—(FSCL). Small Sapwood. Bark pockets. Straight and wavy grain. gel.—(Peck). Shrub. | | | | | |
| 246 Baccharis 1184 Betula fon 1188 1189 1190 Betula partree. 1191 1192 Betula pur 229 447 | Klamath pilularis D. C. Coos etinalis Sarg.— Wasco Wasco Wasco Wasco pyrifera var. su Wallowa Wallowa mila var. gland Deschutes Wallowa | Stem. —(SPN). Stem. (FSCL). Stem. Stump. Stump. stump. stem. Stem. stem. Stem. Stem. Stem. Stem. Stem. | Shrub. Shrub to small tree. Burl. (Rydb.) Sarg.—(FSCL). Small Sapwood. Bark pockets. Straight and wavy grain. gel.—(Peck). Shrub. Stained near pith. | | | | | |
| 246 Baccharis 1184 Betula fon 1188 1189 1190 Betula par tree. 1191 1192 Betula pur 229 447 1193 | Klamath pilularis D. C. Coos etinalis Sarg.— Wasco Wasco Wasco Wasco Walso pyrifera var. sa Wallowa Wallowa mila var. gland Deschutes Wallowa Clackamas | Stem. —(SPN). Stem. (FSCL). Stem. Stump. Stump. ubcordata Stem. Stem. ulifera Re Stem. Stem. Stem. Stem. Stem. | Shrub. Shrub to small tree. Burl. (Rydb.) Sarg.—(FSCL). Small Sapwood. Bark pockets. Straight and wavy grain. gel.—(Peck). Shrub. Stained near pith. Stained near pith. | | | | | |
| 246 Baccharis 1184 Betula fon 1188 1189 1190 Betula par tree. 1191 1192 Betula pur 229 447 1193 1194 | Klamath pilularis D. C. Coos etinalis Sarg.— Wasco Wasco Wasco Wasco Wallowa Wallowa Wallowa mila var. gland Deschutes Wallowa Clackamas Wallowa | Stem. —(SPN). Stem. (FSCL). Stem. Stump. Stump. abcordata Stem. | Shrub. Shrub to small tree. Burl. (Rydb.) Sarg.—(FSCL). Small Sapwood. Bark pockets. Straight and wavy grain. gel.—(Peck). Shrub. Stained near pith. | | | | | |
| 246 Baccharis 1184 Betula fon 1188 1189 1190 Betula partree. 1191 1192 Betula pur 229 447 1193 1194 1195 | Klamath pilularis D. C. Coos etinalis Sarg.— Wasco Wasco Wasco Wasco Waslowa wallowa Wallowa mila var. gland Deschutes Wallowa Clackamas Wallowa Wallowa Wallowa Clackamas Wallowa Wallowa | Stem. —(SPN). Stem. (FSCL). Stem. Stump. Stump. Stump. ubcordata Stem. | Shrub. Shrub to small tree. Burl. (Rydb.) Sarg.—(FSCL). Small Sapwood. Bark pockets. Straight and wavy grain. gel.—(Peck). Shrub. Stained near pith. Stained near pith. Incipient decay. | | | | | |
| 246 Baccharis 1184 Betula fon 1188 1189 1190 Betula partree. 1191 1192 Betula pur 229 447 1193 1194 1195 Castanopsi | Klamath pilularis D. C. Coos etinalis Sarg.— Wasco Wasco Wasco Wasco pyrifera var. sa Wallowa Wallowa mila var. gland Deschutes Wallowa Clackamas Wallowa Wallowa Wallowa Karanas Wallowa Sarg.— Wasco Wasco Wallowa Clackamas Wallowa Wallowa Wallowa Karanas K | Stem. —(SPN). Stem. (FSCL). Stem. Stump. Stump. ubcordata Stem. | Shrub. Shrub to small tree. Burl. (Rydb.) Sarg.—(FSCL). Small Sapwood. Bark pockets. Straight and wavy grain. gel.—(Peck). Shrub. Stained near pith. Stained near pith. Incipient decay. A.DC.—(FSCL). Tree. | | | | | |
| 246 Baccharis 1184 Betula fon 1188 1189 1190 Betula partree. 1191 1192 Betula pur 229 447 1193 1194 1195 Castanopsi 304 | Klamath pilularis D. C. Coos etinalis Sarg.— Wasco Wasco Wasco Wasco Waslowa wallowa Wallowa mila var. gland Deschutes Wallowa Clackamas Wallowa Wallowa Wallowa Clackamas Wallowa Wallowa | Stem. —(SPN). Stem. (FSCL). Stem. Stump. Stump. Stump. ubcordata Stem. | Shrub. Shrub to small tree. Burl. (Rydb.) Sarg.—(FSCL). Small Sapwood. Bark pockets. Straight and wavy grain. gel.—(Peck). Shrub. Stained near pith. Stained near pith. Incipient decay. A.DC.—(FSCL). Tree. Sap and heartwood. Pith included. | | | | | |
| 246 Baccharis 1184 Betula fon 1188 1189 1190 Betula partree. 1191 1192 Betula pur 229 447 1193 1194 1195 Castanopsi 304 632 | Klamath pilularis D. C. Coos ctinalis Sarg.— Wasco Wasco Wasco Wasco Wasco Wasco Waslowa Wallowa Wallowa Mila var. gland Deschutes Wallowa Clackamas Wallowa Wallowa Se chrysophylla Benton Benton | Stem. —(SPN). Stem. (FSCL). Stem. Stump. Stump. Stump. ubcordata Stem. | Shrub. Shrub to small tree. Burl. (Rydb.) Sarg.—(FSCL). Small Sapwood. Bark pockets. Straight and wavy grain. gel.—(Peck). Shrub. Stained near pith. Stained near pith. Incipient decay. A.DC.—(FSCL). Tree. Sap and heartwood. Pith included. Sap and heartwood. Pith included. | | | | | |
| 246 Baccharis 1184 Betula fon 1188 1189 1190 Betula partree. 1191 1192 Betula pur 229 447 1193 1194 1195 Castanopsi 304 | Klamath pilularis D. C. Coos etinalis Sarg.— Wasco Wasco Wasco Wasco Wasco pyrifera var. su Wallowa Wallowa mila var. gland Deschutes Wallowa Clackamas Wallowa Wallowa Wallowa Se chrysophylla Benton | Stem. —(SPN). Stem. (FSCL). Stem. Stump. Stump. ubcordata Stem. | Shrub. Shrub to small tree. Burl. (Rydb.) Sarg.—(FSCL). Small Sapwood. Bark pockets. Straight and wavy grain. gel.—(Peck). Shrub. Stained near pith. Stained near pith. Incipient decay. A.DC.—(FSCL). Tree. Sap and heartwood. Pith included. | | | | | |

