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# A Bibliography for *Quercus garryana* and Other Geographically Associated and Botanically Related Oaks



## **Compilers**

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# **A Bibliography for *Quercus garryana* and Other Geographically Associated and Botanically Related Oaks**

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## Abstract

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Interest in *Quercus garryana* Dougl. ex Hook., commonly known as Oregon white oak or Garry oak, has increased in recent years as scientists, resource managers, and the general public focus attention on a forest type in decline. To aid those interested in learning what has previously been reported on this species, we have compiled a comprehensive bibliography for *Q. garryana*. This bibliography includes articles published in scientific or technical journals, accepted theses and dissertations, published or widely distributed documents from federal and state organizations, published conference proceedings (as well as chapters from those proceedings), and books (including chapters or articles in edited books). The citations pertain primarily to *Q. garryana*. Some references pertaining to geographically associated oaks, *Q. alba* L. (an eastern species closely related to *Q. garryana*), and general information about the genus *Quercus* also are included. There are 488 citations that refer to *Q. garryana*, 191 that pertain to geographically associated oaks, 131 that pertain to *Q. alba*, and 27 general oak citations. A section entitled "Topics and Keywords" is included to facilitate searching the paper copy of the bibliography for topics of interest. This section lists the citations that pertain to each topic. Keywords are provided for each citation. This bibliography also is available as a portable document format (PDF) file and as an online searchable database.

Keywords: Bibliography, *Quercus garryana*, *Quercus alba*, California oaks.

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## Introduction

Interest in *Quercus garryana*, commonly known as Oregon white oak or Garry oak, has increased in recent years (fig. 1) as scientists, resource managers, and the general public focus attention on a forest type in decline. *Quercus garryana* has a lower maximum height than its conifer associates, and in the absence of fire, conifers become established in oak stands and eventually shade the oaks out. The species was historically maintained by both natural fires and prescribed fires set by Native Americans. Early European settlement resulted in displacement of Native Americans (and their historical burning activities), suppression of natural fires, and conversion of many oak woodlands and associated prairies into agricultural, and later, urban uses. In addition, some landowners have chosen to convert oak woodlands to coniferous forests to maximize wood production. Recent interest in the species has been triggered, in part, by concerns over wildlife species associated with oak trees or stands (such as the western gray squirrel (*Sciurus griseus*), which is listed as a threatened species in the state of Washington); general issues of regional biodiversity; and increased recognition that without management intervention, oak cover within the region will continue to decline.

We began studying *Q. garryana* in the late 1990s and, as a part of that project, developed a database of references on the species. In our interactions with natural resource managers and researchers working with *Q. garryana*, we learned that others would benefit from our bibliography. Some might question the value in publishing a bibliography that would quickly become out of date when many people have access to electronic databases that can access scientific literature. We have found that many electronic databases, however, do not include older references, university theses or dissertations, or limited-distribution reports prepared by or for public agencies. Student theses do not appear in the large reference databases such as Forestry Abstracts or Agriculture On-Line; they can be located with online searches at many universities, but most university libraries and electronic databases only contain theses associated with their

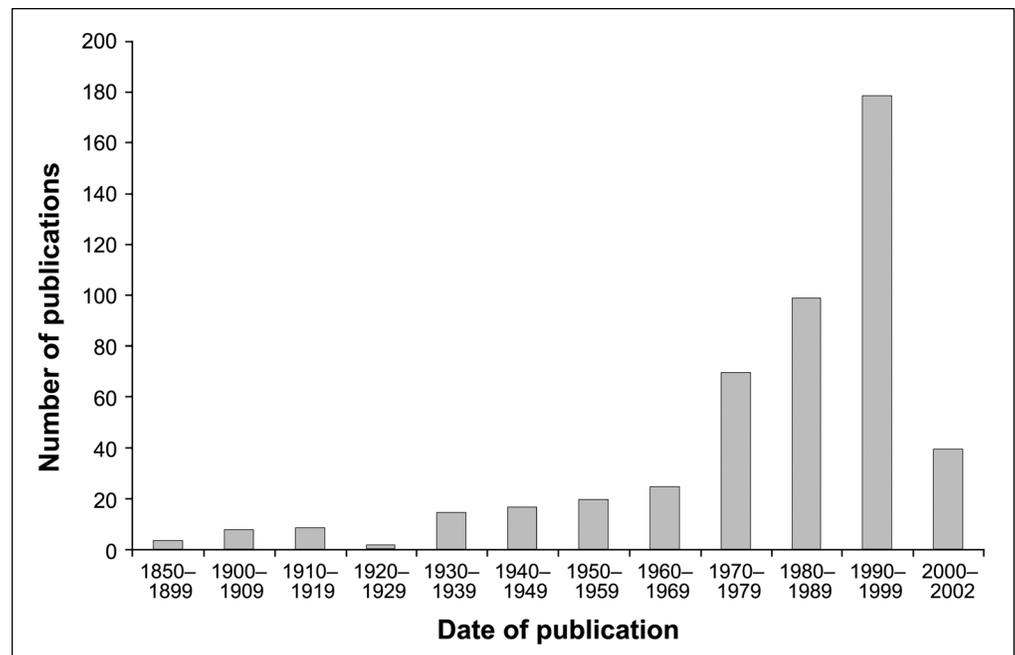


Figure 1—Dates of *Quercus garryana* publications. Note: All date ranges except the first and last represent a 10-year interval.

own degree programs. Most electronic searches are limited to the words in the title, keywords, or abstract of the reference. There are many other documents that contain useful information on a species but do not mention the species in the electronic search phrases, and thus, will not appear in the search results. We also discovered that existing lists of references, including the published bibliography for California oaks (Griffin et al. 1987), the citations in the updated *Silvics of North America* (Burns and Honkala 1990), and reference lists developed by several natural resource professionals have little overlap in their citations. Thus, we decided to compile a fairly comprehensive bibliography for *Q. garryana* (and associated species—see discussion below) and make it available in both hardcopy and two types of electronic formats. This bibliography will facilitate literature searching by natural resource managers and researchers.

## What Is Included

Our bibliography includes articles published in scientific or technical journals, accepted theses and dissertations, published or widely distributed documents from federal and state organizations, published conference proceedings (and chapters in those proceedings), and books (including chapters or articles from edited books). The most common citation is for journal articles; however, papers presented at conferences, workshops, or symposia, and technical reports also are well represented (fig. 2). The citations primarily pertain to *Q. garryana*. We have included some references pertaining to geographically associated oaks (oaks whose geographical range overlaps that of *Q. garryana* in southern Oregon and northern California); white oak (*Q. alba*); and general information on the genus *Quercus*. Citations pertaining to other western oaks are included because of the potential similarity in soils, climatic conditions, associated vegetation, damaging agents, and dispersal mechanisms. Some basic references on *Q. alba* are included because

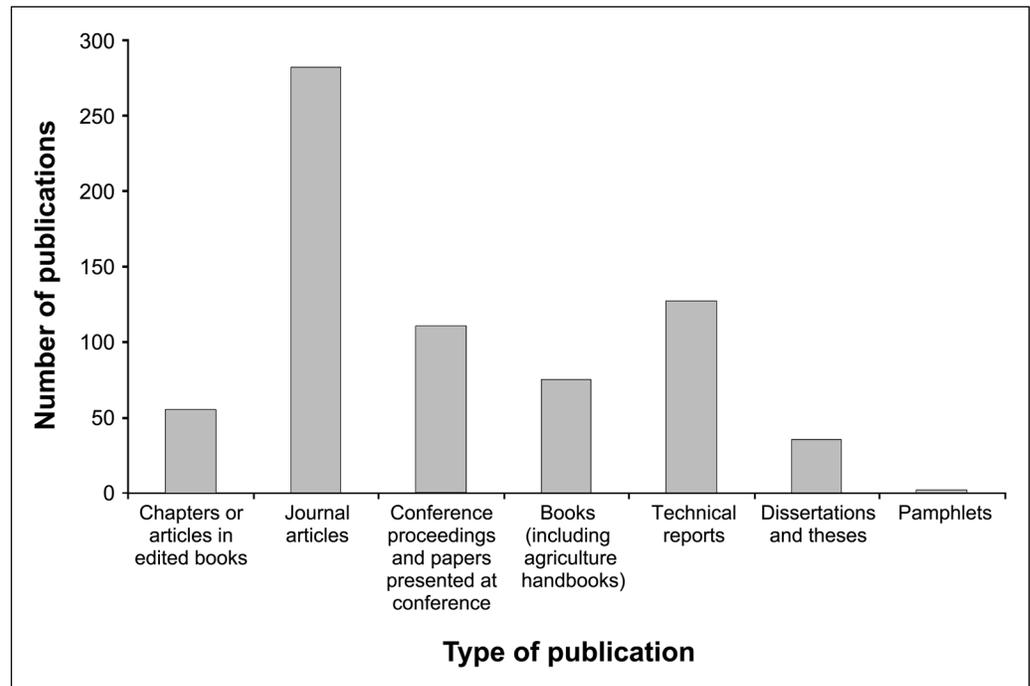


Figure 2—Types of *Quercus garryana* publications incorporated in this bibliography include chapters or articles in edited books, journal articles, conference proceedings and papers presented at conferences, books (including agriculture handbooks), technical reports, dissertations and theses, and pamphlets.

*Q. alba* and *Q. garryana* are closely related botanically (Daubenmire 1978). Therefore, information on *Q. alba* biology and response to management may be pertinent. We do not include *Q. alba* references that primarily relate to forest inventory, tree distribution, marketing, forest products, pollution or other damaging agents, or plant community descriptions. There are 488 citations that refer to *Q. garryana*, 191 citations pertaining to California and southern Oregon oaks, 131 citations pertaining to *Q. alba*, and 27 general *Quercus* citations. Many of the citations pertaining to California and southern Oregon oaks, as well as a few citations pertaining to *Q. alba*, also refer to *Q. garryana*. Our formal literature search ended December 31, 2000. Several publications beyond that date were brought to our attention and have been included.

Approximately 8 percent of the references listed in this bibliography are available online, including standard references such as *Silvics of North America* (Burns and Honkala 1990), and the updated *Seeds of Woody Plants in the United States* (Bonner, in press). We include the universal resource locator (URL or Web site address) for these references. In the last few years, the research stations of the USDA Forest Service have begun making current publications and some selected older publications available electronically. We have included the URLs for Forest Service publications currently available online. We also have included the URL for the "Core Historical Literature of Agriculture" Web site at Cornell University, as several historical books are available in their entirety on this Web site and can be searched for keywords. In recent years, many journal abstracts, or entire journal articles, also have become available online. We do not include those URLs because they tend to be less stable and because most services that provide the whole article are on trial or subscription bases. We cannot guarantee the stability of the provided Web sites over time; we hope, however, that they will function long enough to be useful to users of this bibliography.

## **What Is Not Included**

This bibliography does not include references to newspaper articles, articles in popular magazines, or reports that would not be available from the issuing agency or in major libraries. Although we included some local or regional floras, we did not attempt to be inclusive in listing such floras. We did not include references that duplicated an earlier version or a less available version unless additional information was provided. We did not include references on prairie plants or prairie restoration unless the reference included information pertaining to oak.

## **Bibliography Availability and Future Additions**

This bibliography (as well as other Pacific Northwest Research Station (PNW) publications) is available as a printed document and as an electronic portable document format (PDF) file online at the PNW Web site (<http://www.fs.fed.us/pnw>). We will post periodic updates to the bibliography on our *Q. garryana* Web site (<http://www.fs.fed.us/pnw/olympia/silv/publications/oak>). This bibliography also is available as a searchable database online and can be accessed through the publications page of the *Q. garryana* Web site. The database will be updated periodically. We encourage readers to send citations for inclusion in the updates (see mailing and e-mail addresses inside the front cover of the printed document). It would be helpful to us if you could provide abstracts, along with the citation or title page, from theses and dissertations, or state, county, or private organization publications as these are the most time consuming references to obtain.

