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California Oaks: A Bibliography



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CONTENTS

Introduction	1
Topical Outline	2
1. Geologic history	2
2. Systematics	2
3. Genetics	2
4. Regeneration	3
5. Mycorrhizae, diseases, and mistletoe	4
6. Insect interactions	4
7. Vertebrate and wildlife interactions	5
8. Species distributions	5
9. Communities	6
10. Physiological ecology	7
11. Ethnobotany	8
12. Landscape management	8
13. Range management	8
14. Tree management and wood utilization	8
15. Research planning and coordination	9
Species Index	10
Bibliography	13

INTRODUCTION

California oaks today attract considerable attention among resource professionals. Moreover, the proliferation of this interest is much in evidence: the symposium on the ecology, management, and utilization of California oaks (Claremont College, in 1979); the California oak heritage conservation conference (University of California, Irvine, 1983); and *Fremontia's* special issue (October 1983) devoted to oaks are but three more familiar examples. Oak harvesting and management was the focus of the California Department of Forestry's hardwood task force (1983) as well as the statewide meeting of the Society of American Foresters titled "Wood for Energy" (California Polytechnic State University, San Luis Obispo, in 1984).

Such events have suggested the need for a comprehensive bibliography of the extensive but scattered oak literature, including unpublished theses and reports. The oak reference files of the compilers and several colleagues, which comprise the core of the bibliography, were expanded and collated into the present format. However, the list of topics related to California oaks is not exhaustive. Such a comprehensive task would make recovery of data very difficult. The achievement of this bibliography is the convenient access which it provides to a large corpus of the California oak literature.

Owing to the personal preferences and experience of the compilers, some species and related topics have received more attention than others. The species most extensively covered are blue oak (*Quercus douglasii* H. and A.), California black oak (*Q. kelloggii* Newb.), and valley oak (*Q. lobata* Nee). Topics

related to geography and taxonomy are relatively complete; topics related to physiology are less so. Also, more information is needed on many topics for all species.

Selected studies from other regions are included for those topics about which no significant California references exist. Only the most complete version or most recent edition is listed for revised or republished material. Only those theses which contain unpublished material are cited. Routine taxonomic listing of all oaks in all California floras is not covered. Relatively obscure historical items on large oaks and historic oak community distributions have been included to help document the changes which have occurred to oaks during the agricultural and urban development of California. The limited number of unpublished reports cited are on file at the Forestry Library, Mulford Hall, University of California, Berkeley.

The references are organized into two systems:

- **Topical Outline.** References are displayed under key word headings and subheadings. Author-date entries help to locate items by researcher or date.
- ***Quercus* Species Index.** References contain serial numbers for all species and named hybrids.

Indexing every species and all topics in every citation would have made the outline and indices too cumbersome; the indexing has therefore been selective. However, all references are listed at least once in the topical outline and species index. As the complexity of topics grew and total citations exceeded 750, the opportunity for assigning citations to incorrect or marginal places grew; the compilers accept responsibility for such occurrences. Optionally, the reader can turn directly to the bibliography and search at will through the large collection of references on the natural history, management, and utilization of California oaks which have been accumulated over the last century.

TOPICAL OUTLINE

1. Geologic History

1.1 Modern Species and Related Fossils

- Q. agrifolia*
 - Eocene, *Q. distincta*. MacGINITIE 1941.
 - Pre-Miocene records problematic. WOLFE 1980.
- Q. chrysolepis*
 - Pleistocene (Nevada). LESKINEN 1975.
- Q. douglasii*
 - Pliocene, *Q. douglasoides*. AXELROD 1937, 1944a,c.
- Q. dunnii*
 - Pleistocene (Nevada). LESKINEN 1975.
 - Miocene, *Q. pliopalmeri*. AXELROD 1939.
- Q. engelmannii*
 - Miocene. CONDIT 1944a,b.
 - P. pre-engelmannii*. TUCKER 1952b.
- Q. lobata*
 - Pliocene, *Q. moragensis*. AXELROD 1944a,c; 1950.
 - Q. pre-lobata* (Nevada). AXELROD 1958 [according to WOLFE 1980 this was *Acer*]. (Washington) SMILEY 1963.
 - Q. pre-lobata*, Miocene. CONDIT 1944a. (Oregon and Idaho) CHANEY and AXELROD 1959.
 - Q. lobata*-like pollen. AXELROD and TING 1960.
- Q. rugosa*
 - Q. temblorensis*. RENNEY 1972.
- Q. sadleriana*
 - Compared with *Q. pontica* in Turkey. KASAPLIGIL 1981.
- Q. tomentella*
 - Q. declinata*. AXELROD 1944a,b.
- Q. turbinella*
 - Miocene, *Q. dispersa*. AXELROD 1940, 1944b.
- Q. virginiana*
 - Q. dayana*. RENNEY 1972.
- Q. wislizenii*
 - AXELROD 1958.

1.2 Overviews, Reviews, and History

- California oaks, Neogene history. WOLFE 1969, 1980.
- General. TRELEASE 1918.
- History of:
 - Mediterranean ecosystems. AXELROD 1973.
 - Mixed evergreen forest. AXELROD 1977.
 - Oak-laurel forest. AXELROD 1977.
 - Oak woodland. AXELROD 1977.
 - Sclerophyll vegetation. AXELROD 1975.
- Late Pleistocene. WARTER 1976.
- Post Pleistocene. COTTAM [and others] 1959.
- Pollen studies. ADAM [and others] 1981, AXELROD and TING 1960, COLE 1983.
- Q. agrifolia*, *Q. wislizenii*. VASEY 1980.
- Riparian species (*Q. lobata*). ROBICHAUX 1977.

2. Systematics

2.1 Subgeneric Taxa

- Worldwide treatments. CAMUS 1936-, SCHWARZ 1936.
- North American treatments. MULLER 1942, PALMER 1942, TILLSON and MULLER 1942, TRELEASE 1924.
- California reviews. TUCKER 1980, 1983.

2.2 Chemical Variation between Species

- Acorns. OFCARCIK and BURNS 1971, WAINIO and FORBS 1941.
- Miscellaneous. SANTAMOUR 1983 (cambial enzymes), SUTTON and MOGENSEN 1970 (leaf primordia).
- Phenolics. LI and HSIAO 1973-1974 (leaves), LI and HSIAO 1975-1976a (catkins), LI and HSIAO 1975-76b (twigs).

2.3 Specific Taxa

New species

- Q. cornelius-mulleri* Nixon and Steele (1981). New species in the *Q. dumosa* complex.
- Q. dunnii* Kellogg (1879).

Change in status

- Q. breweri* Engelmann (1880). Now commonly treated as a variety of *Q. garryana*. McMINN 1951.
- Q. parvula* Greene (1889-1890). NIXON (1980) and FLETCHER (1983) recognized this as a species; TUCKER (1980) treated this as a form of *Q. wislizenii* with possible varietal or subspecies merit. MULLER 1967.
- Q. pricei* Sudworth (1907). TUCKER (1980) treated this as a synonym of *Q. agrifolia*. SUDWORTH 1908.
- Q. shrevei* Muller (1938). TUCKER (1980) treated this as a form of *Q. wislizenii* with possible varietal or subspecies merit. K. Nixon is proposing *Q. shrevei* as a var. of *Q. parvula* according to ENGLES and GENETTI (1984).
- Q. oxyadenia* Torrey (1854). HOWELL 1931 described this as a variety of *Q. agrifolia*.