| 689 719 770 | Douglas Coos Jackson | Stem. Stem. | Sap and heartwood. Pith included Sap and heartwood. Pith included Sapwood. |
|-------------------|----------------------------|----------------|--|
| 1196 | Benton | Stem. | |
| 1197 | Josephine | Stump. | Curly grain. |
| 1198 | Josephine | Stump. | Burl. |
| Castanops: | is semperviren | s (Kell.) I | Oudl.—(SPN). Shrub to small |
| 1199 | Jackson | Stem. | |
| Ceanothus | cuneatus Nut | t.—(SPN) | . Shrub. |
| 285 | Jackson | Stem. | |
| .644 | Douglas | Stem. | |
| 1200 | Jackson | Stem. | Heartwood. |
| Ceanothus | integerrimus | H. & A.— | (SPN). Shrub. |
| 266 | Jackson | Stem. | |
| 277 | Jackson | Stem. | Sap and heartwood. |
| 643 | Douglas | Stem. | |
| 1201 | Douglas | Stem. | Sap and heartwood. |
| Ceanothus | sanguineus P | ursh.—(SF | N). Shrub. |
| 641 | Douglas | Stem. | |
| 679 | Lane | Stem. | |
| 1202 | Marion | Stem. | |
| 1203 | Marion | Root. | |
| Ceanothus | thyrsiflorus | Eschsch.—(| FSCL). Shrub to small tree. |
| 651 | Douglas | Stem. | Pith included. |
| 659 | Coos | Stem. | Pith included. Discolored heart- wood. |
| 1204 | Coos | Stem. | Heartwood. Incipient decay. |
| Ceanothus | velutinus Dou | ıgl.—(SPN |). Shrub. |
| 224 | Deschutes | Stem. | |
| 1205 | Douglas | Stem. | |
| Ceanothus | velutinus var. | laevigatu | s T. & G.—(SPN). Shrub. |
| 214 | Linn | Stem. | |
| 646 | Douglas | Stem. | |
| 686 | Douglas | Stem. | |
| 1206 | Washington | Stem. | Heartwood. |
| 1378 | Clackamas | Stem. | Sap and heartwood. |
| Celtis dou | glasi Planch.— | (SPN). S | hrub to small tree. |
| 1207 | Wasco | Stem. | |
| Cercocarp | us betuloides | Nutt.—(FS | CL). Shrub to small tree. |
| 243 | Klamath | Stem. | Sap and heartwood. |
| 263 | Tackson | Stem. | Sap and heartwood. |
| 271 | Jackson | Stem. | |
| 293 | Josephine | Stem. | |
| 450 | Douglas | Stem. | Heartwood. |
| 1208 | | | 보는 그 그 그리고 있는데, 프로그리아 아마 그런데 그 이 얼마나면서 게 먹는 어느 나는 것이다. |
| 1200 | Tackson | Stem. | Heartwood. |

| Cercocarpi | us ledifolius N | lutt.—(FSC | CL). Shrub to small tree. |
|------------|-----------------|-------------|---|
| 336 | Klamath | Stem. | Sap and heartwood. Slight insect |
| | | | damage. |
| 730 | Lake | Stem. | Sap and heartwood. |
| 1209 | Tackson | Stem. | Sap and heartwood. |
| 1210 | Crook | Stem. | Sap and heartwood. |
| Chrysothan | mnus nauseasu | s Pall. Bri | tt.—(SPN). Shrub. |
| 249 | Klamath | Stem. | |
| 250 | Klamath | Stem. | |
| Cornus gla | brata Benth.— | (SPN). S | hrub. |
| 255 | Klamath | Stem. | |
| 1215 | Jackson | Stem. | |
| Cornus nu | ttalli Aud.—(F | SCL). Ti | ree. |
| 75 | Douglas | Stem. | |
| 317 | Douglas | Stem. | Pith included with incipient to advanced decay. |
| 346 | Lane | Stem. | Pith included with stain. |
| 580 | Polk | Stem. | Pith included. |
| 620 | Benton | Stem. | Pith included. |
| 657 | Coos | Stem. | Pith included. |
| 687 | | Stem. | Pith included. |
| | Douglas | | Stain. |
| 715 | Coos | Stem. | Stain. |
| 740 | Jackson | Stem. | IItd Advanged decay |
| 757 | Jackson | Stem. | Heartwood. Advanced decay near pith. |
| 1211 | Clackamas | Stem. | near pitti. |
| 1211 | Clackamas | Root. | Burl. |
| 1213 | Clackamas | Stem. | Stain. |
| | | | |
| | cidentalis Cov. | | Shrub. |
| 320 | Douglas | Stem. | |
| 652 | Douglas | Stem. | Advanced decay near pith. |
| 1216 | Multnomah | Stem. | Stain. |
| Cornus sto | olonifera Mich | x.—(SPN) | . Shrub. |
| 274 | Jackson | Stem. | |
| 1217 | Wasco | Stem. | |
| 1218 | Wallowa | Stem. | Stain. |
| Corylus ca | alifornica (A.D | C) Rose | -(SPN). Shrub. |
| 309 | Coos | Stem. | |
| 586 | Polk | Stem. | |
| 703 | Douglas | Stem. | |
| 742 | Jackson | Stem. | |
| 769 | Jackson | Stem. | |
| 1219 | Tillamook | Stem. | |
| Crataegus | columbiana H | ow.—(FSC | CL). Shrub to small tree. |
| 1223 | Wallowa | Stem. | |
| 1393 | Wallowa | Stem. | Sapwood. |
| 1070 | ., | ~ | |

| Crataegu. | s douglasii Li | ndl.—(FSC | L). Small tree. |
|--|----------------|-------------|--|
| 54 | Douglas | Stem. | Sap and heartwood. |
| 623 | Benton | Stem. | Pith included. |
| 638 | Lane | Stem. | Sap and heartwood. Pith included. |
| 1220 | Polk | Stem. | Sap and heartwood. |
| 1222 | Yamhill | | |
| | | Stem. | Sapwood. |
| Echinopa (Sm.) | | Dec. & Plan | ch.—See Oplopanax horridus |
| Ephedra | nevadensis W | ats.—(SPN |). Shrub. |
| 1225 | Harney | Stem. | |
| Ephedra | viridis Cov.— | (SPN). SI | nrub. |
| 1226 | Harney | Stem. | |
| Eriogonu | m umbellatun | n Torr.—(S | SPN). Shrub. |
| 265 | Jackson | Stem. | |
| Fraxinus | oregona Nutt | .—(FSCL). | Tree. |
| 133 | Douglas | Stem. | |
| 318 | Lane | Stem. | Pith included. Fast growth. |
| 636 | Benton | Stem. | Pith included. |
| 701 | Douglas | Stem. | Pith included. |
| 758 | Jackson | Stem. | |
| 1227 | Marion | Stem. | Heart stained. |
| 1228 | Marion | Stem. | Fiddleback grain. |
| 1229 | Marion | Stem. | Wart. Stained. |
| 1230 | Polk | Stem. | Wart. Stained. |
| 1231 | Polk | Stem. | HONEL MAN HOLE NOT NOT IN SECTION (1984) (1984) (1984) (1984) (1984) (1984) (1984) (1984) (1984) (1984) (1984) |
| 1232 | Marion | Burl. | Blister grain. |
| 1234 | Benton | | Insert democrad |
| The Research of the Control of the C | | Stem. | Insect damaged. |
| 1235 | Marion | Stump. | Stain. |
| 1381 | Polk | Stem. | Wart. |
| | | | Shrub to small tree. |
| 1236 | Curry | Stem. | |
| 1237 | Curry | Stem. | |
| | emonti Torr | | Shrub. |
| 284 | Jackson | Stem. | |
| 1238 | Douglas | Stem. | Stain. |
| | a shallon Purs | sh.—(SPN) | . Shrub. |
| 316 | Coos | Stem. | |
| 323 | Coos | Stem. | |
| 598 | Tillamook | Stem. | |
| 1239 | Lane | Stem. | |
| Holodiscu | is discolor (P | ursh.) Max | im.—(SPN). Shrub. |
| 206 | Benton | Stem. | |
| 582 | Polk | Stem. | |
| 618 | Benton | Stem. | |
| 739 | Jackson | Stem. | |
| | 3301.001. | D. C | |
| | | | |