## Searching with Adobe Acrobat® Reader™

The PDF file on the PNW Web site can be searched by using the free Adobe Systems Incorporated Acrobat® Reader™.<sup>1</sup> The link for downloading the reader is available on the PNW Web site. To find a keyword in the document, click on the binoculars icon in the main toolbar. This will bring up a “find” dialogue box. The “find” dialogue box will remain open with a “find again” option for repeated searching. Click “find again” or press the “Enter” key on the keyboard to find subsequent incidences of the same keyword. Versions of Adobe Acrobat® Reader™ earlier than 5.0 have a more simplistic “find” function that needs to be reactivated to find each incidence of a keyword (there is no “find again” option). We encourage users to download the most recent version of the reader to take advantage of the “find again” feature.

## Using Reference Web Poster®

The searchable database was constructed by using Reference Web Poster®, a collaborative tool for sharing bibliographic references on the Internet. The database can be accessed by anyone with an Internet browser and can be searched online by keyword, author, date, title, or a combination of search parameters (e.g., multiple keywords, or keywords and dates). For the most accurate search results, the keyword field should be searched by using the exact keywords or phrases contained in the keyword lists. The keywords are listed in the “Topics and Keywords” section of this document and are available on the Web site as part of the instructions. The keyword field also can be searched by using a wild-card search. The title field can be searched for any word or phrase contained in the title. The entire bibliography or a selected subset of the bibliography can be exported into any Reference Manager®, ProCite®, or End Note® database. Instructions for use of the searchable database are outlined on our *Q. garryana* Web site.

## Obtaining References

Many of the references cited in the bibliography can be obtained directly from your local library or can be requested through an interlibrary loan. Most scientific and technical journals can be found in university libraries. Theses and dissertations can be obtained from the university at which the document was completed. Some of the references cited are not widely available, as indicated by the words “not widely available” after the citation. Please do not request references from the compilers.

## Getting Started

The section entitled “Topics and Keywords” can facilitate your search for citations pertaining to a given subject. Look through the broad topics and associated keywords to find your subject. A list of citations associated with these keywords is given under each broad topic. The citations in the bibliography contain a list of keywords as well. Therefore, if you are using a paper copy of the bibliography, look through the citations to find the keywords that interest you (see “Topics and Keywords” for more information about the lists of citations). If you are using the PDF document, search for the keyword(s) of interest to find the citations that pertain to those keywords.

The topic “Links to Other Information Sources” can be helpful. Many of these links indicate that the reference can be obtained electronically on the Internet. Other links refer to citations for symposia proceedings that contain many references included in the bibliography (as well as some references not included in the bibliography but pertaining to related subjects).

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<sup>1</sup> The use of trade or firm names in this publication is for reader information and does not imply endorsement by the U.S. Department of Agriculture of any product or service.

## Topics and Keywords

Sections follow for several broad subject matter topics, along with more specific keywords used in the bibliography, and the references that fall into each category. A publication is listed in all categories that apply. For example, a reference on the nutritional value of *Q. garryana* acorns may be listed under the topics flowering and acorn production, wildlife occurrence and use, and management and use by Native Americans. The citations listed under each topic are separated into three categories: those that refer to *Q. garryana* are in **bold** typeface; those that refer to California oaks are in *italics*; and those that refer to *Q. alba* are in parentheses. An asterisk (\*) after a citation indicates that the citation pertains to a variety or hybrid of one of the above. Citations in plain text refer to the genus *Quercus*. If a reference refers to both *Q. garryana* and another *Quercus* species, the reference will appear in **bold** typeface in the topics section as *Q. garryana* takes precedence over other *Quercus* species in this bibliography. References pertaining to varieties and hybrids of *Q. garryana*, or *Quercus* species other than *Q. garryana* (e.g., California oak species), are listed in the “Species” section by scientific name to facilitate the separation of citations referring to *Q. garryana* and those referring to its varieties and hybrids, or other species. Only references that refer to *Q. garryana* are listed in the “Locations” section.

## Scientific and Common Names

Scientific and common names of *Quercus* species and *Q. garryana* varieties found in this bibliography follow the nomenclature used by Little (1979).

<b>Scientific name and authority</b>	<b>Common name(s)</b>
<i>Quercus agrifolia</i> Née	Coast live oak
<i>Quercus alba</i> L.	White oak
<i>Quercus chrysolepis</i> Liebm.	Canyon live oak
<i>Quercus douglasii</i> Hook. & Arn.	Blue oak
<i>Quercus dumosa</i> Nutt.	Coastal scrub oak
<i>Quercus engelmannii</i> Greene	Engelmann oak
<i>Quercus garryana</i> Dougl. ex Hook.	Oregon white oak, Garry oak
<i>Quercus garryana</i> Dougl. ex Hook. var. <i>breweri</i> (Engelm.) Jepson	Brewer oak
<i>Quercus garryana</i> Dougl. ex Hook. var. <i>semota</i> Jepson	Shin oak
<i>Quercus kelloggii</i> Newb.	California black oak
<i>Quercus lobata</i> Née	Valley oak
<i>Quercus rubra</i> L.	Northern red oak
<i>Quercus sadleriana</i> R. Br. Campst.	Deer oak
<i>Quercus wislizeni</i> A. DC.	Interior live oak

## Locations

### California

**Keyword:** California.

American Forestry Association 1998; Anderson and Pasquinelli 1984; Appel 1994; Asher 1980; Axelrod 1977; Bainbridge 1987; Barnes 1991; Barnhardt et al. 1987; Barnhart et al. 1991, 1996; Barrett 1980; Bissell and Strong 1955; Bleier et al. 1993; Block and Morrison 1991, 1998; Block et al. 1992\*; Bolander 1865; Bolsinger 1987, 1988, 1989; Brooks and Merenlender 2001; Chesnut 1902; Clark 1937; Cornell 1985; Critchfield 1971\*; Dayton 1931; Duffield 1940; Duncan and Clawson 1980; Dunn 1980; Eastwood 1946; Erickson 1993a, 1993c; Frost et al. 1997; Gardner et al. 1972; Graves 1980; Griffin 1966, 1967, 1976, 1977, 1980; Griffin and Critchfield 1972; Griffin et al. 1987; Groncki 1980; Hann 1994; Hastings et al. 1997; Holland 1986; Holmes 1990; Hornibrook et al. 1950; Jackson et al. 1998; Jepson 1910; Keeler-Wolf 1990; Kie 1984; Kuchler 1977; Litton 1980; Loomis et al. 1995; Mackie 1903; McBride and Mossadegh 1990; McDonald et al. 1983; Mirov 1945; Montfort 1895; Morrison et al. 1991; Muick and Bartolome 1985, 1987; Muller 1938; Munz and Keck 1973; Murphy 1980; Muth 1976, 1980; Opler 1974; Pavlick et al. 1991; Paysen 1980; Piekielek and Burton 1975; Pillsbury and Kirkley 1984; Pillsbury and McCaskill 1991; Pillsbury et al. 1997; Plumb 1980; Plumb and McDonald 1981; Plumb and Pillsbury 1987; Raabe 1980; Reed and Sugihara 1987; Roberts 1983, 1987; Rossi 1980; Rundel 1980; Saenz 1983; Saenz and Sawyer 1986; Sampson and Jespersen 1963; Sawyer et al. 1977; Shelly 1997a, 1997b; Smith 1952; Standiford 1991, 2002; Stein 1980, 1990; Stienecker and Browning 1970; Sugihara and Reed 1987a, 1987b; Sugihara et al. 1983, 1987; Swiecki et al. 1997; Thomas 1961; Thorne 1976; Tucker 1953, 1958, 1980, 1983; Tunison 1973; Twisselmann 1967; Vasek and Thorne 1977; Veihmeyer and Johnston 1944; Wainwright and Barbour 1984; Wilson et al. 1991; Wolf 1945; Zinke 1977.

### Oregon

**Keywords:** Oregon, Willamette Valley.

Anderson 1970, 1972; Atzet and McCrimmon 1990; Atzet et al. 1996; Beckham et al. 1981; Benner and Sedell 1997; Blakely et al. 1990; Boag 1988, 1992; Bowen 1978; Boyd 1999a, 1999b; Chambers et al. 1999; Chappell et al. 2001; Chiller et al. 2000; Coblantz 1980; Cole 1977; Dayton 1931; Erickson 1993a, 1993c; Fagan 1885; Franklin 1979; Franklin and Dyrness 1988; Franklin et al. 1972; Garman et al. 1995; Gumtow-Farrior 1991; Gumtow-Farrior and Gumtow-Farrior 1992, 1994; Habeck 1962; Hagar and Stern 2001; Hall 1956; Hall et al. 1959; Hann 1997; Hedrick and Keniston 1966; Hibbs and Yoder 1993; Hylton 1998; Johannessen et al. 1971; Johnson and O'Neil 2001; Kasari et al. 1986; Kirkwood 1902; Kozloff 1976; Lalande and Pullen 1999; Larsen and Hann 1987; Liu 1991; Long et al. 1998; McComb 2001; McDonald et al. 1983; Merrifield 2000; Miller 1990; Minore 1979; Minore and Kingsley 1983; O'Neil and Johnson 2001; Oregon Department of Fish and Wildlife 2000; Oregon Woodland Publications Council and Washington Woodland Council 1963; Overholser 1977; Owen 1953; Peck 1961; Pike 1973, 1978; Raettig et al. 1995; Riegel et al. 1992; Roberts and Whitehead 1984; Saenz 1983; Shaughnessy and O'Neil 2001; Shaw et al. 1998; Smith 1985; Sprague and Hansen 1946; Stein 1990; Stone 1986, 1989; Thilenius 1964, 1968; Towle 1974, 1979, 1982; Voeks 1981; Wang and Hann 1988; Waring 1969; Wells and Anzinger 2001; Williams 2000; Youngberg 1955; Zumrawi and Hann 1989.

## Washington

**Keywords:** Fort Lewis, Olympic Peninsula, Puget Lowlands, Washington.

Agee 1990, 1996a, 1996b; Antieau and Gaynor 1990; Barnosky 1981, 1983; Barnosky et al. 1987; Bayrakci et al. 2001; Bell and Papanikolas 1997; Boyd 1999a; Brubaker 1991; Buckingham et al. 1995; Chappell and Crawford 1997; Chappell et al. 2001; Columbia Gorge Audubon Society 1991; Crawford et al. 1995; Dale et al. 1986; Dayton 1931; Dunn 1998; Dunn and Ewing 1997; Easterly 1994; Erickson 1993a, 1993c; Glendenning 1944; Gorsline 1992; Gumtow-Farrior and Gumtow-Farrior 1994; Hanna and Dunn 1996, 1997; Hansen 1938, 1947a; Hibbert 1979; Johnson and O'Neil 2001; Jones 1936; Kessler 1990; Kozloff 1976; Kruckeberg 1991; Lang 1961; Larsen and Morgan 1998; Leopold and Boyd 1999; Mackey 1984, 1986; Mangum et al. 1911; McComb 2001; McCorquodale 1999; Minore 1979; Norton 1979; Norton et al. 1999; O'Neil and Johnson 2001; Oregon Woodland Publications Council and Washington Woodland Council 1963; Pabst 1995; Papanikolas 1997; Parametrix 1999; Platz 1972; Public Forestry Foundation 1995; Raettig et al. 1995; Regan 2001; Rigg 1913; Rodrick 1986; Ryan 1997; Ryan and Carey 1995a, 1995b; Salstrom 1989; Scheffer 1959, 1960; Shaughnessy and O'Neil 2001; Stein 1990; Taylor and Boss 1975; Thysell and Carey 2001; Tveten 1996, 1997; Tveten and Fonda 1999; Ugolini and Schlichte 1973; Van Pelt 1996; Whitlock 1992; Wilson and Carey 2001; Wilson et al. 1998; Witt 1979.