2.4 Miscellaneous Topics

- Floral morphology. ROWLEE and NICOLS 1900, TURKEL [and others] 1955.
- Leaf form evolution. TUCKER 1974.
- Microsporogenesis and embryogenesis. STAIRS 1964.
- Review of names used by U.S. Dep. Agric. LITTLE 1979.
- Species concepts. BURGER 1975, VAN VALEN 1976.
- Wood characters. WILLIAMS 1939, 1942a,b.

3. Genetics

3.1 Natural Hybrids

- Q. agrifolia* x *Q. kelloggii*
- Q. X chasei* McMinn, Babcock, and Righter (1949), *Q. X ganderi* Wolf (1944). ENGLES and GENETTI 1984, HOWELL 1970.
- Q. agrifolia* x *Q. wislizenii*

BROPHY and PARNELL 1974; THOMAS, D. 1970; VASEY 1980.

Q. chrysolepis x *Q. dunnii*
TUCKER 1980, TUCKER and HASKELL 1960 (Arizona).

Q. chrysolepis x *Q. tomentella*
TUCKER 1980.

Q. chrysolepis x *Q. vaccinifolia*
MYATT 1975.

Q. douglasii x *Q. dumosa*
TUCKER 1950, 1952a, 1953a, 1980.

Q. douglasii x *Q. garryana*
Q. X eplingii Muller (1938). DOBZHANSKY 1941, GRIFFIN 1966.

Q. douglasii x *Q. lobata*
Q. X jolonensis Sargent (1918). HOWITT and HOWELL 1973; THOMAS, J. 1961; TWISSELMANN 1967.

Q. douglasii x *Q. turbinella*
Q. X alvordiana Eastwood (1905) BENSON 1940, BENSON [and others] 1967; GRIFFIN and CRITCHFIELD 1972, HOOVER 1970; TUCKER 1952b, 1980, 1983; TWISSELMANN 1967, WHITE 1966.

Q. dumosa x *Q. durata*
FORDE and FARIS 1962, TUCKER 1980.

Q. dumosa x *Q. engelmannii*
Q. X grandidentata Ewan (1937). BENSON 1962; LATHROP and THORNE 1978; ROBERTS, W 1983; TUCKER 1980.

Q. dumosa x *Q. garryana*
Q. X howellii Tucker (1953b). HOWELL 1970.

Q. dumosa x *Q. lobata*
Q. X macdonaldii Greene (1889-1890), *Q. X townei* Palmer (1948). MULLER 1967, TUCKER 1980.

Q. dumosa x *Q. turbinella*
TUCKER 1950, 1952a, 1953a, 1980.

Q. durata x *Q. garryana*
Q. X subconvexa Tucker (1953b). EASTWOOD 1946, HOWELL 1970.

Q. garryana x *Q. lobata*
ROBERTS, W. 1983; TUCKER 1980.

Q. kelloggii x *Q. wislizenii*
Q. X morehus Kellogg (1863), *moreha* according to TRELEASE (1917). ANONYMOUS 1948, CUMMINGS 1985, EASTWOOD 1946, ENGELS and GENETTI 1984, GRIFFIN 1966, GRIFFIN and CRITCHFIELD 1972; HOWELL, J. 1970; HOWITT and HOWELL 1973, JEPSON 1910, McCLINTOCK [and others] 1968, PEQUEGNAT 1951, SUDWORTH 1908, TWISSELMANN 1967, WOLF 1938.

Q. lobata x *Q. turbinella*
Q. X munzii Tucker (1968) HOWITT and HOWELL 1973.

Q. sadleriana x *Q. garryana*
MUTH 1976, 1980; TUCKER 1980.

3.2 Artificial Hybrids

Q. douglasii x *Q. gambellii*. COTTAM [and others] 1982.
Q. douglasii x *Q. turbinella*. COTTAM [and others] 1982.
Q. lobata x *Q. gambellii*. COTTAM [and others] 1982.
Q. lobata x *Q. macrocarpa* (eastern U.S.). COTTAM [and others] 1982.
Q. lobata x *Q. robur* (Europe). COTTAM [and others] 1982.
Q. lobata x *Q. turbinella* (Utah). COTTAM [and others] 1982; ROBERTS, W. 1983.

3.3 Miscellaneous Hybrid Topics

Artificial hybridization. COTTAM [and others] 1982; WRIGHT, J. 1953.
Evolutionary influence. MULLER 1952.
Introgression (*Q. durata*). FORDE and FARIS 1962.
Nomenclature. TRELEASE 1917.
Numerical analysis in hybrids. JENSEN and ESHBAUGH 1976a,b.
Reviews. PALMER 1948, TRELEASE 1924, TUCKER 1959.
Spontaneous hybrids in cultivation. OSBORN 1931.

3.4 Cytogenetics

DUFFIELD 1940, IRGENS-MULLER 1955, SAX 1930.

4. Regeneration

4.1 Sprouting

Q. X alvordiana. BENSON 1940, 1962.
Q. dumosa. KEELEY 1981, KEELEY and KEELEY 1981, KEELEY and ZEDLER 1978, MULLER 1951; PLUMB 1963, 1971, 1980; PLUMB and GOODIN 1982.
Q. engelmannii. SNOW 1980.
Q. garryana. MULLER 1951, SUDWORTH 1908 (as *Q. breweri*), SUGIHARA [and others] 1983.
Q. lobata. GRIFFIN 1980a, JEPSON 1910.
Miscellaneous topics. JEPSON 1910, LEONARD and MURPHY 1965, LONGHURST 1956, MULLER 1951, ROY 1955.

4.2 Flowering and Fruiting

Anatomy and morphology. BROPHY 1976, CONRAD 1900, GARRISON and AUGSPURGER 1983, HJELMQUIST 1953, HOSNER 1958; JOHNSON, A. 1940, LANGDON 1939, MERKLE [and others] 1980; MOGENSEN 1966, 1975; OLSON, D. 1974, SHARP and CHISMAN 1961, SHARP and SPRAGUE 1967, TUCKER 1972, TUCKER [and others] 1980, WILLIAMSON 1966.
Climatic interactions. FERET [and others] 1982, NEILSON and WULSTEIN 1980, SHARP and CHISMAN 1961, SHARP and SPRAGUE 1967, WOLGAST and STOUT 1977.

4.3 Acorns

Annual production. GRAVES 1977a, 1980; GRIFFIN 1976, MENKE and FRY 1980.