| 1240 | | Stem. | Incipient decay. |
|--------------|-------------------|----------------|--|
| 1241 1242 | Tillamook Polk | Stem. Root. | Incipient decay. |
| | , , , D. | (CD) | (I) Chamb |
| | lumbianum Pi | | N). Shrub. |
| 1243 | | Stem. | |
| Lithocarpi | us densiflorus | (Hook. & | Arn.) Rehd.—(FSCL). Tree. |
| 297 | Josephine | Stem. | Stain. |
| 656 | Coos | Stem. | |
| 712 | Coos | Stem. | Pith included. Bark pocket. |
| 714 | Coos | Stem. | Pith included. |
| 1244 1245 | Coos Curry | Stem. | |
| 1245 | Curry | Stem. | Wart growth. Stain. |
| | | | |
| Lonicera o | coerulea L.—(| | nrub. |
| 233 | Klamath | Stem. | |
| Lonicera i | involucrata Ba | anks.—(SP | N). Shrub. |
| | Tillamook | | |
| | | | NI) Charle |
| | aquifolium Pu | | N). Shrub. |
| 627 | Benton | Stem. | Very large specimen. Stain. |
| 1185 | | | |
| Mahonia 1 | nervosa Pursh. | —(SPN). | Shrub. |
| 330 | Marion | Stem. | |
| 626 | Benton | Stem. | 在对外的表面。中心是分词 |
| Mahonia 1 | nineriana (Abi | .) n. comb | .—(SPN). Shrub. |
| | Jackson | Stem. | |
| | | | |
| Mahonia 1 | pumila Greene- | | Shrub. |
| 1187 | Josephine | Stem. | |
| Malue fue | ca (Raf) Sch | neid — (FS | SCL). Shrub to small tree. |
| 642 | Douglas | ~ | G |
| 1249 | Tillamook | Stem. | Stain near pith. Stain and slight insect damage. Fiddleback grain. |
| | Marion | Root. | Fiddleback grain. |
| 1251 | Marion | Root. | Incipient to advanced decay. |
| | | T 1 /CT | N) Showb |
| | ferruginea H | | N). Shrub. |
| 605 | | Stem. | |
| 606 | Clatsop | Stem. | |
| Myrica ca | alifornica Cha | m.—(FSCI | L). Shrub to small tree. |
| 212 | ~ | Stem. | Pith included. Stain. |
| 312 597 | Tillamook | Stem. | |
| 1254 | Lincoln | Stump. | Burl. |
| Onlonana | y horridus (S | m) Mig- | -(SPN). Shrub. |
| | Polk | | |
| 1444 | T OIV | NCCIII. | |



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Osmaronia cerasiformis (T. & G.) Greene—(SPN). Shrub.
           Cons
                         Stem
    583
           Polk
                         Stem
    771
           Tackson
                         Stem
   1255
           Clackamas
                         Stem
                                   Advanced decay.
   1256
           Marion
                         Stump.
   1256A
           Marion
                         Stem.
   1257
           Marion
                         Stump.
                                   Burl
Pachystima myrsinites (Pursh.) Raf.—(SPN). Shrub.
    215
           Linn
                         Stem
    1215
           Tosephine
                         Stem.
Peraphyllum ramosissimum Nutt.—(SPN). Shrub.
    1259
           Raker
                         Stem
Philadelphus gordonianus Lindl.—(SPN). Shrub.
    678
                         Stem
           Curry
   1260
           Tosephine
                         Root
Philadelphus lewisi Pursh.—(SPN). Shrub.
    267
           Tackson
                         Stem
Physocarpus capitatus (Pursh.) Ktze.—(SPN). Shrub.
    608
           Clatsop
                         Stem.
    702
                                   San and heartwood.
           Douglas
                          Stem.
                                   Burl. Heartwood.
    1261
           Marion
                         Root.
    1262
           Marion
                         Stem
                                   Heartwood
Populus angustifolia Iames—(FSCL). Tree.
           Malheur
    438
                          Stem
    1263
           Harney
                         Stem.
    1264
           Harney
                          Stem.
    1265
           Harney
                         Stump.
                                  Stain.
Populus tremuloides Michx.—(FSCL). Tree.
                                   San and heartwood-stained.
    329
           Deschutes
                         Stem
                                   Sap and heartwood-stained.
    732
           Lake
                         Stem.
                                      Pith included.
    1266
           Harney
                          Stem.
    1267
           Benton
                          Stem.
    1268
           Marion
                         Stem
    1383
           Grant
                         Stem.
Populus trichocarpa T. & G.—(FSCL). Tree.
    328
                         Stem.
                                   Sap and heartwood-stained.
           Marion
                                   Heartwood stained. Fast growth.
    453
           Douglas
                         Stem.
                                   Sap and heartwood. Fast growth.
    1269
           Marion
                          Stem.
                                   Stain.
    1270
           Marion
                          Stem
                                   Sap and heartwood.
    1271
           Clackamas
                         Stem.
    1272
                                   Curly grain.
           Marion
                          Stump.
   1273
                         Root.
                                   Bark burl.
           Yamhill
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| Prunus en | narginata (Doi | ugl.) D. Die | tr.—(FSCL). Shrub to small tree |
|-----------------|---------------------|--------------|---------------------------------|
| 4 | Coos | Stem. | Heartwood. |
| 245 | Klamath | Stem. | Pith included. |
| 610 | Tillamook | Stem. | Sap and heartwood—stained. |
| 010 | Tillalliook | Decin. | Fast growth. Pith included. |
| 621 | Benton | Stem. | Heartwood. Pith included. |
| 628 | Benton | Stem. | Stained near pith. Fast growth. |
| 1274 | Marion | Stem. | Sap and heartwood. |
| 1274 | Marion | Stem. | Wart. Heartwood. |
| 1275 | Marion | Stem. | Heartwood. Fiddleback grain. |
| | | Burl. | Heartwood. |
| 1277 | Benton | | |
| Prunus er | narginata var. | erecta (P | resl.) Piper—(Peck). Tree. |
| 220 | Deschutes | Stem. | |
| Prunus su | abcordata Bent | th.—(FSCL |). Shrub. |
| 256 | Klamath | Stem. | Sap and heartwood—stained. |
| | | Stem. | Heartwood. Insect damaged. |
| 1280 | Jackson | | |
| | | demissa (| Nutt.) Torv.—(FSCL). Shrub to |
| small tre | e. | | |
| 241 | Klamath | Stem. | |
| 622 | Benton | Stem. | Sap and heartwood. |
| 1278 | Yamhill | Stem. | Heartwood. |
| 1279 | Morrow | Stem. | Sap and heartwood. |
| Shrub to 252 | small tree. Klamath | Stem. | |
| | | 1) D.C. | (CDN) Sth |
| Purshia t | ridentata (Pu | rsh.) D.C.— | -(SPN). Shrub. |
| | Deschutes | Stem. | |
| 247 | Klamath | Stem. | |
| 1281 | Wheeler | Stem. | |
| Quercus | chrysolepis L | iebm.—(FS | CL). Tree. |
| 163 | Douglas | Stem. | |
| 205 | Douglas | Stem. | |
| 663 | Coos | Stem. | Pith included. Fast growth. |
| 676 | Douglas | Stem. | |
| 692 | Douglas | Stem. | Pith included. |
| 737 | Jackson | Stem. | |
| | | 1 (ECCI |) T |
| | garryana Dou | |). Tree. |
| 264 | Jackson | Stem. | |
| 435 | Douglas | Stem. | Sap and heartwood. |
| 579 | Polk | Stem. | Sap and heartwood. |
| 640 | Lane | Stem. | Sap and heartwood. |
| 735 | Jackson | Stem. | Sap and heartwood. |
| 1286 | Marion | Stem. | Insect damaged. |
| 1287 | Marion | Stump. | Curly grain. |
| 1288 | Marion | Stump. | Burl. |
| | | | |