## British Columbia

**Keywords:** British Columbia.

Allen et al. 1996; Barnosky et al. 1987; Belland 1997; Bennett 1993a, 1993b; British Columbia Ministry of Environment, Lands and Parks 1997; Broersma 1973; Bruemmer et al. 2000; Ceska 1993; Ceska and Ceska 1988; Chatwin 1993; Cooper et al. 1998; Donovan and Douglas 2001; Douglas and Illingworth 1996; Douglas et al. n.d.; Duncan 1993; Erickson 1993a, 1993b, 1993c, 1996, 2000; Evans 1970, 1985; Fuchs 1998; Fuchs et al. 1997, 2000a, 2000b; Garry Oak Ecosystems Recovery Team 2001; Glendenning 1944; Guppy 1993; Hebda 1983, 1993; Hebda and Aitkens 1993; Hebda and Allen 1993; Heusser 1983; Hunter and Lindgren 1995; Illingworth and Douglas 1996a, 1996b, 1999; Jamieson and Douglas 1998; Janszen 1977, 1981; Klinka et al. 1979, 1989, 1996; Kozloff 1976; Krajina 1965; Maier 1993; McMinn et al. 1976; McPhee et al. 2000; Nature Conservancy of Canada 2000; Orchard 1993; Ovaska and Engelstoft 2001; Penny and Douglas 1999, n.d.; Pojar 1980a; Roemer 1972, 1993; Rohlf 1999; Ryan 1985, 1993; Ryan and Douglas 1995a, 1995b, 1996a, 1996b, 1996c, 1999a, 1999b; Shepard 1998, 2000a, 2000b; Smith 1993, 1995; Taylor and Taylor 1977; Turner 1999; Turner and Bell 1971; Ussery 1993, 1997; Ussery and Krannitz 1998; Ward et al. 1998; Warren 1952; Weber 1980; Whitford and Craig 1918; Zirul 1967.

## Species

### *Quercus alba*

(Abrams and Copenheaver 1999); (Adams and Rieske 2001); (Anderson 1984); (Auchmoody and Hammack 1975); (Auchmoody and Smith 1979); (Bainbridge 1987); (Barnett 1977); (Beck 1993); (Bergman 1949); (Bonner 1976, 1993); (Boyd 1949); (Brown and Woods 1968); (Burns and Honkala 1990); (Cain and Shelton 2000); (Carpenter and Guard 1954); (Carvell 1967); (Carvell and Tryon 1961); (Cecich 1997); (Cecich and Sullivan 1999); (Clausen 1983); (Cochard and Tyree 1990); (Coe and McLaughlin 1980); (Conner et al. 1996); (Dale 1968); (Dixon et al. 1984); (Donnelly and Shane 1986); (Dress and Boerner 2001); (Farmer 1980, 1981); (Farmer et al. 1970);

(Foster and LeBlanc 1993); (Fox 1982); (Fralish 1994); (Fritts 1962); (Gaiser and Merz 1951); (Geis et al. 1971); (Girton and Park 1942); (Golden et al. 1999); (Graney 1982, 1987, 1997, 1999); (Greenberg 2000, 2002); (Greenberg and Parresol 2000); (Greene and Johnson 1994); (Grisez 1975); (Guertin and Ramm 1996); (Gysel 1956, 1958); (Harley and Baldocchi 1995); (Hilt 1985); (Hruska and Ebinger 1995); (Huddle and Pallardy 1999); (Jacquart et al. 1992); (Johnson 1975, 1977); (Joslin and Henderson 1984); (Kittredge and Chittenden 1929); (Kossuth 1975); (Kramer and Decker 1944); (Kuntz 1964); (Larson 1974); (Larson and Palashev 1973); (Larson et al. 1990); (Leach and Givnish 1999); (Loewenstein et al. 2000); (Luxmoore et al. 1981); (Lynch and Bassett 1987); (Maeglin and Quirk 1984); (McGee 1978, 1981, 1986); (McGee and Bivens 1984); (McGinnies 1960); (McShea 2000); (McVickar 1949); (Merkle et al. 1980); (Merz 1953); (Meyer 1967); (Minckler 1957); (Minckler et al. 1973); (Mishra and Feret 1996); (Mogensen 1965); (Mullins et al. 1995); (Nardini and Tyree 1999); (Ojasvi et al. 1991); (Parker and Pallardy 1988); (Perry and Thill 1999); (Rast et al. 1989); (Reich et al. 1980); (Rogers 1990); (Rogers and Hinckley 1979); (Romagosa and Robison 1999); (Roth and Hepting 1943); (Rowlee and Nichols 1900); (Sander 1977); (Scheffer et al. 1949); (Schlesinger 1978); (Schmit et al. 1999); (Schultz and Thompson 1990); (Sharp and Chisman 1961); (Sharp and Sprague 1967); (Shifley and Brand 1984); (Silvertown 1980); (Skinner 1952); (Smith 1962, 1993); (Sork et al. 1993); (Stairs 1964); (Szafoni et al. 1994); (Tillson and Muller 1942); (Timmons et al. 1993); (Trelease 1917); (Trimble and Tryon 1967); (Weigel and Johnson 1997, 1998a, 1998b); (Whitney 1982); (Wichman and Coggeshall 1984); (Williams 1939, 1942a, 1942b); (Williams and Gregoire 1993); (Williamson 1966); (Woodwell 1974); (Wuenscher and Kozlowski 1971a, 1971b).

## California and Southern Oregon Oaks

### ***Quercus agrifolia***

*Barnhart et al. 1996; Bartolome and Standiford 1992; Brooks and Merenlender 2001; Callaway 1992b; Callaway and D'Antonio 1991; Carmen et al. 1987; Critchfield 1971; Griffin 1971; Holland 1986; Koenig and Knops 1995, 1997b; Koenig et al. 1994a, 1996; Loveless and Loveless 1977; Matsuda and McBride 1986; McMinn et al. 1949; Muick 1991; Muick and Bartolome 1987; Munz and Keck 1973; Oberbauer 1991; Pillsbury and Joseph 1991; Sawyer et al. 1977; Standiford 2002; Storer et al. 2001; Thomas 1980; Wainwright and Barbour 1984; Wolf 1945.*

### ***Quercus chrysolepis***

*Block and Morrison 1991; Block et al. 1992; Borchers and Perry 1990; Burns and Honkala 1990; Carmen et al. 1987; Chesnut 1902; Critchfield 1971; Detling 1968; Griffin 1967; Hann and Larsen 1991; Holland 1986; Koenig and Knops 1995, 1997b; Koenig et al. 1996; Mackie 1903; Muick and Bartolome 1987; Munz 1974; Munz and Keck 1973; Oberbauer 1991; Sampson and Jespersen 1963; Sawyer et al. 1977; Standiford 2002; Standiford et al. 1997; Waring et al. 1978.*

### ***Quercus douglasii***

*Adams et al. 1992a, 1992b; Anderson and Pasquinelli 1984; Barnhart et al. 1996; Barry et al. 1997; Bartolome and Standiford 1992; Block and Morrison 1991; Block et al. 1992; Brooks and Merenlender 2001; Burns and Honkala 1990; Callaway 1992a, 1992b; Carmen et al. 1987; Chesnut 1902; Gordon et al. 1989; Graves 1980; Griffin 1966, 1971; Holland 1986; Knops et al. 1997; Koenig and Knops 1995, 1997b; Koenig et al. 1994a, 1996; Mackie 1903; Mallory et al. 1973; Matsuda and McBride 1986; McCreary*

1990; Muick 1991; Muick and Bartolome 1987; Munz 1974; Munz and Keck 1973; Pillsbury and McCaskill 1991; Sampson and Jespersen 1963; Smith 1993; Standiford 2002; Standiford and Appleton 1993; Standiford et al. 1997; Swiecki 1990; Trelease 1917; Tucker 1983; Welker and Menke 1990; Wilson et al. 1991; Wolf 1945.

### ***Quercus kelloggii***

Adams and Morrison 1993; Anderson and Pasquinelli 1984; Barnhart et al. 1996; Bartolome and Standiford 1992; Beckham et al. 1981; Block et al. 1992; Boag 1992; Brooks and Merenlender 2001; Burns and Honkala 1990; Carmen et al. 1987; Chiller et al. 2000; Critchfield 1971; Franklin 1979; Gilkey and Dennis 1975; Goldsmith et al. 1981; Griffin 1967; Hall 1998; Hann and Larsen 1991; Hitchcock and Cronquist 1973; Hitchcock et al. 1964; Holland 1986; Hornibrook et al. 1950; Kie 1984; Koenig and Knops 1995; Koenig et al. 1996; Loomis et al. 1995; McDonald 1980, 1992; McDonald and Ritchie 1994; McDonald and Tappeiner, in press; McMinn et al. 1949; Mielke and Kimmey 1942; Milota 1996; Muick and Bartolome 1987; Munz 1974; Munz and Keck 1973; Oberbauer 1991; Overholser 1977; Piekielek and Burton 1975; Pillsbury and McCaskill 1991; Roberts and Smith 1982; Sackett et al. 1992; Sampson and Jespersen 1963; Sawyer et al. 1977; Shelly 1997b; Smith 1952, 1993; Standiford 2002; Standiford et al. 1997; Stern 1978; Storer et al. 2001; Stoutamire 1951; Tucker 1983; Wainwright and Barbour 1984; Waring et al. 1978; Warren 1980; Wilson et al. 1991; Wolf 1945.

### ***Quercus lobata***

Adams et al. 1992a, 1992b; Bartolome and Standiford 1992; Berman and Bledsoe 1997, 1998; Block and Morrison 1991; Callaway 1992a, 1992b; Carmen et al. 1987; Cornell 1983; Griffin 1971, 1976, 1980; Griggs 1990; Holland 1986; Koenig and Knops 1995, 1997b; Koenig et al. 1994a, 1996; Matsuda and McBride 1986; McCreary 1990; Muick and Bartolome 1987; Munz 1974; Munz and Keck 1973; Roberts 1983; Shelly 1997b; Smith 1993; Standiford 2002; Thomas 1980; Tucker 1980, 1983; Wilson et al. 1991; Wolf 1945.

### ***Quercus garryana* Varieties and Hybrids**

**Keywords:** *Quercus garryana* var. *breweri*, *Quercus garryana* var. *semota*, *Quercus garryana* X *douglasii*, *Quercus garryana* X *Quercus dumosa*, *Quercus garryana* X *Quercus durata*, *Quercus garryana* X *Quercus lobata*, *Quercus garryana* var. *breweri* X *Quercus douglasii*, *Quercus garryana* var. *breweri* X *Quercus sadleriana*, *Quercus douglasii* X *garryana*, *Quercus* X *eplingi*, *Quercus* X *howellii*, *Quercus* X *subconvexa*.

**Asher 1980\***; Barnhart et al. 1991\*; Block and Morrison 1998\*; Bolsinger 1988\*, 1989\*; Bonner, in press\*; Burns and Honkala 1990\*; Chappell et al. 2001\*; Clark 1937\*; Critchfield 1971\*; Dayton 1931\*; Dunn 1980\*; Erickson 1993a\*; Gardner et al. 1972\*; Graves 1980\*; Griffin and Critchfield 1972\*; Griffin et al. 1987\*; Howard 1992\*; Jepson 1909\*, 1910\*; Johnson and O'Neil 2001\*; Li and Hsiao 1973–74\*; Mirov 1945\*; Morrison et al. 1991\*; Muller 1951\*; Munz 1974\*; Munz and Keck 1973\*; Muth 1976\*, 1980\*; Nixon 1997\*; Pavlick et al. 1991\*; Plumb and McDonald 1981\*; Roberts 1983\*; Rundel 1980\*; Saenz 1983\*; Shaughnessy and O'Neil 2001\*; Stein 1990\*; Stienecker and Browning 1970\*; Sudworth 1908\*; Trelease 1917\*; Tucker 1953\*, 1980\*; Tunison 1973\*; Twisselmann 1967\*; USDA NRCS 1999\*; Waring 1969\*; Wolf 1945\*.

## General Oak

Beck 1993; Bonner and Vozzo 1987; Burger 1975; Chaney 1947; Ducouso et al. 1993; Duffield 1940; Eyre 1975; Gardner et al. 1972; Heusser and King 1988; Larsen and Johnson 1998; McShea and Healy 2002; Merz and Boyce 1956; Miller and Lamb 1985; Muller 1942; Packard and Mutel 1997; Rogers and Johnson 1998; Rogers and Spiecker 1998; Rohrig 1991; Smith and Stapanian 2002; Smith et al. 1990; Sutherland 1999; Sutton and Mogensen 1970; Van Dersal 1940; Van Lear 1993; Weaver and Jones 1980; Whitehead 1983.

## Topics

### Anatomy

**Keywords:** Fibers, parenchyma cells, stomata, tracheids, tyloses, vessels, xylem. (Bergman 1949); (Boyd 1949); (Cochard and Tyree 1990); **Evans 1996**; (Harley and Baldocchi 1995); **Lei 1995**; **Lei et al. 1996**; **Maeglin and Quirk 1984**; (Meyer 1967); **Williams 1939, 1942a, 1942b**.