- Dispersal. BENT 1946, GRINNELL 1936, INGLES 1947, SNOW 1972.
- Germination. GRIFFIN 1971, HUNTER and VAN DOREN 1982, KNUDSEN 1984, KORSTIAN 1927 (REVIEW), MATSUDA and McBRIDE 1982, McCOMB 1934, MIROV 1945, MIROV and KRAEBEL 1939; PLUMB 1981, 1982.
- Review. OLSON, D. 1974, RADTKE 1939.
- 4.4 Seedling Establishment and Predation
- Miscellaneous. BOWYER and BLEICH 1980, CRUZAN 1981; GRIFFIN 1971, 1976, 1980b; HORTON and KRAEBEL 1955, HUNTER and VAN DOREN 1982, KNUDSEN 1984, MATSUDA and McBRIDE 1982, McBRIDE 1974, McCLARAN 1985, PASE 1969, SNOW 1972.
- Root growth. CARPENTER and GUARD 1954.
- 4.5 Problems with Natural Regeneration, Loss of Mature Stands
- Q. douglasii*. GRIFFIN 1971, 1976, 1977; HOLLAND 1976; JOHNSON, S. 1985; WHITE, K. 1966.
- Q. lobata*. CALLIZO 1983, CAVAGNARO 1974, DUTZI 1979, FIEBLEKORN 1972; GRIFFIN 1971, 1973a, 1976, 1980b; JOHNSON, S. 1985; KIRN 1982, McCLARAN 1983; MCGILL 1975, 1979; PARSONS, J. 1972; ROSSI 1979, 1980; STEINHART 1978; STERN, K. 1977; SWERSKY 1985.
- Miscellaneous species. BOWYER and BLEICH 1980, IRVINE 1982; JOHNSON, S. 1985, KIRN 1982; PARSONS, J. 1972; SNOW 1972.
- 4.6 Artificial Regeneration
- Grafting. MIROV and CUMMING 1945, SANTAMOUR 1983, SCHETTLER and SMITH 1980.
- Planting. DARNELL 1983, DAWSON 1984, DOBBINS 1976, EVERETT 1957, LaROSA 1984, LOBEL and GEORGE 1983, MUICK 1980, RILLA [and others] 1979; ROBERTS, T. A. and SMITH, C. H. 1982; SAC. CO. OFF. ED. 1976; SCHETTLER and SMITH, M. 1980; WOLF 1941a,b; 1945.
- Seeding. CRUZAN 1981, HARRIS and LEISER 1979, RILLA [and others] 1979.
- Vegetative propagation. DAVIS, E. 1970; DOBBINS 1976, HARE 1977, MORGAN [and others] 1980; OLSON, J. 1969; SKINNER 1952.
- 5. Mycorrhizae, Diseases, and Mistletoe**
- 5.1 Mycorrhizae
- BECKJORD and McINTOSH 1983, DUNN 1980, MARX 1977.
- 5.2 Miscellaneous Diseases
- Armillaria*. RAABE 1975.
- "Decline." MORRISON 1965; THOMAS and BOZA 1983.
- "Dieback." HECHT-POINAR [and others] 1981.
- Drippy nut. HILDEBRAND and SCHROTH 1967, KOEHLER 1978.
- Fomes annosus*. ANONYMOUS 1974, HUNT [and others] 1974.
- Mildew. GARDNER [and others] 1972, GARDNER and YARWOOD 1978.
- Miscellaneous. DWINELL 1973, DWINELL and POWERS 1974, HEDGECOCK and LONG 1914, LONG 1913, U.S.D.A. FOREST SERVICE 1958.
- Oak wilt. HOLDEMAN 1983.
- Phytophthora*. MIRCETICH [and others] 1977.
- Reviews. HEPTING 1971, KUNTZ 1964, RAABE 1980.
- Slime fluxes. CARSON 1951.
- 5.3 Mistletoe Interactions
- ASHCRAFT 1981, BISWELL 1959, HOLLINGER 1983b, THOMSON and MAHALL 1983, WIEN 1964.
- 6. Insect Interactions**
- 6.1 Acorn Damage
- DORSEY 1967; GIBSON 1964, 1969; HILDEBRAND and SCROTH 1967, KOEHLER 1978.
- 6.2 Oakworms, Predators, and Controls
- GLYPHIS 1982, HARVILLE 1955; HORN 1973, 1974; KOEHLER 1982, MASON 1969, MILSTEAD [and others] 1980b, PINNOCK and MILSTEAD 1971, PUTTICK 1982, ROBERTSON 1972; VOLNEY [and others] 1983a,b; WICKMAN 1962; YOUNG 1977, 1980, 1982.
- 6.3 Other Lepidoptera
- DAVIS, D. 1972; EVANS 1970, GREEN 1979; JOHNSON, J. 1980a,b; MILSTEAD [and others] 1980a; OPLER 1971, 1973, 1974a,b; OPLER and DAVIS 1981, ROOT 1966.
- 6.4 Herbivores and Leaf Chemistry
- FAETH 1984, FEENEY 1970, GLYPHIS 1982, MAUFFETTE and OECHEL 1983, MAUFFETTE [and others] 1984.
- 6.5 Cynipid Galls
- BURNETT 1974; CORNELL 1983, 1984, 1985; CORNELL and WASHBURN 1979, DAILEY 1969, DAILEY and SPENGER 1973, DAILEY [and others] 1974, DOUTT 1959, EVANS 1972, FELT 1965; LYON 1959, 1963, 1964, 1969, 1970; MANI 1964, McCracken and EGBERT 1922, MORAN 1974, ROSENTHAL 1968, ROSENTHAL and KOEHLER 1971; RUSSO 1975, 1979, 1983; WASHBURN 1984, WELD 1957.
- 6.6 Miscellaneous Topics
- BROWN [and others] 1975, CARSON 1951; DUNCAN, C. 1922; OKIWELU 1977, PRITCHARD and BEER 1950, ROEPER and FRENCH 1978, SKILES [and others] 1978, WALSH 1977, WINSTON 1956.

6.7 Reviews

BROWN, L. 1980; BROWN and EADS 1965, FURNISS and CAROLIN 1977, KEEN 1958.

7. Vertebrate and Wildlife Interactions

7.1 Birds

Eating and storing acorns

Acorn woodpeckers. BOCK and BOCK 1974, BURGESS [and others] 1982, FISCHER 1906, FLEXNER 1978, GUTIERREZ and KOENIG 1978, JEHL 1979, KOENIG 1980, MacROBERTS, M. 1970; 1974; MacROBERTS, B. and MacROBERTS, M. 1972; 1976; MacROBERTS, M. and MacROBERTS, B. 1976; MICHAEL 1926, MUMME [and others] 1983, RITTER 1938; ROBERTS, R. 1976, 1979.

Jays. BENT 1946, BOSSEMA 1979 (European jay), GRINNELL 1936.

Pigeons. FRY and VAUGHN 1977; SMITH, W 1968. Quail. GUTIERREZ 1980, LINSDALE 1936, MILLER and STEBBINS 1964, SHIELDS and DUNCAN 1966.

Wild turkeys. SMITH and BROWNING 1967.

Yellow-billed magpies. LINSDALE 1946b.

Oak communities as bird habitats

Breeding bird censuses and winter bird population studies (selected examples; only earliest season of replicated series listed).