| 1289 1290 1292 | Marion Marion Marion | Overgro Stem. Limb. | own stump wood. Crotch. Stained (water). Advanced decay and insect damaged. |
|----------------------|----------------------------|---------------------------|---|
| Querous | kelloggii New | L (ECCI | |
| 92 | Douglas Douglas | Stem. | .). Tree. |
| 281 | Josephine | Stem. | |
| 647 | Douglas | Stem. | |
| 734 | Jackson | Stem. | Heartwood. |
| 1283 | Josephine | Stem. | |
| | morehus Kello | | L). Tree. |
| 1293 | | Limb. | Insect damaged. |
| 1384 | Douglas | Stem. | |
| Quercus | oerstediana (a | uth.?)—(S | SPN). Shrub. |
| 288 | Josephine | Stem. | |
| Quercus | sadleriana R. | Br.—(SPN | N). Shrub. |
| 1294 | Josephine | Stem. | |
| Quercus | vaccinifolia K | ell.—(SPN | I). Shrub. |
| 289 | Josephine | Stem. | |
| 292 | Josephine | Stem. | |
| 666 | Coos | Stem. | |
| 1296 | Josephine | Stem. | Bud clusters. Slight advanced decay and stain. |
| Rhamnus | alnifolia L'He | r_(SPN) |). Shrub. |
| 1297 | Wallowa | Stem. | |
| Rhamnus | californica va | r occider | ntalis (How.)—(Peck). Shrub. |
| 1303 | Curry | Stem. | Stain. |
| Rhamnus | purshiana D.(| C_(FSCI |) Tree |
| 270 | Jackson Jackson | Stem. | Pith included. |
| 311 | Coos | Stem. | Fith included. |
| 532 | Benton | Stem. | Pith included. Fast growth. |
| 624 | Benton | | Pith included. Past growth. |
| 1298 | Marion | Stump. | 1 itii iliciuded. |
| 1299 | Clackamas | Stump. | |
| 1300 | Multnomah | Stem. | |
| 1301 | Marion | Burl. | |
| Rhododen | dron macroph | yllum D. | Don—(FSCL). Shrub. |
| 589 | Polk | Stem. | |
| 669 | Coos | Stem. | |
| 705 | Douglas | Stem. | |
| 725 | Clackamas | Stem. | |
| 1305 | Coos | Stem. | |
| 1306 | Douglas | Stem. | Large specimen (11" dia.). Slight |
| 1307 | Marion | Burl. | incipient decay. |

Rhododendron occidentale (T. & G.) Gray-(SPN). Shrub.

290 Josephine Stem. 667 Coos Stem.

1304 Douglas Stem.

*Rhus diversiloba T. & G .- (Peck). See Toxicodendron diversilobum

Rhus glabra var. occidentalis L. (Torr.)—Peck. Shrub.

1308 Wallowa Stem.

*Rhus toxicodendron L.—(Peck). See Toxicodendron guercifolium.

Rhus trilobata Nutt.-(SPN). Shrub.

275 Jackson Stem. Incipient decay near pith.

1309 Malheur Stem.

Ribes acerifolium How.—(SPN). Shrub.

681 Lane Stem.

Ribes aureum Pursh.—(SPN). Shrub.

1310 Umatilla Stem.

1311 Umatilla Root.

Ribes bracteosum Dougl.—(SPN). Shrub.

1312 Tillamook Stem.

Ribes cereum Dougl.—(SPN). Shrub.

227 Deschutes Stem.

248 Klamath Stem.

Ribes inerme Rydb.—(SPN). Shrub.

278 Jackson Stem.

Ribes lacustre (Pers.) Poir.—(SPN). Shrub.

228 Deschutes Stem.

Ribes lobbi Gray-(SPN). Shrub.

680 Benton Stem.

1313 Josephine Stem.

Ribes menziesi Pursh.—(SPN). Shrub.

1314 Curry Stem.

Ribes sanguineum Pursh.—(SPN). Shrub.

611 Tillamook Stem.

1315 Curry Stem. Incipient decay.

Ribes velutinum Greene-(SPN). Shrub.

253 Klamath Stem. 258 Klamath Stem.

Ribes viscosissium Pursh.—(SPN). Shrub.

213 Linn Stem.

^{*} Scientific names most commonly used in the West.

1346

Lincoln

Stem.

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Rosa piscocarpa var. transmontana Grav (Wats.)—(Peck). Shrub.
           Tackson
                        Stem
Rosa spaldingi Crepin.—(SPN). Shrub.
           Klamath
     244
                       Stem
Rubus bartonianus Peck.—(Peck). Shrub.
           Wallowa
                       Stem
Rubus parviflorus Nutt.—(SPN). Shrub.
           Tillamook
                       Stem.
Rubus spectabilis Pursh.—(SPN). Shrub.
                        Stem.
     307
           Coos
     584
           Polk
                        Stem.
     591
           Tillamook
                        Stem.
    1323
           Curry
                        Stem.
Salix amygdaloides Anderss.—(FSCL). Shrub to small tree.
          Wasco
                        Stem.
Salix argophylla Nutt.—(SPN). Shrub.
    1335
           Wasco
                        Stem.
Salix bebbiana Sarg.—(FSCL). Shrub to small tree.
    1336
           Wallowa
                        Stem.
                                 Heartwood.
    1337
           Malheur
                        Stem.
                                 Heartwood.
    1354
           Crook
                        Stem.
                               Heartwood.
Salix caudata (Nutt.) Heller—(FSCL). Shrub.
    1338 · Wallowa Stem.
                               Heartwood, Stain.
Salix coulteri Anderss.—(FSCL). Large shrub.
          Curry
                        Stem. Sap and heartwood. Pith in-
                                    cluded.
Salix delnortensis Schneid.—(SPN). Shrub.
          Josephine Stem. Sap and heartwood-stained.
Salix exigua Nutt.—(FSCL). Shrub.
    1341
          Gilliam
                        Stem. Sap and heartwood.
Salix fluviatilis Nutt.—(SPN). Shrub.
   1342
          Multnomah Stem.
                                Sap and heartwood.
Salix geyeriana Anderss.—(SPN). Shrub.
    1343
          Deschutes
                        Stem.
   1344
          Linn
                        Stem.
Salix hindsiana Benth.—(FSCL). Shrub or small tree.
   1345
          Tackson
                        Stem. Heartwood. Fast growth.
Salix hookeriana Barratt—(FSCL). Shrub.
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Salix laevigata Bebb.—(FSCL).
                                 Shrub.
    272
           Tackson
                          Stem
                                    Sap and heartwood.
Salix lasiandra Benth.-(FSCL). Tree.
     114
           Marion
                          Stem.
    236
                          Stem
            Klamath
    1347
                          Stem.
                                    Incipient decay.
            Marion
    1348
            Marion
                          Stem.
                                    Stain.
Salix lasiolepis Benth.—(FSCL). Shrub to small tree.
                                    Sap and heartwood.
    1349
           Wallowa
                          Stem.
Salix lutea Nutt.—(FSCL). Shrub.
                                    Stained pith and advanced decay
           Deschutes
                          Stem.
     230
                                       one spot.
     240
            Klamath
                           Stem
Salix melanopsis Nutt.—(FSCL).
                          Stem.
     237
           Klamath
Salix piperi Bebb.—(SPN). Shrub.
                          Stem.
           Marion
                                  Fast growth.
Salix scouleriana Barratt-(FSCL). Shrub.
                                     Heartwood. Fiddleback grain.
                           Stem.
    1351
            Benton
    1352
            Clackamas
                      Burl.
                                    Heartwood.
Sambucus callicarpa Greene—(FSCL). Shrub.
     594
            Tillamook
                           Stem.
                                     Spiral grain.
    1324
            Tillamook
                           Stem.
                                     Spiral grain. Slight stain.
    1389
            Tillamook
                           Stem.
Sambucus glauca Nutt.—(FSCL). Shrub to small tree.
                                     Pith included.
                           Stem.
     269
            Tackson
                                     Pith included.
     609
            Tillamook
                           Stem.
                                     Normal wood. Stained sapwood.
                           Stem.
    1325
            Marion
            Marion
                           Stem.
                                     Deformed wood due to injury.
    1325A
    1326
            Wallowa
                           Stem.
    1237
            Marion
                           Stump.
                                   Burl.
Sambucus melanocarpa Gray—(SPN). Shrub.
    1328
            Wallowa
                           Stem.
    1329
            Multnomah
                           Stem.
    1330
            Multnomah
                           Stem.
                           Stem.
    1331
            Multnomah
            Columbia
                                     Stain.
    1332
                           Stem.
Sarcobatus vermiculatus (Hook.) Torr.—(SPN). Shrub.
                                     Slight incipient decay and insect
    1358
            Harney
                           Stem.
                                        damage.
Shepherdia argentea (Pursh.) Nutt.—(FSCL). Shrub to small tree.
    1359
                           Stem.
            Harney
                                     Wart. Incipient decay and slight
    1360
            Harney
                           Stem.
                                        insect damage.
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Shepherdia canadensis Nutt.—(SPN). Shrub. Stem. Slight advanced decay. Wallowa Sorbus occidentalis (S. Wats.) Greene-(FSCL). Shrub. 2 Tefferson Stem. Sorbus sitchensis Roem.—(FSCL). Shrub to small tree. 209 Linn Stem. 1362 **Tefferson** Stem. Spiraea douglasi Hook.—(SPN). Shrub. 282 **Tosephine** Stem. Spiraea douglasi var. menziesi (Hook) Presl.—(Peck). Shrub. Klamath Stem. Symphoricarpos albus (L.) Blake—(SPN). Shrub. 625 Benton Stem. 645 Douglas Stem. Symphoricarpos mollis Nutt.—(SPN). Shrub. Klamath Stem. Tetradymia canescens DC.—(SPN). Shrub. 251 Klamath Stem. *Toxicodendron diversilobum (auth.?)—(SPN). Shrub. Multnomah Stem. *Toxicodendron quercifolium (auth.?)—(SPN). Shrub. Wallowa Stem. Sap and heartwood. Umbellularia californica (H. & A.) Nutt.—(FSCL). Tree. 5 Coos Stem. 291 **Tosephine** Stem. Pith included 305 Coos Stem. 654 Coos Stem. 708 Coos Stem. Stain. 1367 Stem. Coos Incipient to advanced decay. Vaccinium ovalifolium Smith.—(SPN). Shrub. 604 Clatsop Stem. Vaccinium ovatum Pursh.—(SPN). Shrub.