### Conservation, Restoration, and Biodiversity

**Keywords:** Biodiversity, conservation, education, habitat protection, preservation, restoration.

*Anderson 1996*; **Antieau and Gaynor 1990**; **Arno 2000**; *Bartolome and Standiford 1992*; **Bayrakci et al. 2001**; **Bell and Papanikolas 1997**; **Belland 1997**; **Bleier et al. 1993**; *Bush and Thompson 1990*; **Chiller et al. 2000**; **Crawford et al. 1995**; **Douglas and Illingworth 1996**; **Dunn 1998**; **Dunn and Ewing 1997**; **Easterly 1994**; **Erickson 1993b, 1996, 2000**; **Ewing 1990**; **Fuchs 1998**; **Garry Oak Ecosystems Recovery Team 2001**; *Giusti et al. 1991*; *Griggs 1990*; **Gumtow-Farrior and Gumtow-Farrior 1994**; **Hagar and Stern 2001**; **Hanna and Dunn 1996, 1997**; **Hardy and Arno 1996**; **Hastings et al. 1997**; **Hebda and Aitkens 1993**; **Illingworth and Douglas 1996b**; **Keay 1993**; **Klinka et al. 1996**; **Larsen and Morgan 1998**; (Leach and Givnish 1999); **Linders 2000**; **Litton 1980**; **McCorquodale 1999**; **McPhee et al. 2000**; **Nature Conservancy of Canada 2000**; *Oberbauer 1991*; **Opler 1974**; *Packard and Mutel 1997*; **Papanikolas 1997**; **Pavlick et al. 1991**; **Pillsbury et al. 1997**; **Plumb and Pillsbury 1987**; **Public Forestry Foundation 1995**; *Raven 1977*; **Regan 2001**; **Roberts 1987**; **Rodrick 1986**; **Ryan and Carey 1995a, 1995b**; **Ryan and Douglas 1995b, 1996a, 1996b, 1996c**; **Saenz 1983**; **Shaughnessy and O'Neil 2001**; **Standiford 1991, 2002**; **Steinhart 1978**; **Sugihara and Reed 1987a**; *Sutherland 1999*; **Timmons et al. 1993**; **Ussery 1993, 1997**; **Ussery and Krannitz 1998**; **Ward 1993**; **Ward et al. 1998**.

### Damaging Agents

**Keywords:** Biological control, browse, decay, defoliation, diseases, frost damage, galls, grazing, insects, mistletoe, mortality, root rot, seed predation, seedling mortality, seedling predation, wasps.

*Adams and Morrison 1993*; (Adams and Rieske 2001); *Adams et al. 1992a, 1992b*; **Allen and Sharpe 1960**; **Allen et al. 1996**; **Amaranthus et al. 1989**; **Anderson and Pasquinelli 1984**; **Appel 1994**; (Barnett 1977); *Bartolome and Standiford 1992*; *Bartolome et al. 1987*; Beck 1993; **Bell and Papanikolas 1997**; **Bennett 1993**; **Bissell and Strong 1955**; **Bleier et al. 1993**; **Bolsinger 1988**; Bonner and Vozzo 1987; (Boyd 1949); *Brown 1980*; **Bruemmer et al. 2000**; **Burns and Honkala 1990**; *Callaway 1992a*; **Chesnut 1902**; **Cheyney 1942**; **Collingwood and Brush 1984**; **Columbia Gorge Audubon Society 1991**; *Cornell 1984, 1985*; **Dale et al. 1986**; **Dayton 1931**; **Doane et al. 1936**; **Donnelly 1997**; **Donnelly and Johnson 1997**; **Duncan 1993**; **Duncan and Clawson 1980**; **Erickson 1993a**; **Essig 1931**; **Evans 1970, 1972, 1985**; *Ewing 1990*; *Ffolliott et al. 1992*; **Fuchs 1998**; **Fuchs et al. 2000a, 2000b**; **Funk 1985**; **Furniss and Carolin 1980**; **Gardner et al. 1972**; *Griffin 1971, 1976*; **Griffin et al.**

1987; (Guertin and Ramm 1996); **Gumtow-Farrior 1991; Guppy 1993; Habeck 1962; Hall 1956; Hall et al. 1959; Hastings et al. 1997; Hebda 1993; Hebda and Aitkens 1993; Hedgcock and Long 1914; Hedrick and Keniston 1966; Hepting 1971; Hessburg 1999; Hibbs and Yoder 1993; Holmes 1990; Howard 1992; Hunter and Lindgren 1995; Jackson et al. 1998; Kasari et al. 1986;** (Kittredge and Chittenden 1929); *Koenig and Knops 1995; Koenig et al. 1994b; Kozloff 1976; Kuntz 1964; Liu 1991; Mackie 1903; Macklin and Thompson 1992; Maier 1993; Mani 1964; McCreary 1990; McCulloch 1940; McDonald et al. 1983; McShea and Healy 2002; Miller 1990; Miller et al. 1991; Minore 1979; Murphy 1980; Nature Conservancy of Canada 2000; Niemiec et al. 1995; Opler 1974; Papanikolas 1997; Pavlick et al. 1991; Raabe 1980; Regan 2001; Roberts 1983; Robinson 1937;* (Rogers 1990); *Rohlf's 1999; Roland 1994; Roland et al. 1995;* (Romagosa and Robison 1999); **Rossi 1980;** (Roth and Hepting 1943); **Rundel 1980; Saenz 1983; Saenz and Sawyer 1986; Sakai and Weiser 1973; Salstrom 1989; Sampson and Jespersen 1963;** (Sander 1977); **Scheffer 1959, 1960; Scheffer et al. 1949; Schettler and Smith 1980; Schowalter 1992; Shaw et al. 1998; Shepard 1998, 2000a, 2000b; Silen 1958, 1965;** (Silvertown 1980); *Smith (1962), 1985, 1993, 1995; Smith et al. 1990; Solomon 1995; Standiford 2002; Standiford and Appleton 1993; Stein 1980, 1990; Steinhart 1978; Storer et al. 2001; Sugihara and Reed 1987a; Swiecki 1990; Swiecki et al. 1997; Thomas 1980;* (Timmons et al. 1993); **Van Dersal 1940; Van Lear 1993; Veihmeyer and Johnston 1944; Verner 1980; Voeks 1981; Welker and Menke 1990; Wilson 1992, 1995; Wilson and Carroll 1994, 1997; Youngberg 1955.**

## **Ecological Processes**

**Keywords:** Disturbance, fire, invasion, nutrient cycling, succession.

(Abrams and Copenheaver 1999); (Adams and Rieske 2001); **Agee 1990, 1993, 1996a, 1996b; Allen and Sharpe 1960; Alverson 1993; Amaranthus et al. 1989; Anderson 1980, 1996; Arno 2000; Atzet and McCrimmon 1990; Barnhardt et al. 1987; Barnhart et al. 1996; Bleier et al. 1993; Bowen 1978; Boyd 1999a, 1999b;** (Cain and Shelton 2000); (Carvell and Tryon 1961); **Chappell et al. 2001; Cheyney 1942; Chiller et al. 2000; Cole 1977; Columbia Gorge Audubon Society 1991; Dale et al. 1986; Douglas and Illingworth 1999;** (Dress and Boerner 2001); **Dunn 1980; Dunn and Ewing 1997; Easterly 1994; Erickson 1993a, 1993b, 1996, 2000; Ffolliott et al. 1992; Franklin and Hemstrom 1981; Franklin et al. 1972; Griffin 1976, 1977, 1980; Habeck 1961, 1962; Hagar and Stern 2001; Hall 1982; Hanna and Dunn 1997; Hansen 1938, 1947a, 1947b; Hardy and Arno 1996; Hastings et al. 1997; Hessburg 1999; Heusser 1983; Hibbert 1979; Holmes 1990; Howard 1992;** (Hruska and Ebinger 1995); (Huddle and Pallardy 1999); **Hylton 1998; Illingworth and Douglas 1996b; Jackson et al. 1998; Jepson 1909; Johannessen et al. 1971; Jones 1936; Kertis 1986; Kie 1984;** (Kittredge and Chittenden 1929); **Klinka et al. 1996; Knops et al. 1997; Lalande and Pullen 1999; Lang 1961; Larsen and Morgan 1998; Leopold and Boyd 1999; Loftis and McGee 1993; Long et al. 1998;** (Luxmoore et al. 1981); **Mangum et al. 1911; McComb 2001;** (McGee 1986); **McMinn et al. 1976; McPhee et al. 2000; McShea and Healy 2002; Miller and Lamb 1985; Minore and Kingsley 1983; Nature Conservancy of Canada 2000; Niemiec et al. 1995; Pabst 1995; Packard and Mutel 1997; Pike 1978; Public Forestry Foundation 1995; Reed and Sugihara 1987; Regan 2001; Ryan and Douglas 1995b, 1996a, 1996b, 1996c, 1999a; Sackett et al. 1992; Salstrom 1989; Smith 1985; Sprague and Hansen 1946; Standiford 2002; Stone 1986, 1989; Stoutamire 1951; Stuart 1987; Sugihara and Reed 1987a, 1987b; Sugihara et al. 1983, 1987; Sutherland 1999; Thilenius 1964, 1968; Thysell and Carey 2001; Towle 1974, 1979, 1982; Tunison 1973; Turner 1999; Tveten 1996, 1997; Tveten and Fonda 1999; Ussery 1993, 1997; Van Lear 1993; Veihmeyer and Johnston 1944; Ward et al. 1998; Waring and Franklin 1979; Wells and Anzinger 2001; Williams 2000; Wilson and Carey 2001;** (Woodwell 1974); **Zinke 1977.**

## Environmental Conditions

**Keywords:** Air temperature, climate, climatic changes, environmental factors, environmental gradients, light, meteorological conditions, microclimate, precipitation, shade, soil moisture, soil temperature, temperature.

*Adams et al. 1992b*; **Alverson 1993**; **Amaranthus et al. 1989**; (Anderson 1984); **Anderson and Pasquinelli 1984**; **Antos and Allen 1990**; **Atzet and McCrimmon 1990**; (Auchmoody and Smith 1979); **Axelrod 1977**; **Baker 1949**; **Barnes 1991**; **Barnhardt et al. 1987**; **Barnhart et al. 1991**; **Barnosky 1981, 1983**; **Barnosky et al. 1987**; Beck 1993; **Beckham et al. 1981**; **Bell and Papanikolas 1997**; *Brabb 1961*; **Braun-Blanquet et al. 1932**; **Broersma 1973**; **Brooks and Merenlender 2001**; **Brubaker 1991**; **Buckingham et al. 1995**; **Burns and Honkala 1990**; *Callaway 1992a, 1992b*; (Carvell and Tryon 1961); (Cecich 1997); (Cecich and Sullivan 1999); **Cheyney 1942**; (Cochard and Tyree 1990); (Coe and McLaughlin 1980); **Dale et al. 1986**; (Donnelly and Shane 1986); (Dress and Boerner 2001); **Duffield 1940**; **Erickson 1993a**; (Foster and LeBlanc 1993); (Fralish 1994); **Franklin et al. 1972**; (Fritts 1962); **Garrison et al. 1977**; (Geis et al. 1971); *Gordon et al. 1989*; **Griffin 1967, 1977, 1971**; (Gysel 1956); **Hall et al. 1959**; **Hansen 1938, 1947a, 1947b**; **Hebda 1993**; **Hedrick and Keniston 1966**; **Heusser 1983**; **Howard 1992**; **Hunter and Lindgren 1995**; (Jacquart et al. 1992); **Janszen 1977**; (Johnson 1975); (Kittredge and Chittenden 1929); **Klinka et al. 1996**; *Koenig and Knops 1995, 1997b*; *Koenig et al. 1996*; **Krajina 1965, 1969**; (Kramer and Decker 1944); **Krygier 1971**; **Lang 1961**; Larsen and Johnson 1998; (Larson 1974); (Larson and Palashev 1973); (Leach and Givnish 1999); **Leopold and Boyd 1999**; (Luxmoore et al. 1981); **Mangum et al. 1911**; *Matsuda and McBride 1987, 1989*; **McBride and Mossadegh 1990**; **McCulloch 1940**; **McDonald et al. 1983**; **McMinn et al. 1935, 1976**; **McPhee et al. 2000**; *Mielke and Kimmey 1942*; (Minckler et al. 1973); **Minore 1979**; **Minore and Kingsley 1983**; *Muick 1991*; (Mullins et al. 1995); **Nature Conservancy of Canada 2000**; **Niemiec et al. 1995**; **Owen 1953**; **Papanikolas 1997**; **Plumb and McDonald 1981**; **Riegel et al. 1992**; **Roemer 1972, 1993**; (Rogers 1990); **Rundel 1980**; *Sackett et al. 1992*; **Saenz 1983**; **Sakai and Weiser 1973**; **Salstrom 1989**; (Sharp and Chisman 1961); (Sharp and Sprague 1967); **Silen 1958, 1965**; **Smith 1993**; **Sprague and Hansen 1946**; **Stein 1990**; **Stone 1986, 1989**; **Stoutamire 1951**; **Sudworth 1908**; **Thilenius 1964, 1968**; **Thomas 1961**; **Towle 1974**; **Tveten 1996**; **Ugolini and Schlichte 1973**; **USDA NRCS 1999**; **Veihmeyer and Johnston 1944**; **Voeks 1981**; **Waring 1969**; **Waring and Franklin 1979**; *Waring et al. 1978*; Weaver and Jones 1980; *Welker and Menke 1990*; Whitehead 1983; **Whitlock 1992**; (Whitney 1982); *Whittaker 1960*; **Wilson and Carroll 1994**; (Wuenschel and Kozlowski 1971a, 1971b); **Youngberg 1955**; **Zinke 1977**; **Zirul 1967**.