Q. agrifolia forest. COGSWELL 1966, PUGH 1956.

Q. douglasii woodland. PERRONE 1970, PERRONE and REMSEN 1970; WILLIAMS 1979a,b.

Q. dumosa insular woodland. ATWOOD 1977.

Q. durata chaparral. GAINES 1975.

Q. lobata woodland. McKINNIE 1974.

Miscellaneous riparian. BONTRAGER 1974a,b; LOVELESS and LOVELESS 1977, MANOLIS 1972, NAGATA 1982, PUGH 1961, TANGREN 1971; WILLIAMS 1980a,b.

Guild analyses and related community studies. HEJL 1981, HERTZ [and others] 1976, LANDRES and MacMAHON 1983, ROOT 1967, WAGNER 1981.

Miscellaneous. LAWRENCE 1966, MICHNY [and others] 1975, MOTRONI 1979, REMSEN and CARDIFF 1979, ROOT 1966, VERNER and RITTER 1985.

Reviews. GAINES 1977; GRAVES 1977a, b; VERNER 1980, VERNER and BOSS 1980.

7.2 Mammals

Browsing shoots

Cattle. DAYTON 1931, FRANCO 1976, MACKIE 1903, SAMPSON and JESPERSON 1963, SIEGMUND 1979, TALBOT and BISWELL 1942.

Deer. ASHCRAFT 1981, BISSELL and WEIR 1957; BISWELL 1959, 1961; BOWYER and BLEICH 1980, DAYTON 1931, DIXON 1934, GRIFFIN 1971, LAWRENCE and BISWELL 1972, LEACH

and HIEHLE 1957, LEOPOLD [and others] 1951, LONGHURST [and others] 1979, MACKIE 1903, ROBINSON 1937, SAMPSON and JESPERSON 1963.

Goats and sheep. BISSELL and WEIR 1957, GREEN [and others] 1978; SIDAHMED [and others] 1981, 1982, 1983; SAMPSON and JESPERSON 1963, WILSON [and others] 1971.

Eating acorns

Bears

Black. GOLDSMITH [and others] 1981, GRABER 1981, GRENFELL and BRODY 1983, NOVICK and STEWARD 1982, PIEKIELEK and BURTON 1975.

Grizzly. STORER and TEVIS 1955.

Cattle. HART [and others] 1947, SAMPSON and JESPERSON 1963, SIEGMUND 1979; TALBOT and BISWELL 1942, VanDYNE and HEADY 1965; WAGNON 1946, 1960.

Deer. BOWYER and BLEICH 1980, DIXON 1934, HARLOW [and others] 1975, KERNS 1980, LAWRENCE and BISWELL 1972, LEACH and HIEHLE 1957, LINSDALE and TOMICH 1953, LONGHURST [and others] 1979, MENKE and FRY 1980, POTTER and JOHNSTON 1980, TABER and DASMANN 1958.

Deer mice. JAMESON 1952, MATSON 1974.

Hogs. BARRETT, R. 1978, 1982; HOFFMAN 1985.

Squirrels

Gray. ASSERSON 1974, INGLES 1947, STIENECKER 1977. STIENECKER and BROWNING 1970.

Ground. FITCH 1948, LINSDALE 1946a, SCHITOSKEY and WOODMANSEE 1978.

Pocket gophers. GRIFFIN 1980b.

Wood rats. HORTON and WRIGHT 1944, LINSDALE and TEVIS 1951.

Miscellaneous accounts and reviews. BARRETT 1980, BARRETT [and others] 1976; DUNCAN and CLAWSON 1980; GRAVES 1977a,b; HORN and FITCH 1942, KERNS 1980, KNUDSEN 1984, LAWRENCE 1966, STARK 1968, VERNER and BOSS 1980.

8. Species Distributions

8.1 Maps and Related Topics

California range of tree species. GRIFFIN and CRITCHFIELD 1972.

General ranges of tree species. LITTLE 1971, 1976.

Inventory and distribution record keeping. DAVIS 1985, PAYSAN 1978, 1980.

Q. chrysolepis map. MYATT 1975, TUCKER and HASKELL 1960.

Q. kelloggii map. McDONALD 1969.

Soil-vegetation maps. COLWELL 1974, MALLORY [and others] 1965, 1968, 1973.

8.2 Some Distributional Notes

- Q. cornelius-mulleri*. NIXON and STEELE 1981.
Q. chrysolepis. HAVLIK 1980, McCLINTOCK [and others] 1968; SMITH, G. 1984.
Q. douglasii. GRIFFIN 1966.
Q. dumonii. GRIFFIN and TUCKER 1976, TUCKER [and others] 1982.
Q. lobata. GRIGGS 1983a, TWISSELMANN 1967 (high elev.)
Q. parvula. FLETCHER 1983, NIXON, 1980.
Q. sadleriana. JEPSON 1907, KIMBROUGH 1975, MUTH 1980, SIEMENS 1972, WARING 1969.
Q. wislizenii. McCLINTOCK [and others] 1968.

8.3 Historical Geographic Notes

- BELCHER 1843, BLAKE 1858, BOLANDER 1865, BRYANT 1848, DERBY 1932, JEPSON 1893, KELLOGG 1882, MALONEY 1945, NUGEN 1853 (map), VANCOUVER 1798.

9. Communities

- 9.1 Some Recent Classifications of Communities with Oaks
BROWN and LOWE 1980 (map), BROWN [and others] 1980, CHEATHAM and HALLER 1975, GRIFFIN 1977, KUCHLER 1977 (with map), PAYSEN [and others] 1980, THORNE 1976.

9.2 Riparian Forests and Adjacent Woodlands

Communities with *Q. lobata*

- Central Valley. WARNER 1984.
Dry Creek, Sonoma Co. McBRIDE and STRAHAN 1984.
Feather River. KNUDSEN 1984, MOTRONI 1979.
Sacramento River. BELCHER 1843, JEPSON 1893; MCGILL 1975, 1979; STRAHAN 1984.
Sacramento Valley. CONARD [and others] 1977, DUTZI 1979, GAINES 1977, GRINNELL [and others] 1930, MICHNY [and others] 1975, THOMPSON 1961.
San Joaquin Valley. GRIGGS 1983b, JEPSON 1910, MEDEIROS 1979.
Santa Clara Valley alluvial fans. COOPER 1926.

Communities with *Q. agrifolia*

- BONTRAGER 1974a,b; BOWERMAN 1944, FERREN [and others] 1984, HORTON 1960, La ROSA 1984, ROWE 1963.

Communities with miscellaneous species.

- Q. douglasii*. WARNER 1984.
Q. dumosa (Baja Calif.). ROBERTS, N. 1984.
Desert oasis woodland. THORNE 1982, THORNE [and others] 1981.
Reviews. ROBERTS, W. [and others] 1977; ROBI-CHAUX 1977, THOMPSON 1961.

9.3 Valley and Foothill Woodlands

Locally dominated by:

- Q. douglasii*. ASHER 1980, BAKER [and others] 1981, BAUER 1930, BOWERMAN 1944;

BROOKS 1973, 1981; CLARK 1937, CRITCHFIELD 1971; GRIFFIN 1973b, 1977; GRINNELL [and others] 1930, JEPSON 1910, KLYVER 1931; MALLORY [and others] 1965, 1968, 1973; McCLARAN 1985, MURPHY and CRAMPTON 1964, NAVEH 1967, NEAL 1980; THOMAS, J. 1961; TWISSELMANN 1956, 1967; VANKAT 1982, VANKAT and MAJOR 1978; WHITE, K. 1966.