314 Coos Stem 600 Tillamook Stem. 658 Coos Stem. 1369 Lincoln Root.

Vaccinium parvifolium Smith.—(SPN). Shrub.

310 Coos Stem. 592 Tillamook Stem. 599 Tillamook Stem. 1368 Tillamook Stem.

^{*} See footnote given under Rhus diversiloba and Rhus toxicodendron.

Viburnum ellipticum Hook.—(SPN). Shrub.

1371 Marion

Viburnum pausiflorum Pvl.—(SPN). Shrub.

617 Benton Stem.

Vitis californica Benth.—(SPN). Shrub.

273 Tackson 1372 Jackson Stem. Stem.

Stem.

II. GYMNOSPERMAE

Abies amabilis (Dougl) Forb.—(FSCL). Tree.

Clackamas Stem. 332 **Tefferson** Stem.

377 **Tefferson** Stem. 1000 Stem. Tefferson

1001 **Tefferson** Stem. Crotch. 1374 **Jefferson** Stem.

Abies concolor (Gord. and Glend) Hoopes—(FSCL). Tree.

Pith included. 338 Deschutes Stem.

1002 Deschutes Stem.

1003 Harney Stem. Pith included.

Wart. Fast growth. 1004 Tackson Stem.

Abies grandis (Dougl.) Lindl.—(FSCL). Tree.

261 Klamath Stem. Stem. 308 Coos

630 Benton Stem.

650 Douglas Stem. 694 Stem. Douglas

Stem. Pith included. 706 Douglas

Fast growth. Pith included. 713 Coos Stem.

748 Douglas Stem. Compression wood.

755 Stem. Sap and heart—compression Tackson wood. Pith included.

761 **Tackson** Stem.

Overgrown stump wood. Wavy grain. 1007 Polk

Limb. Compression wood. 1008 Polk Polk Stem. Fast growth. 1009

Limb. Very fast growth. 1010 Marion

Marion 1011 Stump. 1012 Linn Stem.

Wart. Fast growth.

Stem. Crotch. 1382 Marion

Abies lasiocarpa (Hook.) Natt.—(FSCL). Tree.

17 Douglas Stem. 333 Stem. **Tefferson**

1014 Linn Stem.

1015 **Tefferson** Stem. 1016 Douglas Stem.

Stump. Oily. 1017 Linn

Wallowa 1385 Stem.

| Abies ma | gnifica var. sha | stensis Le | mm.—(FSCL). Tree. |
|-----------------------------|--|------------------------------------|--|
| 14 260 262 1018 | Douglas Klamath Klamath Douglas | Stem. Stem. Stem. | n stump wood. Very slow growth. |
| | cera Rehd—(F | | 하면 내용하다면 하게 많아 하느 있습니다. 얼마 에 보면 이 보면 이 것이라고 있어야 했다. |
| 218 | Linn | Stem. | Fast growth. Pith included. |
| 325 724 | Benton Clackamas | Stem. | Sap and heartwood—stained. Compression wood. Very slow growth. |
| 747 1019 1020 | Douglas Clackamas | Stem. | Compression wood. |
| 1020 1021 1022 | Hood River Benton Yamhill | Stem. Stump. | Fast growth. |
| Chamaecy | paris lawsonia | na (A. Mu | err.) Parl.—(FSCL). Tree. |
| 140 374 383 | Douglas Coos Coos | Stem. Stem. Stem. | Slow growth. |
| 614 660 716 | Benton Coos Coos | Stem. Stem. Stem. | Fast growth. Compression wood. |
| 1024 1025 | Josephine Coos | Stem. Stump. | Curly grain. |
| Chamaecy | paris nootkate. | nsis (D. De | on) Spach.—(FSCL). Tree. |
| 327 | Jefferson | Stem. | Slow growth. |
| 331 1029 1030 1031 | Jefferson Grant Clackamas Lane | Stem. Stem. Stump. Stump. | Slow growth. |
| 1032 1033 | Clackamas Jefferson | Stump. Stem. | Compression wood. |
| | | | C. B. Wolf.—(Wolf). Tree. |
| 1034 | Josephine | Stem. | Stain. (Wolf). Tree. |
| 1035 1036 | Josephine Josephine | Stem. Stump. | Compression wood. Insect damaged. |
| Juniperus | communis L | -(FSCL). | Shrub. |
| 341 | Deschutes | Stem. | |
| Juniperus 1037 | communis var Wallowa | . saxatilis Stem. | (auth.?)—(SPN). Shrub. |
| Juniperus | occidentalis H | Hook.—(FS | CL). Tree. |
| 198 231 | Deschutes Deschutes | Stem. Stem. | Sapwood. Sap and heartwood. Pith included. |

^{*}Listed by C. B. Wolf as a variety of Cupressus bakeri in recognition of Mr. O. V. Matthews work with the species. It is understood that the Forest Service tentatively recognizes this species, dependent upon further investigation.