## Flowering and Acorn Production

**Keywords:** Acorn development, acorn dispersal, acorn maturation, acorn placement, acorn production, acorns, estimating acorn crops, fertilization, flowering, germination, human food source, nutritional value, wildlife food source.

*Adams et al. 1992a*; **Agee 1993**; (Anderson 1984); **Anderson and Pasquinelli 1984**; **Bainbridge 1987**; (Barnett 1977); **Barrett 1980**; Beck 1993; **Bell and Papanikolas 1997**; **Bennett 1993a**; **Bleier et al. 1993**; **Boag 1992**; **Bock and Bock 1974**; Bonner (1976), (1993), *in press*; Bonner and Vozzo 1987; **Boyd 1999b**; **Britton and Shafer 1908**; *Brown 1980*; **Bruemmer et al. 2000**; **Burns and Honkala 1990**; *Bush and Thompson 1990*; *Carmen et al. 1987*; (Cecich 1997); (Cecich and Sullivan 1999); **Chatwin 1993**; **Chesnut 1902**; **Cheyney 1942**; **Chiller et al. 2000**; **Coblentz 1980**; **Columbia Gorge Audubon Society 1991**; (Conner et al. 1996); **Dayton 1931**; **Doane et al. 1936**; Ducousso et al. 1993; **Duncan and Clawson 1980**; **Erickson 1993a**; **Essig 1931**; (Farmer 1981); (Fox 1982); **Fuchs 1998**; **Fuchs et al. 1997, 2000a, 2000b**;

(Girton and Park 1942); **Glendenning 1944**; (Golden et al. 1999); *Goldsmith et al. 1981*; **Graves 1980**; (Greenberg 2000, 2002); (Greenberg and Parresol 2000); (Greene and Johnson 1994); *Griffin 1971, 1976*; (Grisez 1975); **Gumtow-Farrior and Gumtow-Farrior 1994**; **Gunther 1988**; (Gysel 1956, 1958); **Hagel 1998**; **Hebda 1993**; **Hylton 1998**; **Illick 1924**; **Jepson 1909, 1924**; (Johnson 1975); Kauffman 1990; (Kittredge and Chittenden 1929); *Koenig and Knops 1995, 1997a, 1997b*; *Koenig et al. 1994a, 1994b, 1996*; (Kossuth 1975); **Kruckeberg 1991**; **Larsen and Morgan 1998**; (Larson and Palashev 1973); **Loftis and McGee 1993**; **Macklin and Thompson 1992**; *Matsuda and McBride 1986, 1987, 1989*; *McCreary 1990*; **McCulloch 1940**; *McDonald 1992*; *McDonald and Ritchie 1994*; *McDonald and Tappeiner, in press*; **McDonald et al. 1983**; (McGinnies 1960); (McShea 2000); **McShea and Healy 2002**; (Merkle et al. 1980); **Mirov 1945**; (Mogensen 1965); *Motz 1997*; *Muick 1991*; **Muth 1976**; **Niemiec et al. 1995**; **Nixon 1997**; **Norton 1979**; **Olson 1974**; **Owen 1953**; **Parametrix 1999**; **Pavlick et al. 1991**; **Peattie 1953**; (Perry and Thill 1999); **Piekielek and Burton 1975**; **Pojar and MacKinnon 1994**; **Regan 2001**; *Roberts 1976*; *Roberts and Smith 1982*; **Rodrick 1986**; (Rogers 1990); **Rohlf 1999**; **Rose et al. 1998**; **Ryan 1997**; **Sampson and Jepsen 1963**; **Scheffer 1959, 1960**; *Schettler and Smith 1980*; (Sharp and Chisman 1961); (Sharp and Sprague 1967); **Silen 1958, 1965**; (Silvertown 1980); Smith (1962), **1993**; **Smith and Stapanian 2002**; Smith et al. 1990; (Sork et al. 1993); (Stairs 1964); **Stein 1990**; **Stienecker and Browning 1970\***; **Sugihara and Reed 1987a**; Sutton and Mogensen 1970; *Swiecki 1990*; (Timmons et al. 1993); (Trimble and Tryon 1967); **Van Dersal 1940**; Van Lear 1993; *Verner 1980*; **Voeks 1981**; **Weber 1980**; Whitehead 1983; **Whitney 1989**; (Williamson 1966); **Wilson et al. 1998**; **Wolf 1945**.

## Genetics

**Keywords:** Biodiversity, chemosystematics, clones, evolution, genetics, hybridization, taxonomy.

**Anderson and Pasquinelli 1984**; Bonner and Vozzo 1987; Burger 1975; **Burns and Honkala 1990**; **Crawford et al. 1995**; Ducouso et al. 1993; **Duffield 1940**; **Erickson 1993a, 1993b**; (Farmer 1981); **Griffin 1966**; **Griffin et al. 1987**; **Hagar and Stern 2001**; **Hebda 1993**; **Irgens-Moller 1955**; *Koenig et al. 1994b*; (Leach and Givnish 1999); **Li and Hsiao 1973–74, 1975–76a, 1975–76b**; **Little 1979**; *McMinn et al. 1949*; **McPhee et al. 2000**; **Muller 1938, 1942, 1951\***; **Muth 1976, 1980\***; **Niemiec et al. 1995**; **Pavlick et al. 1991**; **Roberts 1983**; (Rogers 1990); (Rowlee and Nichols 1900); **Saenz 1983**; **Shaughnessy and O’Neil 2001**; **Silen 1958, 1965**; (Silvertown 1980); (Stairs 1964); **Standiford 2002**; **Stein 1980, 1990**; Sutton and Mogensen 1970; **Taylor and Taylor 1977**; **Tillson and Muller 1942**; **Trelease 1917**; **Tucker 1953, 1974, 1980, 1983**; **Tunison 1973**; **USDA NRCS 1999**; **Ward et al. 1998**; **Waring and Franklin 1979**; Whitehead 1983; **Williams 1939, 1942a, 1942b**.

## Grasslands, Prairies, and Meadows

**Keywords:** Grasslands, meadows, prairie.

**Agee 1996a**; **Allen et al. 1999**; *Anderson 1996*; **Antieau and Gaynor 1990**; **Bayrakci et al. 2001**; **Bowen 1978**; **Chappell and Crawford 1997**; **Chatwin 1993**; **Chiller et al. 2000**; **Crawford et al. 1995**; **Douglas and Illingworth 1996**; **Douglas et al., n.d.**; **Dunn 1998**; **Franklin et al. 1972**; **Guppy 1993**; **Habeck 1961, 1962**; **Hebda and Aitkens 1993**; *Hektner et al. 1983*; **Hylton 1998**; **Illingworth and Douglas 1996b, 1999**; **Johannessen et al. 1971**; **Jones 1936**; **Kruckeberg 1991**; **Lang 1961**; **Leopold and Boyd 1999**; **Macklin and Thompson 1992**; *Muick 1991*; **Norton 1979**; **Norton et al. 1999**; **Orchard 1993**; **Oregon Department of Fish and Wildlife 2000**; **Ovaska and Engelstoff 2001**; **Penny and Douglas 1999, n.d.**; **Reed and Sugihara 1987**; **Rigg 1918**; **Roemer 1972**; **Ryan 1993**; **Ryan and Douglas 1995a, 1995b, 1996b**,

**1996c, 1999b; Saenz 1983; Saenz and Sawyer 1986; Salstrom 1989; Shepard 2000b; Towle 1974, 1982; Tveten 1996, 1997; Tveten and Fonda 1999; Ugolini and Schlichte 1973; Williams 2000; Wilson and Carey 2001.**

## **Growth and Yield**

**Keywords:** FVS, growth, height-diameter equations, inventory, modeling, mortality, ORGANON, yield.

(Abrams and Copenheaver 1999); (Adams and Rieske 2001); *Adams et al. 1992b*; **Amaranthus and Perry 1989**; (Anderson 1984); **Anderson and Pasquinelli 1984**; *Berman and Bledsoe 1997, 1998*; **Bleier et al. 1993**; (Bonner 1976); (Boyd 1949); **Burns and Honkala 1990**; (Cain and Shelton 2000); *Callaway 1992b*; (Carvell 1967); **Cheyney 1942; Chiller et al. 2000**; (Clausen 1983); **Columbia Gorge Audubon Society 1991; Crawford et al. 1995**; (Dale 1968); **Dale et al. 1986**; (Dixon et al. 1984); **Donnelly 1997; Donnelly and Johnson 1997**; (Donnelly and Shane 1986); (Dress and Boerner 2001); (Farmer 1980); *Ffolliott et al. 1992*; (Foster and LeBlanc 1993); (Fralish 1994); **Franklin and Hemstrom 1981**; (Fritts 1962); (Gaiser and Merz 1951); **Garman et al. 1995; Gordon et al. 1989**; (Graney 1982, 1987, 1997, 1999); (Guertin and Ramm 1996); **Hann 1994, 1997; Hann and Larsen 1991**; Hann et al. 1997; **Hanus et al. 1999, 2000**; (Harley and Baldocchi 1995); **Hedrick and Keniston 1966**; (Hilt 1985); **Hornibrook et al. 1950**; (Huddle and Pallardy 1999); **Huemmrich and Goward 1997; Hunter and Lindgren 1995**; (Jacquart et al. 1992); (Kittredge and Chittenden 1929); *Knops et al. 1997; Koenig and Knops 1997b*; **Larsen and Hann 1987**; Larsen and Johnson 1998; (Larson 1974); (Larson and Palashev 1973); (Larson et al. 1990); **Lei 1995**; (Luxmoore et al. 1981); **Macklin and Thompson 1992; Matsuda and McBride 1986; McDonald 1980; McDonald and Ritchie 1994; McDonald and Tappeiner, in press**; (McGee 1981); **McWilliams et al. 2002**; (Minckler 1957); **Minore 1979**; (Mishra and Feret 1996); **Nature Conservancy of Canada 2000; Niemiec et al. 1995**; (Ojasvi et al. 1991); **Oregon Woodland Publications Council and Washington Woodland Council 1963; Overholser 1977; Paine and Hann 1982; Papanikolas 1997; Parametrix 1999; Paysen 1980; Pillsbury and Joseph 1991; Pillsbury and Kirkley 1984; Pillsbury and McCaskill 1991; Platz 1972; Plumb and McDonald 1981; Raettig et al. 1995; Regan 2001**; (Reich et al. 1980); **Ritchie and Hann 1987; Roberts and Smith 1982**; (Rogers 1990); (Rogers and Hinckley 1979); Rogers and Johnson 1998; Rogers and Spiecker 1998; (Romagosa and Robison 1999); *Roy 1955*; **Rundel 1980**; (Sander 1977); **Sauerwein 1983; Scheffer 1959**; (Schlesinger 1978); (Schultz and Thompson 1990); (Shifley and Brand 1984); **Silen 1965; Smith 1993**; Smith et al. 1990; **Sprague and Hansen 1946; Standiford et al. 1997; Stein 1990; Stone 1989; Swiecki 1990**; (Szafoni et al. 1994); **USDA NRCS 1999; Wang and Hann 1988; Warren 1980**; (Weigel and Johnson 1997); *Welker and Menke 1990*; (Wichman and Coggeshall 1984); (Williams and Gregoire 1993); **Zumrawi and Hann 1989.**