Q. engelmannii. BENSON 1962, CRITCHFIELD 1971; LATHROP and THORNE 1968, 1978, LATHROP and ZUILL 1984, PEQUEGNAT 1951, SNOW 1972, WEISLANDER 1938, ZUILL 1967.

Q. garryana. ANDERSON and PASQUINELLI 1984, CLARK 1937; COOPER, P. 1972; GRIFFIN 1966, 1967; HEKTNER [and others] 1983, SAENZ 1983, SAUERWEIN 1983, SILENE 1958, STEIN 1980, SUGIHARA [and others] 1983, TUNISON 1973, WARING and MAJOR 1964.

Q. kelloggii. BAKER [and others] 1981, CRITCHFIELD 1971, MALLORY [and others] 1973, McDONALD 1980a; PARSONS, D. 1981; VANKAT and MAJOR 1978, VANKAT 1982.

Q. lobata. ASHER 1980; BAUER 1930, BLAKE 1858, CLARK 1937, COOPER, W. 1926; CRITCHFIELD 1971, DUTZI 1979, FIEBLEKORN 1972; GRIFFIN 1973b, 1976; JEPSON 1910, TWISSELMANN 1967, VANCOUVER 1798.

Miscellaneous. PAVLIK 1976.

Reviews. BARNHART 1978, GRIFFIN 1977.

Species diversity. NAVEH and WHITTAKER 1979.

9.4 Mixed-Evergreen Forests and Woodlands

Q. agrifolia locally dominant. BOWERMAN 1944, CAMPBELL 1980; COOPER, W 1922; COLE 1980, CRITCHFIELD 1971; DAVIS, E 1985; ENGELS and GENETTI 1984, FERREN [and others] 1984, FINCH and McCLEERY 1983, FLETCHER 1983, GORDON 1985; GRIFFIN 1973b, 1977; McBRIDE 1974, POLCYN 1983, TUNISON 1973, WAINWRIGHT and BARBOUR 1984, WELLS 1962.

Q. chrysolepis locally dominant. BORCHERT and HIBBERD 1984, BOWERMAN 1944, CAMPBELL 1980; COOPER, W 1922; CRITCHFIELD 1971, GRAY 1978, HORTON 1960, MALLORY 1980, McDONALD and LITRELL 1976, McDONALD [and others] 1983, MINNICH 1980; MYATT 1975, 1980; TALLEY 1974; THOMAS, J. 1961; WHITTAKER 1960.

Q. kelloggii locally dominant. TUNISON 1973, WAINWRIGHT and BARBOUR 1984.

Q. sadleriana present in understory. JEPSON 1907, KIMBROUGH 1975, MUTH 1980, SIEMENS 1972, WHITTAKER 1960.

Q. wislizenii locally dominant. BAKER [and others] 1981, BOWERMAN 1944, GRIFFIN 1977, KLY-

VER 1931, MALLORY [and others] 1965.
Reviews. COOPER 1922, SAWYER [and others] 1977.

9.5 Mixed-Conifer and Pine Forests

Q. kelloggii present. ASHER 1980, BAUER 1930, BISWELL [and others] 1966, BONNICKSON and STONE 1982, GRAY 1978, GRIFFIN 1967, HEADY and ZINKE 1978, HORTON 1960; MALLORY [and others] 1965, 1968, 1973; McDONALD [and others] 1983, MYATT 1980, PARSONS and DeBENEDETTI 1979, STARK 1965, TAPPEINER and McDONALD 1980, VASEK 1978 (with *Pinus jeffreyi*), VOGL and MILLER 1968 (with *P. jeffreyi*), WARING 1969.

9.6 Chaparral

Q. agrifolia. FERREN [and others] 1984, MOONEY [and others] 1974 (Baja Calif.).
Q. chrysolepis. BOWERMAN 1944, HORTON 1960.
Q. dumosa. ATWOOD 1977, BJORNDALEN 1978, GRINNELL [and others] 1930, HORTON 1960, PATRIC and HANES 1964, RIGGAN and DUNN 1982.
Q. durata. BOWERMAN 1944, GAINES 1975, GRAY 1978, GRIFFIN 1975, MALLORY [and others] 1968, WELLS 1962.
Q. garryana. ASHER 1980, CLARK 1937; MALLORY [and others] 1965, 1968, 1973; McMINN 1951, TWISSELMANN 1967.
Q. parvula. FLETCHER 1983.
Q. turbinella. BENSON [and others] 1967, GRIFFIN 1975, TWISSELMANN 1967.
Q. vaccinifolia. CLARK 1973, HOWALD 1981, WARING 1969 (serpentine), WHITTAKER 1960.
Q. wislizenii BAUER 1930, HORTON 1960, LAWRENCE 1966, MALLORY [and others] 1968, WELLS 1962, TWISSELMANN 1967.
Review. HANES 1977.

9.7 Desert Woodlands and Chaparral

Desert chaparral-Joshua tree woodland (*Q. turbinella* ssp. *californica*). MILLER and STEBBINS 1964, PHILLIPS [and others] 1980, THORNE 1982.
Pinyon-Juniper-Oak Woodland (*Q. chrysolepis*, *Q. turbinella* ssp. *turbinella*). HENDRICKSON and PRIGGE 1975, MILLER and STEBBINS 1964, REMSEN and CARDIFF 1979; THORNE, PRIGGE, and HENRICKSON 1981.

9.8 "Mediterranean" Comparisons

California (cf. Chile). MOONEY [and others] 1970, 1972.
California (cf. Israel). NAVEH 1967, NAVEH and WHITTAKER 1979.

10. Physiological Ecology

10.1 Crown-Soil Interactions

Allelopathy. GLIESSMAN 1978 (Costa Rica), McPHERSON and THOMPSON 1972 (Oklahoma).
Canopy effects.

Q. agrifolia. PARKER, V 1977; PARKER, V and MULLER 1979,1982; POLCYN 1983.

Q. douglasii. DUNCAN 1967; HOLLAND, 1973, 1980; HOLLAND and MORTON 1980, JACK-SON [and others] 1985, KAY and LEONARD 1980, MURPHY 1980, MURPHY and BERRY 1973, MURPHY and CRAMPTON 1964.

Q. garryana. SAENZ 1983.

Litter-soil misc. DUNN 1980, JENNY [and others] 1949.

10.2 Rooting, Soil Moisture, Water Table Interactions

ARKLEY 1981; CANNON 1914a,b; COOPER, P. 1972; COOPER, W. 1926; GRIFFIN 1967, HARRIS [and others] 1980 (Flood tolerance), HELLMERS [and others] 1955, HOLSTEIN 1984, KIMBALL 1950, KRAUSE and KUMMEROW 1977, KUMMEROW and MANGAN 1981, LEWIS 1968; LEWIS and BURGHY 1964,1967; MEYER 1983, NG and MILLER 1980, PITT [and others] 1978, ROWE 1963, RUNDEL 1980; THOMAS, W. 1980, WARING and MAJOR 1964.