| 224 | Danakutus | Cham | Can and handwood Dith in | | |
|--|-----------------------|-----------|--|--|--|
| 334 | Deschutes | Stem. | Sap and heartwood. Pith included. | | |
| 729 | Lake | Stem. | Sap and heartwood. Pith included. | | |
| 1038 | Deschutes | Stem. | Sap and heartwood. | | |
| 1039 | Deschutes | Stem. | Sapwood. | | |
| 1040 | Deschutes | Stem. | Heartwood. | | |
| 1040 | Deschutes | Stem. | Wart. Heartwood. | | |
| | | | | | |
| Juniperus | scopulorum S | arg.—(FSC | 집 사용하는 것 그 집 집에 가장 내용하는 것이 없습니다. 나는 것이 없는 현실이 되고 있다면 내용하다 때문에 없었다. | | |
| 733 | Harney | Stem. | Sap and heartwood. Slow growth. Pith included. | | |
| 1042 | Wallowa | Stem. | Sap and heartwood. | | |
| 1043 | Wallowa | Stem. | Heartwood. | | |
| 1043A | Wallowa | Root. | Heartwood. | | |
| 1391 | Wallowa | Stem. | Heartwood. | | |
| T | J 1: N | (ECCL) | Tree. | | |
| | dentalis Nutt | | | | |
| 64 | Clackamas | Stem. | Heartwood. | | |
| 340 | Jefferson | Stem. | Fast growth. Compression wood. | | |
| 1044 | Clackamas | Stem. | Sap and heartwood. | | |
| 1045 | Hood River | Stem. | Heartwood. | | |
| 1046 | Wallowa | Stem. | Sap and heartwood. | | |
| Libocedrus decurrens Torr.—(FSCL). Tree. | | | | | |
| 280 | Jackson | Stem. | Sap and heartwood. | | |
| 349 | Lane | Stem. | Sap and heartwood. | | |
| 649 | Douglas | Stem. | Sapwood. | | |
| 697 | Douglas | Stem. | Sap and heartwood. Pith included. | | |
| 720 | Coos | Stem. | Sap and heartwood. Pith included. | | |
| 743 | Jackson | Stem. | | | |
| 749 | Tackson | Stem. | Sap and heartwood. Pith in- | | |
| 772 | Jackson | Stem. | cluded. Pith included. | | |
| | | | Sap and heartwood. | | |
| 1047 | Jackson | Stem. | Sap and heartwood. | | |
| Picea bres | weriana S. Wa | ts.—(FSCI | L). Tree. | | |
| 1048 | Josephine | Stem. | Compression wood. | | |
| Picea eng | <i>elmanni</i> Parry. | —(FSCL) | . Tree. | | |
| -98 | Douglas | Stem. | | | |
| 217 | Linn | Stem. | | | |
| 1049 | Hood River | Stem. | | | |
| 1050 | Umatilla | Stem. | | | |
| 1051 | Wallowa | Stem. | Crotch. | | |
| | hensis (Bong.) | | SCL). Tree. | | |
| 62 | Coos | Stem. | Fast growth. | | |
| 315 | Coos | Stem. | Last Stower. | | |
| 593 | Tillamook | Stem. | Compression wood. | | |
| The court is the first than the court is the court of the | | | | | |
| 1052 | Tillamook | Stem. | Sap and heartwood. | | |

| 1053 | Tillamook | Limb. | Compression wood. |
|-------------|-----------------|---------------------------|---|
| 1055 | Lincoln | Stem. | Sap and heartwood. |
| 1056 | Coos | Stem. | Wavy grain. |
| | | | |
| | icaulis Engelm | | |
| 147 | Douglas | Stem. | Slow growth. Compression wood. |
| 342 | Lane | Stem. | Slow growth, Compression wood, Pith included. |
| 1058 | Lake | C4 | |
| | | Stem. | Sap and heartwood. Slow growth. |
| 1059 | Klamath | Stem. | Wart. Pitchy. |
| 1375 | Hood River | Stem. | Compression wood. Insect damaged. |
| Pinus atte | enuata Lemm.– | -(FSCL). | Tree. |
| 107 | Douglas | Stem. | Sap and heartwood. |
| 296 | | | |
| | Josephine | Stem. | Sap and heartwood. Pith included. |
| 562 | Benton | Limb. | Fast growth. |
| 677 | Douglas | Stem. | Slight stain. Pith included. |
| 767 | Tackson | Stem. | Sapwood. Fast growth. Pith |
| | | 200 | included. |
| 1060 | Douglas | Stem. | |
| 1061 | Douglas | Stem. | Insect damaged. |
| Pinus con | torta Dougl.— | (FSCL). | Tree. |
| 607 | Douglas | Stem. | |
| | | Stem. | Sap and heartwood. Pith included. |
| 1062 | Lincoln | Stem. | Sap and heart—compression wood. |
| 1063 | Lincoln | Stem. | Fast growth. |
| Pinus con | torta var. lati | folia Enge | elm.—(FSCL). Tree. |
| 33 | Lake | Stem. | Sap and heartwood. |
| 88 | Douglas | Stem. | Heartwood. |
| 239 | Klamath | Stem. | Treattwood. |
| 744 | | | Con and board assessments |
| 744 | Douglas | Stem. | Sap and heart—compression wood. Sap stained. |
| 1064 | Douglas | Stem. | |
| 1065 | Clackamas | Stem. | Sap and heartwood. |
| 1066 | Klamath | Stem. | Sapwood. |
| | | | |
| | ilis James.—(I | #1787 [KW Mrd] Fig. 11.71 | ree. |
| 1067 | Wallowa | Stem. | Sap and heartwood. Insect damaged. Sap stained. |
| 1068 | Wallowa | Stem. | Pitchy. Irregular growth. |
| 1373 | Wallowa | Stem. | Sapwood. Spiral grain. Very |
| 1373 | wanowa | Stem. | slow growth. |
| Pinus jeff. | reyi Grev. and | Balf.—(F | SCL). Tree. |
| 146 | Josephine | Stem. | Pith included. |
| 295 | Josephine | Stem. | Titil Illeraded. |
| | | | C111 |
| 664 | Coos | Stem. | Sap and heartwood. |
| 1069 | Curry | Stem. | |
| | | | |