## **Historical Distribution and Analyses**

**Keywords:** Historical distribution, late-Quaternary history, macrofossils, pollen analysis.

**Allen et al. 1999; Atzet and McCrimmon 1990; Axelrod 1977; Barnosky 1981, 1983; Barnosky et al. 1987; Beckham et al. 1981; Benner and Sedell 1997; Boag 1988, 1992; Brubaker 1991; Buckingham et al. 1995; Chaney 1947; Erickson 1993b; Habeck 1961; Hansen 1938, 1947a, 1947b; Hebda 1983; Hebda and Aitkens 1993; Hebda and Allen 1993; Heusser 1983; Heusser and King 1988; Hibbert 1979; Jepson 1910; Johannessen et al. 1971; Jones 1936; Lang 1961; Leopold and Boyd 1999; Long et al. 1998; Mangum et al. 1911; Roberts and Whitehead 1984; Roemer 1972; Standiford 2002; Towle 1982; Ugolini and Schlichte 1973; Wells and Anzinger 2001; Whitlock 1992; Zirul 1967.**

## Links to Other Information Sources

**Keywords:** Bibliography, URL, proceedings.

**Bailey 1909; Barry et al. 1997;** (Beck 1993); *Berman and Bledsoe 1997*; **Betts 1919;** Bonner (1993), *in press*; Bonner and Vozzo 1987; (Boyd 1949); **Braun-Blanquet et al. 1932; Britton and Shafer 1908; Brown 1935; Burns and Honkala 1990; CAB International 2000; Cheyney 1942; Doane et al. 1936; Donnelly 1997; Donnelly and Johnson 1997; Dunn and Ewing 1997; Erickson 1993a; Essig 1931; Ffolliott et al. 1992; Frost et al. 1997; Fuchs et al. 1997; Garry Oak Ecosystems Recovery Team 2001;** (Golden et al. 1999); (Graney 1982, 1987, 1997, 1999); (Greenberg and Parresol 2000); **Griffin et al. 1987; Hagel 1998; Halbert 1931; Hastings et al. 1997;** (Haywood 1999); **Hebda and Aitkens 1993; Howard 1992; Illick 1924; Jepson 1909, 1924; Knops et al. 1997; Koenig and Knops 1997b; Loftis and McGee 1993;** (McGee 1978, 1981); **McMinn et al. 1935; Motz 1997;** (Mullins et al. 1995); **Nixon 1997; Pillsbury et al. 1997; Plumb 1980; Plumb and Pillsbury 1987;** (Rogers 1990); (Romagosa and Robison 1999); **Roth 1902; Shelly 1997a, 1997b; Smith 1993; Snow 1917; Society of American Foresters 1950; Standiford 1991; Stein 1990; Swiecki et al. 1997; USDA NRCS 1999; Van Lear 1993; Washburn et al. 1933.**

## Management After Stand Establishment

**Keywords:** Fertilizer application, irrigation, management, prescribed fire, pruning, release, silvicultural treatments, thinning.

(Adams and Rieske 2001); **Agee 1990, 1993, 1996b; Amaranthus et al. 1989; Anderson 1980, 1996; Anderson and Pasquinelli 1984; Asher 1980; Atzet and McCrimmon 1990; Barnhardt et al. 1987; Barnhart et al. 1996; Barrett 1980; Barry et al. 1997; Bartolome and Standiford 1992; Bleier et al. 1993; Block and Morrison 1991;** (Boyd 1949); **British Columbia Ministry of Environment, Lands and Parks 1997, 1999; Brown 1980; Bull 1978;** (Cain and Shelton 2000); (Carvell 1967); **Chambers et al. 1999; Chappell et al. 2001; Cheyney 1942; Chiller et al. 2000; Columbia Gorge Audubon Society 1991;** (Dale 1968); **Dale et al. 1986; Dunn 1980, 1998; Dunn and Ewing 1997; Easterly 1994; Erickson 1993a, 1996, 2000;** (Farmer et al. 1970); *Ffolliott et al. 1992; Frost et al. 1997; Fuchs 1998; Giusti et al. 1991;* (Golden et al. 1999); *Goldsmith et al. 1981;* (Graney 1982, 1987, 1997, 1999); (Greenberg 2000); (Greenberg and Parresol 2000); **Griffin et al. 1987; Groncki 1980; Gumtow-Farrior and Gumtow-Farrior 1992, 1994; Hall 1956, 1982, 1998; Hall et al. 1959; Hanna and Dunn 1996, 1997; Hardy and Arno 1996; Hastings et al. 1997; Haywood 1999; Hebda and Aitkens 1993; Hedrick and Keniston 1966; Hessburg 1999;** (Hilt 1985); **Holmes 1990; Howard 1992;** (Hruska and Ebinger 1995); **Hylton 1998; Johnson 1933a, 1933b, (1977); Keay 1993; Kertis 1986; Kie 1984;** (Kittredge and Chittenden 1929); Larsen and Johnson 1998; **Larsen and Morgan 1998; Lei 1995; Linders 2000; Litton 1980;** (Loewenstein et al. 2000); **Loftis and McGee 1993; Loomis et al. 1995; McComb 2001; McCorquodale 1999; McDonald 1980; McDonald and Ritchie 1994; McDonald et al. 1983;** (McGee 1981); (McGee and Bivens 1984); (McGinnies 1960); **McMinn et al. 1976; McPhee et al. 2000; McShea and Healy 2002; Miller 1990;** (Minckler 1957); **Minore and Kingsley 1983; Morrison et al. 1991; Muick and Bartolome 1985, 1987; Nature Conservancy of Canada 2000; Niemiec et al. 1995; Norton 1979; Oberbauer 1991; Olson et al. 1983; Oregon Woodland Publications Council and Washington Woodland Council 1963;** Packard and Mutel 1997; **Pavlick et al. 1991; Pillsbury and Joseph 1991; Pillsbury et al. 1997; Plumb 1980; Plumb and McDonald 1981; Plumb and Pillsbury 1987; Public Forestry Foundation 1995; Raabe 1980; Raettig et al. 1995; Regan 2001; Riegel et al. 1992; Rodrick 1986;** (Rogers 1990); Rogers and Spiecker 1998; **Roland 1994; Roland et al. 1995;** (Romagosa and Robison 1999); **Ryan and Carey 1995a; Sackett et al. 1992; Saenz**

1983; (Sander 1977); (Schlesinger 1978); **Smith and Stapanian 2002**; **Sprague and Hansen 1946**; **Standiford 1991**; **Sugihara and Reed 1987a, 1987b**; **Sugihara et al. 1983**; Sutherland 1999; **Tveten 1996, 1997**; **Tveten and Fonda 1999**; **USDA NRCS 1999**; **Ussery 1993, 1997**; Van Lear 1993; *Verner 1980*; (Weigel and Johnson 1997, 1998a, 1998b); **Williams 2000**; **Wilson and Carey 2001**; **Wilson et al. 1998**.

## Management and Use by Native Americans

**Keywords:** Burning by Native Americans, human food source, hunting, Native Americans, nutritional value.

**Agee 1996a, 1996b**; *Anderson 1996*; **Arno 2000**; **Bainbridge 1987**; **Boag 1992**; **Bowen 1978**; **Boyd 1999a, 1999b**; **Chesnut 1902**; **Duncan and Clawson 1980**; **Erickson 1993a**; **Essig 1931**; **Gorsline 1992**; **Gunther 1988**; **Habeck 1961**; **Hylton 1998**; **Johannessen et al. 1971**; **Jones 1936**; **Lalande and Pullen 1999**; **Lang 1961**; **McMinn et al. 1976**; **McPhee et al. 2000**; **Miller and Lamb 1985**; **Norton 1979**; **Norton et al. 1999**; **Pavlick et al. 1991**; **Taylor and Boss 1975**; **Towle 1982**; **Turner 1999**; **Turner and Bell 1971**; **Williams 2000**; **Wolf 1945**.

## Nonforestry Use of Oak Woodlands

**Keywords:** Anthropogenic impacts, grazing, hunting, livestock.

*Bartolome and Standiford 1992*; **Belland 1997**; **Bleier et al. 1993**; **Bolsinger 1987**; **Chappell et al. 2001**; *Coate 1983*; **Columbia Gorge Audubon Society 1991**; **Douglas and Illingworth 1996**; **Duncan and Clawson 1980**; **Erickson 1993a, 2000**; *Ewing 1990*; *Ffolliott et al. 1992*; *Giusti et al. 1991*; *Griggs 1990*; **Habeck 1962**; **Hall 1956**; **Hall et al. 1959**; **Hanna and Dunn 1997**; **Hedrick and Keniston 1966**; **Holmes 1990**; **Hylton 1998**; **Illingworth and Douglas 1996b**; **Jackson et al. 1998**; **Johannessen et al. 1971**; **Kasari et al. 1986**; **Lang 1961**; **Larsen and Morgan 1998**; **Loomis et al. 1995**; **Mackie 1903**; *McCreary 1990*; **McMinn et al. 1976**; **McPhee et al. 2000**; **Murphy 1980**; **Nature Conservancy of Canada 2000**; **Pavlick et al. 1991**; **Pillsbury et al. 1997**; **Pojar 1980b**; **Rossi 1980**; **Ryan and Carey 1995a**; **Ryan and Douglas 1995b, 1996c**; **Saenz 1983**; **Saenz and Sawyer 1986**; **Salstrom 1989**; **Sampson and Jespersen 1963**; **Smith 1985**; **Standiford 2002**; *Standiford and Appleton 1993*; **Stein 1980**; *Steinhart 1978*; *Swiecki 1990*; **Thilenius 1968**; **Towle 1982**; **Ussery 1993**; **Voeks 1981**; **Ward et al. 1998**; **Wolf 1945**.

## Physiology

**Keywords:** Allelopathy, budbreak, evapotranspiration, leaf abscission, nutrient composition, osmotic potential, phenology, photosynthesis, respiration, stomata, stomatal conductance, transpiration, water loss, water relations.

(Auchmoody and Hammack 1975); *Callaway 1992a, 1992b*; (Cochard and Tyree 1990); (Coe and McLaughlin 1980); (Conner et al. 1996); Ducouso et al. 1993; **Erickson 1993a**; (Farmer et al. 1970); (Geis et al. 1971); (Girton and Park 1942); *Gordon et al. 1989*; (Harley and Baldocchi 1995); (Jacquart et al. 1992); **Klinka et al. 1979**; (Kramer and Decker 1944); **Krygier 1971**; (Larson and Palashev 1973); (Larson et al. 1990); **Lee and Weber 1983**; (Luxmoore et al. 1981); *Matsuda and McBride 1989*; (McVicker 1949); **Minore 1979**; (Mullins et al. 1995); **Murphy 1980**; (Nardini and Tyree 1999); **Owen 1953**; **Papanikolas 1997**; (Parker and Pallardy 1988); **Regan 2001**; (Reich et al. 1980); Rohrig 1991; **Rundel 1980**; **Schowalter 1992**; (Stairs 1964); **Taylor and Boss 1975**; **Veihmeyer and Johnston 1944**; **Waring and Franklin 1979**; *Waring et al. 1978*; *Welker and Menke 1990*; (Woodwell 1974); (Wuenscher and Kozlowski 1971a, 1971b); **Youngberg 1955**.