10.3 Water Stress, Transpiration

BAKER [and others] 1981; BOWMAN and ROBERTS, S. 1985; BURK 1978, GRIFFIN 1973b, HASTINGS and OECHEL 1982; HOLLINGER 1983a, b; MAUFFETTE and OECHEL 1983, MILLER, P.C. 1981, OECHEL [and others] 1985; PARKER, V 1984; ROBERTS, S.W 1982; ROBERTS and SMITH 1980; ROBERTS, SW [and others] 1981; SNOW 1972, SYVERTSEN 1974, YOCUM 1935.

10.4 Fire Interactions

Changes in fire frequency. DODGE 1975, HEADY and ZINKE 1978, MINNICH 1980, PARSONS 1981, PARSONS and DeBENEDETTI 1979, WELLS 1962.

Fire tolerance. GRIFFIN 1980a, LAWRENCE 1966, PLUMB 1980, PLUMB and GOMEZ 1983, SNOW 1980.

Chaparral biomass. CHANDLER 1955, RIGGAN and DUNN 1982, RIGGAN and LOPEZ 1982, WAKIMOTO 1978.

Fuel management, prescribed burning. BISWELL [and others] 1966, BROWN, R. 1973; GREEN 1980, GREEN and SCHIMKE 1971, LATHROP and MARTIN 1982, MARTIN 1982.

Miscellaneous. PALMA-FLEMING and KEPNER 1983,

10.5 Nutritional Interactions

Carbohydrates, photosynthesis. BRYAN and WRIGHT 1976; HASTINGS and OECHEL 1982; HOLLINGER 1983a,b; MAUFFETTE and OECHEL 1985, MILLER, P.C. 1981; MILLER and POOLE 1980; MOONEY and HAYS 1973, OECHEL and HASTINGS 1983, OECHEL [and others] 1981, RUNDEL 1980.

Chemical composition. McCOLL 1979, PALMER 1917; PARKER, J. 1977; WALLACE [and others] 1982.

Nitrogen and tannin levels. DUNN 1980, FEENEY 1970, FLEXNER 1978, GLYPHIS 1982, HOLLINGER 1983a, McCOLL 1979, RIGGEN and LOPEZ 1982; SAMPSON and SAMISH 1935, ZINKE 1969, 1982.

10.6 Chemical Control

IKENBERRY [and others] 1938, JOHNSON, R. [and others] 1980, JOHNSON, W. [and others] 1959, LEONARD 1956, LEONARD and CARLSON 1959, LEONARD and HARVEY 1965, MURPHY and CRAMPTON 1964, OTTER 1960; PLUMB 1963, 1971; PLUMB and GOODWIN 1982; WARREN 1980a,b.

10.7 Air Quality and Climatic Problems

Heat damage. MIELKE and KIMMEY 1942.

Ozone damage

Oaks. GEMMILL 1980, McBRIDE 1978; MILLER [and others] 1980, STOLTE 1982

Lichens in oaks. ROSS and NASH 1981, WOOD 1984.

Salt (and "wind") damage. OGDEN 1975, 1980.

Sulphur dioxide. WINNER 1981, WINNER [and others] 1982.

10.8 Miscellaneous

FRASER-SMITH 1978 (ULF potentials), ISHAM and MORIARTY 1981 (dendrochronology, Calif.), JOHNSON and RISSER 1978 (ring width and climate, Oklahoma), WEAVER and JONES 1980 (leaf effect on rain).

11. Ethnobotany

11.1 Aboriginal Acorn Usage

BARRETT S. and GIFFORD 1933; BARROWS 1900, BAUMHOFF 1963, BEAN and SAUBEL 1972, CHESNUT 1902, DuBOIS 1940, GIFFORD 1971, JAEGER 1920, MERRIAM 1918; WHITE, R. 1963.

11.2 Modern Acorn Usage

BAINBRIDGE 1984, MERRIAM 1918.

11.3 General Reviews and Miscellaneous

BALLS 1972, HOOVER 1977, KROEBER 1971, LEE 1978, PERI 1985 (oak pruning), SWEET 1962; WHITE, R. 1963.

12. Landscape Management

12.1 Cultural Interactions

Aesthetic and recreational values. ALFANO 1980, JEPSON 1903; LEMMON, R. 1952; LITTON 1980, McCLARAN 1983, McCLINTOCK 1983; ROSSI 1979, 1980: SAC. CO. OFF ED. 1976, TUCKER 1958.

Hazards to public. ALFANO 1980; ANONYMOUS 1970, 1974; KELLOGG 1882, WAGENER 1963.

Unusual oaks. ABRAMS 1923, FULLER 1970, PARDO 1978; STERN 1963, 1977; TUCKER 1983.

12.2 Urban Development Impacts

COATE 1983, DARNELL 1983, GIBBENS and HEADY 1964, HARDESTY 1982, IRVINE 1982; McBRIDE and JACOBS 1976, 1979; McCLARAN 1983, ROGERS 1980, SAC. CO. OFF ED. 1976, SCHEIDLINGER and ZEDLER 1980.

13. Range Management

13.1 Oak Tree Removal to Promote Grass

Chemical. EMRICK and LEONARD 1954, GRAHAM 1958; JOHNSON, W. [and others] 1959; KAY and LEONARD 1980, LEONARD 1956, LEONARD and CARLSON 1959, LEONARD and HARVEY 1965, LEONARD and MURPHY 1965, MURPHY 1980, MURPHY and BERRY 1973, MURPHY and CRAMPTON 1964, OLSON [and others] 1983, RAGUSE [and others] 1984.

Mechanical. BROWN, R. 1973; DAL PORTO and CARLSON 1965.

13.2 Grazing Effects on Oaks (for oak effects on grazing see 10.1; for other livestock or wildlife effects see 7.2)

Cattle browsing shoots. DAYTON 1931, FRANCO 1976, MACKIE 1903, SAMPSON and JESPERSON 1963, SIEGMUND 1979.

Cattle eating acorns. DUNCAN and CLAWSON 1980, HART [and others] 1947, SAMPSON and JESPERSON 1963, SIEGMUND 1979; WAGNON 1946, 1960.

13.3 Oak Brush Control

JOHNSON, R. [and others] 1980; PITT [and others] 1978; PLUMB 1963, 1971; PLUMB and GOODWIN 1982.

14. Tree Management and Wood Utilization

14.1 Growth and Yield

BOLSINGER 1980, ELLIOTT 1958, FINCH and McCLEERY 1983, GEMMILL 1980, HARRINGTON [and others] 1979, HORNIBROOK [and others] 1950; JOHNSON, F and RISSER 1978; McDONALD 1980a,b; 1981, 1983; OSWALD 1979; OSWALD and HORNIBROOK 1966, PAYSEN 1980; PILLSBURY 1978, 1980; PILLSBURY and BROCKHOUS 1979, 1981; PILLSBURY and KIRKLEY 1982, 1984; PILLSBURY and STEPHENS 1978, PILLSBURY [and others] 1978, POWERS 1972, ROY 1955, SNELL 1979, SUNDAHL 1966, U.S. FOREST SERVICE 1954.