| Pinus lam | bertiana Doug | L-(FSCL |). Tree. | | | | |
|---|---|---|---|--|--|--|--|
| 50 | Douglas | Stem. | | | | | |
| 167 | | | Fast growth. | | | | |
| | Josephine | Stem. | | | | | |
| 371 | Deschutes | Stem. | | | | | |
| 671 | Coos | Stem. | Sap and heartwood. | | | | |
| 698 | Douglas | Stem. | Sap and heartwood. Pith included. | | | | |
| 718 | Coos | Stem. | Sap and heartwood. | | | | |
| 753 | Tackson | Stem. | Sap and heart-compression wood. | | | | |
| 764 | 트 (1.40년 전 1.10년 H.) 1.40년 1년 전 전 1.10년 1년 | | | | | | |
| | Jackson | Stem. | Sapwood. | | | | |
| 1070 | Douglas | Stem. | Sap and heartwood. Pith included. Sap stained. | | | | |
| Pinus mon | nticola Dougl | -(FSCL). | Tree. | | | | |
| 123 | Klamath | Stem. | | | | | |
| 219 | Linn | Stem. | Sap and heartwood. Sap | | | | |
| 660 | C | | stained. | | | | |
| 668 | Coos | Stem. | Sap and heartwood. | | | | |
| 683 | Benton | Stem. | Fast growth. | | | | |
| 721 | Clackamas | Stem. | Sap and heartwood. Slow | | | | |
| | | | growth. | | | | |
| 746 | Douglas | Stem. | Sap and heart—compression wood. | | | | |
| 1071 | Klamath | Limb. | Compression wood. | | | | |
| 1072 | Klamath | Stem. | | | | | |
| 1073 | Linn | Stem. | Stain, Insect damaged. | | | | |
| | | | | | | | |
| | Janana I | (ECCT) | T | | | | |
| | derosa Laws.— | | Tree. | | | | |
| 119 | Douglas | Stem. | Tree. Pitchy. | | | | |
| | | | | | | | |
| 119 | Douglas | Stem. | Pitchy. | | | | |
| 119 165 | Douglas Klamath | Stem. Stem. | Pitchy. Heartwood. Fast growth. | | | | |
| 119 165 335 | Douglas Klamath Deschutes Klamath | Stem. Stem. Stem. Stem. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. | | | | |
| 119 165 335 415 704 | Douglas Klamath Deschutes Klamath Douglas | Stem. Stem. Stem. Stem. Stem. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. | | | | |
| 119 165 335 415 704 731 | Douglas Klamath Deschutes Klamath Douglas Lake | Stem. Stem. Stem. Stem. Stem. Stem. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. | | | | |
| 119 165 335 415 704 731 752 | Douglas Klamath Deschutes Klamath Douglas Lake Jackson | Stem. Stem. Stem. Stem. Stem. Stem. Stem. Stem. Stem. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. Sap and heart—compression wood. | | | | |
| 119 165 335 415 704 731 752 | Douglas Klamath Deschutes Klamath Douglas Lake Jackson | Stem. Stem. Stem. Stem. Stem. Stem. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. Sap and heart—compression wood. Pith included. Fast growth. | | | | |
| 119 165 335 415 704 731 752 | Douglas Klamath Deschutes Klamath Douglas Lake Jackson Jackson Deschutes | Stem. Stem. Stem. Stem. Stem. Stem. Stem. Stem. Stem. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. Sap and heart—compression wood. | | | | |
| 119 165 335 415 704 731 752 | Douglas Klamath Deschutes Klamath Douglas Lake Jackson | Stem. Stem. Stem. Stem. Stem. Stem. Stem. Stem. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. Sap and heart—compression wood. Pith included. Fast growth. | | | | |
| 119 165 335 415 704 731 752 766 1074 | Douglas Klamath Deschutes Klamath Douglas Lake Jackson Jackson Deschutes Wallowa | Stem. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. Sap and heart—compression wood. Pith included. Fast growth. Sap and heartwood. Slow growth. Sapwood. | | | | |
| 119 165 335 415 704 731 752 766 1074 1075 | Douglas Klamath Deschutes Klamath Douglas Lake Jackson Jackson Deschutes Wallowa Marion | Stem. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. Sap and heart—compression wood. Pith included. Fast growth. Sap and heartwood. Slow growth. Sapwood. Heartwood. Wavy grain. | | | | |
| 119 165 335 415 704 731 752 766 1074 1075 1077 1078 | Douglas Klamath Deschutes Klamath Douglas Lake Jackson Jackson Deschutes Wallowa Marion Douglas | Stem. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. Sap and heart—compression wood. Pith included. Fast growth. Sap and heartwood. Slow growth. Sapwood. Heartwood. Wavy grain. Pitchy. | | | | |
| 119 165 335 415 704 731 752 766 1074 1075 1077 1078 1079 | Douglas Klamath Deschutes Klamath Douglas Lake Jackson Jackson Deschutes Wallowa Marion Douglas Jefferson | Stem. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. Sap and heart—compression wood. Pith included. Fast growth. Sap and heartwood. Slow growth. Sapwood. Heartwood. Wavy grain. Pitchy. Pitchy. Wavy grain. | | | | |
| 119 165 335 415 704 731 752 766 1074 1075 1077 1078 1079 1080 | Douglas Klamath Deschutes Klamath Douglas Lake Jackson Jackson Deschutes Wallowa Marion Douglas Jefferson Jefferson | Stem. Stump. Stump. Stump. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. Sap and heart—compression wood. Pith included. Fast growth. Sap and heartwood. Slow growth. Sapwood. Heartwood. Wavy grain. Pitchy. Pitchy. Wavy grain. Wavy grain. | | | | |
| 119 165 335 415 704 731 752 766 1074 1075 1077 1078 1079 1080 Pinus sabis | Douglas Klamath Deschutes Klamath Douglas Lake Jackson Jackson Deschutes Wallowa Marion Douglas Jefferson Jefferson Miana Dougl.— | Stem. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. Sap and heart—compression wood. Pith included. Fast growth. Sap and heartwood. Slow growth. Sapwood. Heartwood. Wavy grain. Pitchy. Pitchy. Wavy grain. Wavy grain. Tree. | | | | |
| 119 165 335 415 704 731 752 766 1074 1075 1077 1078 1079 1080 Pinus sabin | Douglas Klamath Deschutes Klamath Douglas Lake Jackson Jackson Deschutes Wallowa Marion Douglas Jefferson Jefferson | Stem. Stump. Stump. Stump. Stump. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. Sap and heart—compression wood. Pith included. Fast growth. Sap and heartwood. Slow growth. Sapwood. Heartwood. Wavy grain. Pitchy. Pitchy. Wavy grain. Wavy grain. | | | | |
| 119 165 335 415 704 731 752 766 1074 1075 1077 1078 1079 1080 Pinus sabia 1459 | Douglas Klamath Deschutes Klamath Douglas Lake Jackson Jackson Deschutes Wallowa Marion Douglas Jefferson Jefferson Jefferson Miana Dougl.— Jackson Believed to be | Stem. Stump. Stump. Stump. Stump. Stump. Stump. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. Sap and heart—compression wood. Pith included. Fast growth. Sap and heartwood. Slow growth. Sapwood. Heartwood. Wavy grain. Pitchy. Pitchy. Wavy grain. Wavy grain. Tree. | | | | |
| 119 165 335 415 704 731 752 766 1074 1075 1077 1078 1079 1080 Pinus sabia 1459 | Douglas Klamath Deschutes Klamath Douglas Lake Jackson Jackson Deschutes Wallowa Marion Douglas Jefferson Jefferson Jefferson Miana Dougl.— Jackson Believed to be | Stem. Stump. Stump. Stump. Stump. Stump. Stump. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. Sap and heart—compression wood. Pith included. Fast growth. Sap and heartwood. Slow growth. Sap and heartwood. Slow growth. Sapwood. Heartwood. Wavy grain. Pitchy. Pitchy. Wavy grain. Wavy grain. Tree. Compression wood. | | | | |
| 119 165 335 415 704 731 752 766 1074 1075 1077 1078 1079 1080 Pinus sabis 1459 (Pseudotsug 63 | Douglas Klamath Deschutes Klamath Douglas Lake Jackson Jackson Deschutes Wallowa Marion Douglas Jefferson Jefferson Jefterson Jackson Believed to be ga taxifolia (F | Stem. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. Sap and heart—compression wood. Pith included. Fast growth. Sap and heartwood. Slow growth. Sapwood. Heartwood. Wavy grain. Pitchy. Pitchy. Wavy grain. Wavy grain. Tree. Compression wood. on.—(FSCL). Tree. Heartwood. Compression wood. | | | | |
| 119 165 335 415 704 731 752 766 1074 1075 1077 1078 1079 1080 Pinus sabir 1459 (Pseudotsug 63 299 | Douglas Klamath Deschutes Klamath Douglas Lake Jackson Jackson Deschutes Wallowa Marion Douglas Jefferson Jefferson Jefterson Miana Dougl.— Jackson Believed to be ga taxifolia (F Polk Josephine | Stem. Stump. Stump. Stump. Stump. Stump. Stump. Stump. Stem. Stem. Stem. Stem. Stem. Stem. Stem. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. Sap and heart—compression wood. Pith included. Fast growth. Sap and heartwood. Slow growth. Sap and heartwood. Slow growth. Sapwood. Heartwood. Wavy grain. Pitchy. Pitchy. Wavy grain. Wavy grain. Tree. Compression wood. on.—(FSCL). Tree. Heartwood. Compression wood. Sap and heartwood. | | | | |
| 119 165 335 415 704 731 752 766 1074 1075 1077 1078 1079 1080 Pinus sabis 1459 (Pseudotsug 63 | Douglas Klamath Deschutes Klamath Douglas Lake Jackson Jackson Deschutes Wallowa Marion Douglas Jefferson Jefferson Jefterson Jackson Believed to be ga taxifolia (F | Stem. | Pitchy. Heartwood. Fast growth. Sapwood. Sap and heartwood. Pith included. Pith included. Sap and heart—compression wood. Pith included. Fast growth. Sap and heartwood. Slow growth. Sapwood. Heartwood. Wavy grain. Pitchy. Pitchy. Wavy grain. Wavy grain. Tree. Compression wood. on.—(FSCL). Tree. Heartwood. Compression wood. | | | | |