## Plant Descriptions

**Keywords:** Plant description.

**Arno and Hammerly 1977; Bleier et al. 1993; Bolander 1865; Britton and Shafer 1908; Collingwood and Brush 1984; Columbia Gorge Audubon Society 1991; Cooper 1859; Eastwood 1946; Erickson 1993a; Franklin et al. 1972; Gilkey and Dennis 1975; Hebda 1993; Hitchcock and Cronquist 1973; Hitchcock et al. 1964; Illick 1924; Jepson 1909, 1910, 1924; Little 1978; Mackie 1903; McCulloch 1940; McMinn et al. 1935, 1949\*; Miller and Lamb 1985; Minore 1979; Montfort 1895; Muller 1938; Munz 1974\*; Munz and Keck 1973; Niemiec et al. 1995; Nixon 1997; Olson 1974; Overholser 1977; Pavlick et al. 1991; Peattie 1953; Peck 1961; Platz 1972; Plumb and McDonald 1981; Pojar and MacKinnon 1994; Pojar and Meidinger 1991; Rose et al. 1998; (Rowlee and Nichols 1900); Rundel 1980; Sampson and Jespersen 1963; Silen 1965; Snow 1917; Sprague and Hansen 1946; Standiford 2002; Sudworth 1908; Thomas 1961; Tucker 1953, 1958, 1974; USDA NRCS 1999; Van Pelt 1996; Whitford and Craig 1918; Whitney 1989.**

## Regeneration and Stand Establishment

**Keywords:** Fertilizer application, planting, propagation, regeneration, root pruning, seed predation, seedbed density, seedling development, seedling establishment, seedling irrigation, seedling mortality, seedling predation, seedling protection, seedling survival, seedlings, sprouting, tree shelters.

(Adams and Rieske 2001); *Adams et al. 1992a, 1992b*; **Agee 1993, 1996a, 1996b; Amaranthus and Perry 1989;** (Anderson 1984); **Anderson and Pasquinelli 1984;** (Barnett 1977); **Barnhardt et al. 1987; Barnhart et al. 1991, 1996; Barry et al. 1997; Bartolome and Standiford 1992; Bartolome et al. 1987;** Beck 1993; **Bell and Papanikolas 1997; Berman and Bledsoe 1997, 1998; Bleier et al. 1993; Bolsinger 1987, 1988; Bonner, in press; Bonner and Vozzo 1987; Brooks and Merenlender 2001; Bruemmer et al. 2000; Burns and Honkala 1990; Bush and Thompson 1990;** (Cain and Shelton 2000); *Callaway 1992a, 1992b; Callaway and D'Antonio 1991;* (Carpenter and Guard 1954); (Carvell 1967); (Carvell and Tryon 1961); **Chiller et al. 2000;** (Clausen 1983); **Cole 1977; Columbia Gorge Audubon Society 1991; Dale et al. 1986;** (Dixon et al. 1984); Ducouso et al. 1993; **Dunn 1980, 1998; Dunn and Ewing 1997; Erickson 1993a;** (Farmer 1980); (Farmer et al. 1970); *Ffolliott et al. 1992;* **Fuchs 1998; Fuchs et al. 1997, 2000a, 2000b;** (Golden et al. 1999); **Gordon et al. 1989;** (Graney 1982, 1987, 1999); *Griffin 1971, 1976, 1980; Griffin et al. 1987; Griggs 1990; Gumtow-Farrior 1991; Gumtow-Farrior and Gumtow-Farrior 1994; Hagel 1998; Halbert 1931; Hall 1956; Hastings et al. 1997; Hedrick and Keniston 1966; Hibbs and Yoder 1993; Holmes 1990; Howard 1992;* (Hruska and Ebinger 1995); (Huddle and Pallardy 1999); **Irgens-Moller 1955; Jackson et al. 1998; Johnson 1977; Keay 1993;** (Kittredge and Chittenden 1929); *Koenig and Knops 1995, 1997b; Koenig et al. 1994b; Kuntz 1964; Lang 1961;* Larsen and Johnson 1998; **Larsen and Morgan 1998;** (Larson 1974); (Larson and Palashev 1973); (Larson et al. 1990); (Loewenstein et al. 2000); **Loftis and McGee 1993;** (Lynch and Bassett 1987); **Macklin and Thompson 1992; Matsuda and McBride 1986, 1987; McComb 2001; McCreary 1990; McDonald and Tappeiner, in press; McDonald et al. 1983;** (McGee 1978, 1981); (McGee and Bivens 1984); Merz and Boyce 1956; Miller and Lamb 1985; (Minckler et al. 1973); **Mirov 1945;** (Mishra and Feret 1996); *Motz 1997; Muick 1991; Muick and Bartolome 1987; Muller 1951\*;* (Mullins et al. 1995); **Niemiec et al. 1995; Olson 1974; Oregon Woodland Publications Council and Washington Woodland Council 1963; Owen 1953; Papanikolas 1997;** (Parker and Pallardy 1988); *Pillsbury and Joseph 1991; Plumb and McDonald 1981; Reed and Sugihara 1987; Regan 2001;* (Reich et al. 1980); *Roberts and Smith 1982;* (Rogers 1990); Rogers and Johnson

1998; Rogers and Spiecker 1998; **Rohlf** 1999; (Romagosa and Robison 1999); **Rose et al. 1998**; (Roth and Hepting 1943); **Rundel 1980**; **Ryan and Carey 1995a**; (Sander 1977); **Scheffer 1959, 1960**; *Schettler and Smith 1980*; (Schultz and Thompson 1990); **Silen 1958, 1965**; (Silvertown 1980); (Skinner 1952); Smith (1962), **1993**; Smith et al. 1990; **Sprague and Hansen 1946**; **Standiford 1991, 2002**; *Standiford and Appleton 1993*; *Standiford et al. 1997*; **Stein 1990**; *Steinhart 1978*; **Sudworth 1908**; **Sugihara and Reed 1987a, 1987b**; **Sugihara et al. 1983**; *Swiecki 1990*; **Thysell and Carey 2001**; (Timmons et al. 1993); **USDA NRCS 1999**; Van Lear 1993; **Voeks 1981**; *Warren 1980*; (Weigel and Johnson 1997, 1998a, 1998b); *Welker and Menke 1990*; (Wichman and Coggeshall 1984); **Youngberg 1955**.

### Root System Characteristics

**Keywords:** Ectomycorrhizae, fine roots, mycorrhizae, root system architecture, roots.

**Amaranthus and Perry 1989**; **Amaranthus et al. 1989**; *Berman and Bledsoe 1997, 1998*; (Brown and Woods 1968); *Callaway 1992a, 1992b*; (Carpenter and Guard 1954); (Dixon et al. 1984); (Dress and Boerner 2001); **Dunn 1980**; *Gordon et al. 1989*; **Griffin 1980**; **Griffin et al. 1987**; **Hepting 1971**; **Hibbs and Yoder 1993**; (Huddle and Pallardy 1999); (Joslin and Henderson 1984); *Kummerow and Mangan 1981*; Larsen and Johnson 1998; (Larson 1974); (Larson and Palashev 1973); (Larson et al. 1990); **Mangum et al. 1911**; *Matsuda and McBride 1986*; **Minore 1979**; (Mishra and Feret 1996); *Motz 1997*; (Nardini and Tyree 1999); (Parker and Pallardy 1988); (Schmit et al. 1999); (Schultz and Thompson 1990); **Smith 1993**; *Thomas 1980*; (Wichman and Coggeshall 1984); **Wilson and Carey 2001**.

### Site Characteristics

**Keywords:** Aspect, elevation, geology, precipitation, site index, slope position, soil, topography.

Agee 1991, **1993**; **Alverson 1993**; **Amaranthus and Perry 1989**; **Amaranthus et al. 1989**; **Anderson and Pasquinelli 1984**; **Antieau and Gaynor 1990**; **Antos and Allen 1990**; **Asher 1980**; **Atzet and McCrimmon 1990**; **Atzet et al. 1996**; (Auchmoody and Smith 1979); **Barnes 1991**; **Barnhardt et al. 1987**; **Beckham et al. 1981**; **Bolander 1865**; *Borchers and Perry 1990*; (Boyd 1949); *Brabb 1961*; **British Columbia Ministry of Environment, Lands and Parks 1997**; **Broersma 1973**; **Brooks and Merenlender 2001**; **Buckingham et al. 1995**; **Burns and Honkala 1990**; (Carpenter and Guard 1954); (Carvell and Tryon 1961); (Cecich 1997); (Cecich and Sullivan 1999); **Chappell and Crawford 1997**; **Cheyney 1942**; **Cole 1977**; **Crawford et al. 1995**; **Dale et al. 1986**; (Donnelly and Shane 1986); (Dress and Boerner 2001); **Erickson 1993a**; (Fralish 1994); **Franklin et al. 1972**; (Fritts 1962); (Gaiser and Merz 1951); **Garrison et al. 1977**; (Golden et al. 1999); *Gordon et al. 1989*; *Griffin 1967, 1971, 1977*; **Hall 1956**; **Hall et al. 1959**; **Hann and Larsen 1991**; **Hansen 1947a**; **Hedrick and Keniston 1966**; **Hepting 1971**; **Holland 1986**; **Howard 1992**; (Jacquart et al. 1992); (Kittredge and Chittenden 1929); **Klinka et al. 1996**; *Koenig and Knops 1995*; *Koenig et al. 1996*; **Krajina 1965, 1969**; **Krygier 1971**; **Lang 1961**; (Larson 1974); (Larson and Palashev 1973); (Leach and Givnish 1999); (Luxmoore et al. 1981); (Lynch and Bassett 1987); *Mallory et al. 1973*; **Mangum et al. 1911**; *Matsuda and McBride 1987, 1989*; **McBride and Mossadegh 1990**; **McDonald et al. 1983**; **McMinn et al. 1976**; (McVickar 1949); (Merz 1953); *Mielke and Kimmey 1942*; (Minckler et al. 1973); **Minore and Kingsley 1983**; **Munz 1974\***; **Munz and Keck 1973**; **Nature Conservancy of Canada 2000**; **Niemiec et al. 1995**; **Nixon 1997**; **Owen 1953**; **Pabst 1995**; **Riegel et al. 1992**; **Rigg 1913**; **Ritchie and Hann 1987**; **Roemer 1972, 1993**; (Rogers 1990); **Rose et al. 1998**; **Rundel 1980**; *Sackett et al. 1992*; **Saenz 1983**; **Salstrom 1989**; (Sander 1977); **Sauerwein 1983**; **Sawyer et al. 1977**; **Scheffer 1959**; (Sharp and

Chisman 1961); (Sharp and Sprague 1967); **Silen 1958, 1965; Sprague and Hansen 1946; Standiford 2002; Stein 1980, 1990; Stone 1986; Stoutamire 1951; Thilenius 1964, 1968; Thomas 1961; Thorne 1976; Ugolini and Schlichte 1973; USDA NRCS 1999; Veihmeyer and Johnston 1944; Voeks 1981;** Weaver and Jones 1980; (Weigel and Johnson 1998b); *Welker and Menke 1990*; (Whitney 1982); **Wilson and Carroll 1994; Youngberg 1955; Zinke 1977.**

### **Tree and Stand Characteristics**

**Keywords:** Branching, buds, canopy, catkins, competition, crown, diameter, height, shoot length, stand characteristics, stand density, stand dynamics, stand structure, twigs.