14.2 Stand Structure

BOLSINGER 1980; GRIFFIN 1971, 1977; McCLARAN 1985, PILLSBURY 1978, WARNER 1984, WHITE 1966.

14.3 Silvics and Thinning

KIMMEY 1950, LONGHURST 1956; McDONALD 1969, 1978, 1980b; McDONALD and others 1983.

14.4 Wood Products (other than fuelwood)

ASHER 1980, DICKINSON 1958; DOST 1984, DOST and GORVAD 1977, DOST and MAXEY 1964, DOST [and others] 1966, ECKLUND 1959; ELLWOOD 1958, 1959a,b; ELLWOOD and ECKLUND 1963a,b; ELLWOOD [and others] 1963, HALL and ALLEN 1980, HORNIBROOK [and others] 1950, MALCOLM 1962; MAY 1956, 1957, 1958; McLAIN and STERN 1978, MITCHELL 1958, PALMER 1917, PAUL 1962; PFEIFFER 1953a,b; RESCH 1964; SCHNIEWIND 1958, 1959, 1960, 1962; SCHNIEWIND and BRYAN 1959; SCHNIEWIND and KERSAVAGE 1961, 1962; SMITH 1949, 1950, 1952, 1956, 1961; STERN, G., 1978; USDA FOREST SERVICE 1955, WAHLGREN 1958, WARD and SHEDD 1979.

14.5 Fuelwood, Biomass

DAL PORTO and CARLSON 1965, GRONCKI 1980, MENKE and FREY 1980, PILLSBURY and WILLIAMSON 1980, RIGGAN and DUNN 1982 (review), RIGGAN and LOPEZ 1982, SPENSER and JOINER 1979.

14.6 Management Plans

ANDERSON and PASQUINELLI 1984, ASHER 1980, EDWARDS 1957, MURRAY 1973, PLUMB and McDONALD 1981, ROY 1962, TAPPEINER and McDONALD 1980.

14.7 Policy and Economics

EDWARDS 1957, STINE 1980; USDA FOREST SERVICE 1954, 1965; VAUX 1961.

15. Research Planning and Coordination

CALIFORNIA BOARD OF FORESTRY 1985, MUICK and BARTOLOME 1985, PASSOF and BARTOLOME 1985.

SPECIES INDEX

California Quercus species and named hybrids (X)

Bibliography reference numbers

<i>agrifolia</i>	3, 4, 12, 26, 29, 37, 54, 57, 58, 61, 66, 67, 69, 82, 84, 85, 95, 96, 105, 112, 113, 115, 120, 122, 130, 136, 138, 150, 169, 170, 171, 172, 174, 178, 194, 196, 203, 207, 211, 213, 214, 227, 230, 241, 248, 249, 257, 260, 261, 262, 263, 266, 267, 268, 275, 280, 289, 292, 304, 315, 317, 326, 328, 329, 330, 339, 348, 349, 351, 352, 357, 359, 361, 362, 364, 365, 366, 370, 372, 381, 385, 386, 387, 388, 389, 390, 392, 394, 395, 396, 399, 400, 401, 416, 423, 431, 432, 434, 435, 436, 437, 441, 443, 444, 447, 465, 466, 479, 480, 485, 487, 489, 494, 500, 502, 503, 509, 512, 513, 514, 515, 517, 523, 525, 528, 529, 530, 531, 532, 536, 539, 542, 545, 546, 547, 548, 563, 564, 572, 574, 575, 578, 579, 581, 596, 598, 599, 628, 630, 631, 637, 647, 652, 660, 662, 663, 665, 666, 679, 689, 691, 692, 703, 709, 710, 712, 717, 732, 733, 736, 737, 741, 742, 748, 752, 763, 764, 765, 768.
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var. *oxyadenia*

260, 271, 670, 754

X alvordiana

43, 44, 45, 146, 216, 219, 260, 648, 674, 675, 676, 684, 691, 692, 733.

breweri (see *garryana*)

X chasei

157, 160, 272, 417, 684.

chrysolepis

3, 10, 27, 28, 29, 38, 50, 55, 59, 61, 74, 82, 92, 93, 97, 112, 130, 138, 188, 189, 192, 199, 201, 202, 214, 227, 230, 239, 245, 246, 261, 265, 266, 267, 268, 280, 311, 317, 329, 332, 340, 341, 351, 352, 356, 363, 375, 376, 381, 384, 385, 400, 410, 411, 427, 433, 436, 437, 441, 455, 463, 464, 473, 498, 501, 504, 505, 512, 513, 528, 531, 536, 537, 538, 539, 547, 549, 551, 553, 576, 581, 593, 596, 625, 628, 657, 666, 668, 684, 692, 699, 700, 708, 713, 722, 723, 724, 732, 735.

cornelius-mulleri

472.

California Quercus
species and named
hybrids (X)

Bibliography reference numbers

<i>douglasii</i>	3, 4, 10, 28, 34, 36, 38, 43, 44, 45, 54, 61, 64, 65, 73, 80, 84, 85, 92, 112, 117, 118, 138, 140, 142, 144, 150, 170, 173, 175, 177, 194, 196, 198, 199, 201, 209, 211, 213, 214, 216, 223, 224, 230, 235, 236, 248, 253, 254, 255, 256, 264, 279, 281, 297, 298, 300, 313, 317, 324, 331, 336, 337, 338, 339, 340, 342, 343, 344, 349, 351, 352, 356, 359, 360, 370, 372, 374, 376, 385, 389, 390, 398, 420, 431, 436, 437, 451, 455, 457, 458, 459, 464, 466, 467, 468, 498, 504, 517, 523, 524, 525, 528, 529, 530, 531, 545, 547, 554, 574, 575, 579, 588, 589, 599, 611, 637, 653, 656, 658, 665, 671, 689, 691, 699, 700, 707, 712, 713, 714, 725, 733, 739, 740, 741, 742.
<i>dumosa</i>	12, 28, 33, 37, 44, 51, 61, 62, 78, 79, 89, 92, 127, 130, 138, 142, 192, 202, 205, 207, 229, 238, 244, 245, 260, 266, 267, 268, 280, 295, 303, 319, 322, 328, 329, 359, 360, 376, 429, 430, 437, 441, 442, 455, 466, 470, 475, 476, 477, 501, 509, 512, 513, 534, 535, 536, 537, 538, 539, 540, 553, 556, 557, 560, 563, 565, 612, 613, 618, 674, 675, 677, 718, 766, 767.
<i>dunnii</i>	116, 158, 220, 260, 280, 307, 341, 463, 593, 671, 686, 687.
<i>durata</i>	61, 130, 176, 182, 194, 202, 214, 229, 260, 375, 437, 466, 501, 554, 666, 682, 719, 732.
<i>engelmannii</i>	37, 44, 80, 112, 130, 138, 139, 280, 297, 319, 327, 328, 329, 330, 436, 498, 515, 528, 598, 630, 631, 637, 666, 671, 736, 738, 768.
<i>X eplingii</i>	4, 129, 209, 451, 496, 684.
<i>X ganderi</i>	496, 684, 754.
<i>garryana</i>	
var. <i>breweri</i> (and var. <i>semota</i>)	10, 93, 112, 159, 375, 374, 377, 416, 435, 462, 596, 692, 722.
var. <i>garryana</i>	4, 54, 61, 92, 93, 103, 138, 142, 161, 162, 209, 210, 225, 242, 244, 265, 361, 376, 389, 390, 411, 415, 435, 438, 451, 457, 510, 519, 522, 528, 551, 583, 590, 595, 617, 624, 636, 649, 661, 666, 671, 689, 717, 722, 723, 724, 726, 735.
<i>X grandidentata</i>	164, 329, 684.
<i>X howellii</i>	272, 678, 684.