| 655 | Coos | Stem. | Sap and heartwood. | | | |
|--------------------------------------|--------------|----------|--|--|--|--|
| 699 | Douglas | Stem. | Sap and heartwood. Pith in- | | | |
| | | | cluded. | | | |
| 709 | Coos | Stem. | Sap and heartwood. | | | |
| 722 | Clackamas | Stem. | Typical yellow fir. | | | |
| 750 | Douglas | Stem. | Sap and heart—compression | | | |
| | | | wood. | | | |
| 754 | Jackson | Stem. | Sap and heart—compression | | | |
| | | | wood. | | | |
| 765 | Jackson | Stem. | Sap and heartwood. | | | |
| 1081 | Clackamas | Stem. | Sap and heartwood. Wavy grain. | | | |
| 1082 | Polk | Stem. | Normal wood. | | | |
| 1082A | Polk | Stem. | Compression wood. | | | |
| 1083 | Marion | Stem. | Sap and heartwood. Wavy grain. | | | |
| 1085 | Polk | Stem. | Odd defect. | | | |
| 1086 | Clackamas | Stem. | Sap and heartwood. Very fine | | | |
| 1007 | Ct. 1 | | grain yellow fir. | | | |
| 1087 | Clackamas | Stem. | Heartwood. | | | |
| 1089 | Clackamas | Limb. | Compression wood. | | | |
| 1090 | Clackamas | Stem. | | | | |
| 1091 | Clackamas | Stem. | Incipient decay. | | | |
| 1092 | Clackamas | Stem. | Fast growth. Compression wood. | | | |
| 1093 | Marion | Stem. | Wavy grain. | | | |
| 1095 | Clackamas | Stem. | Crotch. End grain. | | | |
| 1096 | Clackamas | | wn stump wood. | | | |
| 1097 | Clackamas | Stem. | Pitchy. | | | |
| 1098 | Tillamook | Stem. | Fast growth. Pitchy. | | | |
| 1099 | Clackamas | | wn stump wood. Pitchy. | | | |
| 1100 | Clackamas | Root. | | | | |
| 1103 | Linn | Limb. | | | | |
| 1379 | Clackamas | Limb. | Wavy grain. Compression wood. | | | |
| 1380 | Washington | Stem. | Wart. | | | |
| 1392 | Wallowa | Stem. | Very fine grain yellow fir. | | | |
| Seguoia se | mnorvirona (| D Dom) E | ndl.—(FSCL). Tree. | | | |
| | | | | | | |
| 1131 1132 | Curry | Stem. | Heartwood. | | | |
| 1132 | Lincoln | Stump. | Advanced decay. | | | |
| Taxus brevifolia Nutt.—(FSCL). Tree. | | | | | | |
| | | | Tree. | | | |
| 40 | Douglas | Stem. | Heartwood. | | | |
| 199 | Jackson | Stem. | Heartwood. | | | |
| 326 | Benton | Stem. | Heartwood. | | | |
| 343 | Clackamas | Stem. | Heartwood. | | | |
| 619 | Benton | Stem. | Sap and heartwood. Pith included. | | | |
| 674 | Coos | Stem. | Heartwood. Compression wood. Pith included. | | | |
| 691 | Douglas | Stem. | Heartwood. Pith included. | | | |
| 717 | Coos | Stem. | Sap and heart—compression wood. Pith included. | | | |
| 741 | Jackson | Stem. | Sap and heart—compression | | | |
| | | | wood. Pith included. | | | |

| 756 | Jackson | Stem. | Sap and heart—compression | | | |
|------|----------------|-------|-----------------------------------|--|--|--|
| 1101 | D . | | wood. | | | |
| 1104 | Douglas | Stem. | Sap and heartwood. Pith included. | | | |
| 1105 | Washington | Stem. | Heartwood. | | | |
| 1108 | Benton | Stem. | Heartwood. Advanced decay. | | | |
| 1109 | Douglas | Stem. | Heartwood. Wavy grain. | | | |
| | | | | | | |
| | cata Donn.—(F | | | | | |
| 141 | Lane | Stem. | Heartwood. | | | |
| 319 | Douglas | Stem. | Heartwood. | | | |
| 339 | Clackamas | Stem. | Sap and heartwood. | | | |
| 634 | Benton | Stem. | Sap and heartwood. | | | |
| 700 | Douglas | Stem. | Sap and heart—compression | | | |
| | | | wood. Pith included. | | | |
| 1112 | Clackamas | Stem. | Heartwood. Insect damaged. | | | |
| 1113 | Lincoln | Limb. | Heartwood. Wavy grain. Fast | | | |
| | | | growth. | | | |
| 1115 | Clackamas | Stem. | Burl. Heartwood. | | | |
| 1116 | Polk | Root. | Heartwood. Wavy grain. | | | |
| 1117 | Lincoln | Stem. | Wart. Heartwood. | | | |
| 1188 | Multnomah | Stem. | Heartwood. | | | |
| | (D | | (DGGI) T | | | |
| | erophylla (Ra | | (FSCL). Tree. | | | |
| 57 | Douglas | Stem. | | | | |
| 324 | Benton | Stem. | | | | |
| 585 | Polk | Stem. | Fast growth. | | | |
| 603 | Clatsop | Stem. | Compression wood. | | | |
| 631 | Benton | Stem. | | | | |
| 670 | Coos | Stem. | | | | |
| 673 | Coos | Stem. | Fast growth. | | | |
| 685 | Douglas | Stem. | Compression wood. Pith in- | | | |
| | | | cluded. | | | |
| 723 | Clackamas | Stem. | | | | |
| 751 | Jackson | Stem. | Pith included. Compression wood. | | | |
| 759 | Jackson | Stem. | | | | |
| 1119 | Clackamas | Stem. | Slow growth. | | | |
| 1122 | Benton | Stem. | | | | |
| 1123 | Linn | Stem. | Wart. | | | |
| 1124 | Linn | Stem. | | | | |
| 1125 | Polk | Stem. | | | | |
| 1127 | Tillamook | Limb. | Compression wood. | | | |
| 1128 | Tillamook | Stem. | Crows-foot grain. | | | |
| 1130 | Clackamas | Stem. | Fast growth. Compression wood. | | | |
| | | | Wavy grain. | | | |
| | | | | | | |
| | rtensiana (Bon | | -(FSCL). Tree. | | | |
| 171 | Clackamas | Stem. | | | | |
| 238 | Klamath | Stem. | | | | |
| 745 | Douglas | Stem. | Sap and heart—compression | | | |
| | | | wood. | | | |
| 1120 | Clackamas | Stem. | Wart. | | | |
| 1121 | Klamath | Root. | Wavy grain. | | | |
| | | | | | | |