**(Abrams and Copenheaver 1999); Adams and Morrison 1993;** (Adams and Rieske 2001); *Adams et al. 1992a, 1992b*; **American Forestry Association 1998;** (Anderson 1984); **Anderson and Pasquinelli 1984;** (Auchmoody and Hammack 1975); *Barry et al. 1997; Bartolome et al. 1987;* Beck 1993; **Bolsinger 1987, 1988, 1989; Britton and Shafer 1908; Brown 1980; Burns and Honkala 1990;** (Carvell 1967); **Chappell et al. 2001; Chiller et al. 2000;** (Clausen 1983); (Dale 1968); **Dale et al. 1986; Donnelly 1997; Donnelly and Johnson 1997;** (Donnelly and Shane 1986); **Evans 1996;** (Gaiser and Merz 1951); **Garman et al. 1995;** *Gordon et al. 1989;* (Graney 1982, 1987, 1997); (Greenberg 2000); (Guertin and Ramm 1996); (Gysel 1956); **Habeck 1962; Hann 1994, 1997; Hann and Larsen 1991; Hanus et al. 1999, 2000;** (Harley and Baldocchi 1995); **Hessburg 1999; Hibbs and Yoder 1993; Huemrlich and Goward 1997; Illick 1924; Jackson et al. 1998; Jepson 1924; Kessler 1990;** (Kittredge and Chittenden 1929); (Kossuth 1975); **Larsen and Hann 1987;** (Larson and Palashev 1973); **Li and Hsiao 1975–76a, 1975–76b;** (Loewenstein et al. 2000); **Loftis and McGee 1993;** (Lynch and Bassett 1987); **Macklin and Thompson 1992; McComb 2001;** *McDonald 1980; McDonald and Ritchie 1994;* (McGee 1981, 1986); (Merkle et al. 1980); (Minckler 1957); (Mishra and Feret 1996); *Muick 1991;* (Mullins et al. 1995); **Nixon 1997;** (Ojasvi et al. 1991); **Paine and Hann 1982; Pike 1973, 1978; Pillsbury and Kirkley 1984;** (Rast et al. 1989); **Reed and Sugihara 1987; Ritchie and Hann 1987; Rogers 1990;** (Rogers and Hinckley 1979); (Roth and Hepting 1943); **Saenz and Sawyer 1986;** (Sander 1977); **Sauerwein 1983;** (Schlesinger 1978); (Sharp and Chisman 1961); (Shifley and Brand 1984); **Silen 1958, 1965;** (Skinner 1952); **Smith 1993; Sprague and Hansen 1946;** (Stairs 1964); **Stein 1990; Stone 1986, 1989; Sugihara et al. 1983, 1987; Van Pelt 1996;** *Verner 1980;* **Wang and Hann 1988; Ward et al. 1998;** (Weigel and Johnson 1998b); (Wichman and Coggeshall 1984); **Wilson et al. 1991; Witt 1979; Zumrawi and Hann 1989.**

### **Vegetation and Plant Communities**

**Keywords:** Bryophytes, epiphytes, forbs, lichens, mixed stands, noxious weeds, oak savannas, oak woodlands, plant associations, plant communities, seral stages, shrubs, species recruitment, understory.

**(Abrams and Copenheaver 1999); Adams et al. 1992a; Agee 1990, 1993, 1996a, 1996b; Allen et al. 1999; Alverson 1993; Anderson 1970, 1972, 1996; Anderson and Pasquinelli 1984; Antos and Allen 1990; Appel 1994; Arno 2000; Atzet and McCrimmon 1990; Atzet et al. 1996; Axelrod 1977; Barnes 1991; Barnhardt et al. 1987; Barnhart et al. 1991, 1996; Barnosky 1983; Bartolome and Standiford 1992; Bayrakci et al. 2001; Beckham et al. 1981; Bell and Papanikolas 1997; Belland 1997; Berman and Bledsoe 1998; Bleier et al. 1993; Block and Morrison 1991, 1998\*;** *Block et al. 1990;* **Boag 1988; Bolsinger 1987, 1988, 1989; Bolsinger and Jaramillo 1990; Bowen 1978; Boyd 1999b; Brabb 1961; British Columbia Ministry of Environment, Lands and Parks 1997, 1999; Brooks and Merenlender 2001;**

**Bull 1978; Burns and Honkala 1990; Callaway 1992a, 1992b; Callaway and D'Antonio 1991; Ceska 1993; Ceska and Ceska 1988; Chambers et al. 1999; Chappell and Crawford 1997; Chappell et al. 1996, 2001; Cheyney 1942; Chiller et al. 2000; Clark 1937; Coate 1983; Columbia Gorge Audubon Society 1991; Crawford et al. 1995; Critchfield 1971\*; Daubenmire 1978; Detling 1968; Donnelly 1997; Donnelly and Johnson 1997; Donovan and Douglas 2001; Douglas and Illingworth 1996, 1999; Douglas et al., n.d.; Duncan and Clawson 1980; Dunn 1980, 1998; Dunn and Ewing 1997; Easterly 1994; Erickson 1993a, 1993b, 1993c, 1996, 2000; Ewing 1990; Eyre 1975; Ffolliott et al. 1992; Franklin 1979; Franklin and Dyrness 1988; Franklin and Hemstrom 1981; Franklin et al. 1972; Friedman 1987; Frost et al. 1997; Garrison et al. 1977; Garry Oak Ecosystems Recovery Team 2001; Gordon et al. 1989; Griffin 1967, 1976, 1977; Griffin and Critchfield 1972; Griffin et al. 1987; Gumtow-Farrior and Gumtow-Farrior 1992, 1994; Habeck 1961, 1962; Hagar and Stern 2001; Hall 1956, 1982, 1998; Hall et al. 1959; Hanna and Dunn 1996, 1997; Hansen 1938; Hastings et al. 1997; Hebda and Aitkens 1993; Hektner et al. 1983; Hermann and Lavender 1990; Holland 1986; Holmes 1990; Howard 1992; (Hruska and Ebinger 1995); Hylton 1998; Illick 1924; Illingworth and Douglas 1996a, 1996b, 1999; Jamieson and Douglas 1998; Janszen 1977, 1981; Jepson 1909; Johannessen et al. 1971; Johnson and O'Neil 2001; Keeler-Wolf 1990; Kertis 1986; Kessler 1990; Kirkwood 1902; (Kittredge and Chittenden 1929); Klinka et al. 1979, 1996; Knops et al. 1997; Koenig and Knops 1997b; Kozloff 1976; Krajina 1965, 1969; Kruckeberg 1991; Kuchler 1964, 1977; Lalande and Pullen 1999; Lang 1961; Larsen and Morgan 1998; (Leach and Givnish 1999); Lei et al. 1996; Leopold and Boyd 1999; Litton 1980; Loomis et al. 1995; Loveless and Loveless 1977; Macklin and Thompson 1992; Mallory et al. 1973; Mangum et al. 1911; McBride and Mossadegh 1990; McCorquodale 1999; McDonald et al. 1983; (McGee 1986); McMinn et al. 1935, 1976; McPhee et al. 2000; McShea and Healy 2002; McWilliams et al. 2002; Meidinger and Pojar 1991; Merrifield 2000; Minore and Kingsley 1983; Morrison et al. 1991\*; Nature Conservancy of Canada 2000; Niemiec et al. 1995; Nuszdorfer et al. 1991; Oberbauer 1991; O'Neil and Johnson 2001; Opler 1974; Ovaska and Engelstoft 2001; Owen 1953; Pabst 1995; Packard and Mutel 1997; Papanikolas 1997; Parametrix 1999; Pavlick et al. 1991; Penny and Douglas, n.d.; Pike 1973, 1978; Pillsbury and Joseph 1991; Pillsbury et al. 1997; Plumb and McDonald 1981; Pojar 1980a, 1980b; Pojar and Meidinger 1991; Public Forestry Foundation 1995; Raven 1977; Reed and Sugihara 1987; Regan 2001; Rickard 1975; Riegel et al. 1992; Rigg 1918; Roberts 1987; Roberts and Whitehead 1984; Rodrick 1986; Roemer 1972, 1993; (Rogers 1990); Rogers and Spiecker 1998; Ryan 1993, 1985; Ryan and Carey 1995a, 1995b; Ryan and Douglas 1995a, 1995b, 1996a, 1996b, 1996c, 1999a, 1999b; Sackett et al. 1992; Saenz 1983; Saenz and Sawyer 1986; Salstrom 1989; (Sander 1977); Sawyer et al. 1977; Shepard 2000b; Silen 1958, 1965; Smith 1985; Society of American Foresters 1950; Standiford 1991, 2002; Stein 1980, 1990; Stone 1986, 1989; Stoutamire 1951; Sugihara et al. 1983, 1987; Sugihara and Reed 1987a, 1987b; Sutherland 1999; (Szafoni et al. 1994); Thilenius 1964, 1968; Thomas 1961; Thorne 1976; Thysell and Carey 2001; Towle 1974, 1979, 1982; Tunison 1973; Tveten 1996, 1997; Tveten and Fonda 1999; Ugolini and Schlichte 1973; Ussery 1993, 1997; Ussery and Krannitz 1998; Vasek and Thorne 1977; Verner 1980; Wainwright and Barbour 1984; Ward et al. 1998; Waring and Franklin 1979; Wells and Anzinger 2001; Whitlock 1992; Whitney 1989; Whittaker 1960; Williams 2000; Wilson and Carey 2001; Wilson et al. 1998; Youngberg 1955; Zinke 1977.**

## Wildlife Occurrence and Use

**Keywords:** Amphibians, birds, browse, habitat, reptiles, *Sciurus griseus* (western gray squirrel), small mammals, wildlife, wildlife food source.

*Adams and Morrison 1993*; (Adams and Rieske 2001); *Adams et al. 1992a*; **Anderson 1970, 1972, 1980**; **Anderson and Pasquinelli 1984**; **Bainbridge 1987**; (Barnett 1977); **Barrett 1980**; **Bayrakci et al. 2001**; Beck 1993; **Beckham et al. 1981**; **Bennett 1993a**; **Bernard and Brown 1977**; **Bissell and Strong 1955**; **Blakely et al. 1990**; **Bleier et al. 1993**; **Block and Morrison 1991, 1998\***; **Block et al. 1990**; **1992\***; **Bock and Bock 1974**; **British Columbia Ministry of Environment, Lands and Parks 1999**; **Bruemmer et al. 2000**; **Bull 1978**; **Burns and Honkala 1990**; **Chappell et al. 2001**; **Chatwin 1993**; **Chiller et al. 2000**; **Coblentz 1980**; **Columbia Gorge Audubon Society 1991**; **Cooper et al. 1998**; **Dayton 1931**; **Duncan and Clawson 1980**; **Dunn 1998**; **Dunn and Ewing 1997**; **Erickson 1993a, 1993b**; *Folliott et al. 1992*; (Fox 1982); **Franklin et al. 1972**; **Fuchs 1998**; **Fuchs et al. 1997, 2000a, 2000b**; **Garrison et al. 1977**; **Garry Oak Ecosystems Recovery Team 2001**; **Glendenning 1944**; *Goldsmith et al. 1981*; **Graves 1980**; *Griffin 1971*; **Griffin et al. 1987**; **Gumtow-Farrior 1991**; **Gumtow-Farrior and Gumtow-Farrior 1994**; **Hagar and Stern 2001**; **Hanna and Dunn 1996, 1997**; **Hebda 1993**; **Hebda and Aitkens 1993**; **Howard 1992**; **Hylton 1998**; **Johnson and O'Neil 2001**; **Kie 1984**; **Kruckeberg 1991**; **Larsen and Morgan 1998**; **Linders 2000**; **Loomis et al. 1995**; *Loveless and Loveless 1977*; **Mackey 1984, 1986**; **McComb 2001**; **McCorquodale 1999**; **McPhee et al. 2000**; (McShea 2000); **McShea and Healy 2002**; **Meidinger and Pojar 1991**; **Morrison et al. 1991**; **Nature Conservancy of Canada 2000**; **Nuszdorfer et al. 1991**; **O'Neil and Johnson 2001**; **Orchard 1993**; **Oregon Department of Fish and Wildlife 2000**; **Ovaska and Engelstoff 2001**; **Parametrix 1999**; **Pavlick et al. 1991**; **Piekielek and Burton 1975**; *Roberts 1976, 1987*; *Robinson 1937*; **Rodrick 1986**; **Ryan 1997**; **Ryan and Carey 1995a, 1995b**; **Sampson and Jespersen 1963**; (Sander 1977); **Scheffer 1959**; (Smith 1962); **Smith and Stapanian 2002**; *Standiford 1991, 2002*; **Stein 1990**; *Steinhart 1978*; **Stienecker and Browning 1970\***; **Van Dersal 1940**; **Van Lear 1993**; *Verner 1980*; **Voeks 1981**; **Ward et al. 1998**; **Weber 1980**; *Welker and Menke 1990*; **Whitney 1989**; **Wilson and Carey 2001**; **Wilson et al. 1991, 1998**.

## Wood Properties

**Keywords:** Decay resistance, defects, drying, seasoning, specific gravity, wood properties.

**Betts 1919**; (Boyd 1949); **Espenas and Kozlik 1975**; **Evans 1996**; **Forest Products Laboratory 1974**; *Hall 1998*; **Johnson 1933b**; **Lei 1995**; **Lei et al. 1996**; **Milota 1996**; **Niemiec et al. 1995**; **Overholser 1977**; **Platz 1972**; (Rast et al. 1989); **Scheffer et al. 1949**; **Shelly 1997a**; **Smith 1952**; **Stern 1978**; **Towey and Waterhouse 1996**; **Washburn et al. 1933**.

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