California Quercus
species and named
hybrids (X)

Bibliography reference numbers

<i>X jolonensis</i>	273, 594, 661, 684, 692.
<i>kelloggii</i>	3, 4, 5, 8, 9, 10, 26, 27, 28, 31, 36, 38, 44, 49, 50, 55, 56, 63, 87, 92, 114, 115, 126, 127, 130, 132, 135, 137, 138, 142, 144, 145, 148, 149, 150, 151, 152, 153, 154, 155, 156, 179, 180, 187, 189, 192, 194, 196, 199, 201, 202, 206, 208, 209, 210, 214, 223, 224, 225, 228, 230, 240, 242, 261, 265, 266, 274, 275, 277, 280, 282, 283, 285, 296, 304, 308, 311, 313, 317, 327, 332, 339, 340, 343, 344, 349, 351, 352, 356, 359, 360, 365, 373, 376, 381, 389, 390, 391, 393, 394, 404, 405, 406, 407, 408, 409, 410, 411, 415, 416, 420, 424, 426, 428, 436, 437, 438, 457, 460, 464, 466, 473, 491, 492, 493, 498, 504, 505, 510, 512, 513, 519, 522, 525, 528, 533, 536, 537, 538, 539, 543, 544, 545, 547, 551, 555, 566, 584, 592, 596, 599, 601, 602, 603, 604, 606, 607, 622, 623, 624, 625, 626, 627, 629, 632, 634, 635, 641, 642, 650, 653, 671, 689, 695, 699, 702, 703, 708, 713, 715, 717, 721, 722, 724, 726, 727, 733, 735, 737, 748, 749, 751, 761.
<i>X kewensis</i>	490.
<i>lobata</i>	1, 6, 10, 26, 29, 36, 37, 38, 42, 52, 54, 55, 75, 80, 81, 84, 85, 92, 99, 105, 117, 125, 133, 134, 138, 143, 150, 170, 175, 177, 183, 188, 194, 211, 212, 213, 214, 215, 216, 217, 218, 221, 222, 224, 225, 227, 228, 230, 233, 235, 257, 258, 259, 261, 279, 288, 297, 306, 312, 313, 314, 317, 331, 343, 344, 349, 351, 352, 356, 357, 358, 370, 371, 372, 374, 378, 385, 394, 395, 396, 397, 412, 413, 414, 415, 419, 425, 431, 437, 448, 449, 455, 457, 467, 474, 479, 480, 481, 510, 523, 529, 530, 531, 533, 545, 549, 555, 563, 564, 572, 574, 575, 576, 577, 579, 589, 599, 605, 637, 639, 640, 646, 654, 658, 662, 663, 664, 665, 681, 691, 692, 713, 714, 720, 725, 729, 733, 736, 741, 742, 753, 759.
<i>X macdonaldii</i>	207, 455, 684.
<i>X morehus</i>	5, 44, 54, 61, 114, 157, 160, 209, 260, 272, 273, 280, 305, 329, 342, 344, 496, 515, 589, 661, 671, 684, 692, 751.
<i>X munzii</i>	273, 681.

<i>California Quercus</i> species and named hybrids (X)	Bibliography reference numbers
<i>oxyadenia</i> (see <i>agrifolia</i>)	
<i>palmeri</i> (see <i>dunnii</i>)	
<i>parvula</i>	174, 207, 455, 471, 684.
<i>pricei</i> (see <i>agrifolia</i>)	
<i>sadleriana</i>	66, 290, 299, 310, 461, 462, 615, 684, 722, 735, 745.
<i>shrevei</i> (see <i>wislizenii</i>)	
X <i>subconvexa</i>	147, 272, 278, 684.
X <i>townei</i> (see X <i>macdonaldii</i>)	
<i>tomentella</i>	128, 455, 463, 666, 684.
<i>turbinella</i> var. <i>californica</i>	43, 45, 204, 214, 371, 427, 521, 668, 668, 676, 677, 681, 682, 708.
var. <i>turbinella</i>	110, 121, 229, 246, 341, 553, 667, 668, 692.
<i>vaccinifolia</i>	26, 93, 127, 224, 270, 283, 462, 463, 596, 666, 684, 722, 723, 735.
<i>wislizenii</i> var. <i>frutescens</i>	63, 104, 229, 272, 328, 416, 509, 591, 661, 732.
var. <i>wislizenii</i>	5, 10, 27, 28, 32, 34, 36, 37, 38, 44, 47, 55, 61, 67, 104, 112, 114, 115, 120, 138, 142, 157, 160, 173, 192, 198, 199, 201, 202, 214, 216, 224, 227, 235, 264, 266, 267, 268, 280, 296, 313, 328, 329, 331, 337, 338, 339, 340, 342, 343, 344, 356, 359, 360, 362, 364, 365, 366, 374, 376, 385, 400, 420, 437, 455, 457, 464, 473, 512, 513, 522, 523, 528, 530, 536, 537, 538, 539, 581, 589, 656, 658, 660, 664, 671, 692, 700, 703, 707, 747, 751.
Oaks (or acorns) in general, or indirect references	7, 46, 53, 76, 77, 83, 94, 106, 226, 251, 320, 323, 334, 350, 353, 354, 369, 379, 422, 445, 452, 484, 488, 495, 508, 526, 559, 561, 562, 582, 585, 608, 619, 633, 643, 651, 669, 671, 673, 680, 683, 693, 696, 701, 705, 737, 750.

<i>California Quercus</i> species and named hybrids (X)	Bibliography reference numbers
Many California species included	11, 29, 30, 33, 35, 39, 40, 70, 71, 72, 80, 88, 91, 104, 107, 108, 111, 112, 119, 124, 141, 163, 167, 181, 184, 185, 190, 195, 197, 199, 204, 216, 219, 232, 237, 247, 278, 291, 309, 321, 334, 345, 346, 347, 353, 354, 355, 368, 403, 450, 478, 489, 511, 513, 514, 527, 541, 550, 558, 567, 571, 580, 587, 591, 648, 655, 679, 684, 685, 698, 731, 734, 743, 744, 745, 755.
Fossil species involved	2, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 90, 97, 100, 101, 299, 341, 367, 486, 488, 554, 620, 672, 703, 728.

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Among natural resource professionals, California oaks continue to attract considerable attention. This report provides a comprehensive bibliography of the extensive but scattered oak literature. The 768 references are organized into two systems: (a) a topical outline, in which references are displayed under key word headings and subheadings, and author-date entries help to locate items by researcher or date; and (b) a *Quercus* species index, in which references contain serial numbers for all species and hybrids.

Retrieval Terms: oaks, bibliography, indexes, *Quercus*, California



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