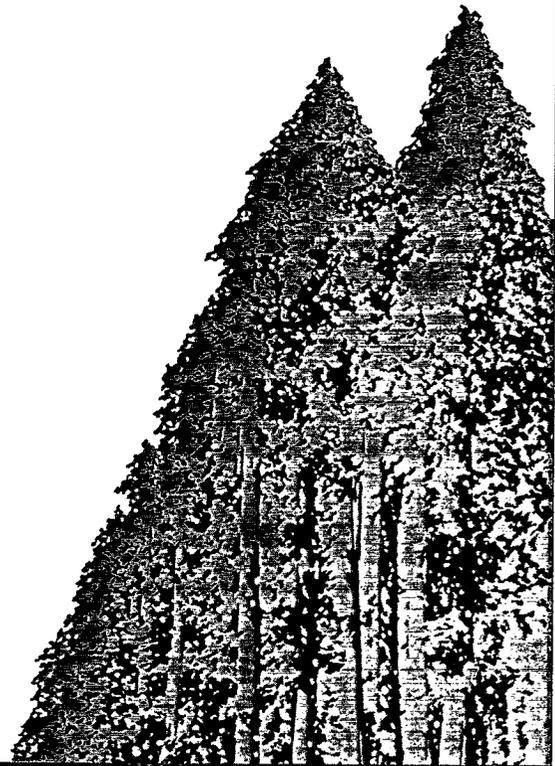


14132

**Extent and Ownership of
California's Hardwood
Rangelands**



A Report by
Forest and Rangeland Resources Assessment Program (FRRAP)
California Department of Forestry and Fire Protection

The Strategic and Resources Planning Program (SRPP) was formerly Forest
and Rangeland Resources Assessment Program (FRRAP).

TABLE OF CONTENTS

	Page
Purpose	1
Mapping and Analysis Methodologies.	1
Hardwood Rangelands	1
Ownership	5
Reserved Status	5
All Hardwood Rangelands.	7
Blue Oak Woodland	10
Blue Oak-Foothill Pine Woodland	13
Valley Oak Woodland	16
Coastal Oak Woodland	19
Interior and/or Canyon Live Oak Woodland	22
Montane Hardwood Mix	26
Summary of State and County Reserved Hardwood Rangelands	29
Literature Cited	34

Figures

1. Decision Tree for Mapping Hardwood Rangeland Cover Types	3
2a. Distribution of Hardwood Rangelands.	8
2b. Concentration of Public Ownership: All Hardwood Rangelands.	9
2c. Concentration of Reserved Lands: All Hardwood Rangelands	9
3a. Distribution of Blue Oak Woodland	11
3b. Concentration of Public Ownership: Blue Oak Woodland	12
3c. Concentration of Reserved Lands: Blue Oak Woodland	12
4a. Distribution of Blue Oak-Foothill Pine Woodland	14
4b. Concentration of Public Ownership: Blue Oak-Foothill Pine Woodland.	15
4c. Concentration of Reserved Lands: Blue Oak-Foothill Pine Woodland	15
5a. Distribution of Valley Oak Woodland.	17
5b. Concentration of Public Ownership: Valley Oak Woodland	18
5c. Concentration of Reserved Lands: Valley Oak Woodland	18
6a. Distribution of Coastal Oak Woodland	20
6b. Concentration of Public Ownership: Coastal Oak Woodland	21
6c. Concentration of Reserved Lands: Coastal Oak Woodland	21
7a. Distribution of Interior and/or Canyon Live Oak Woodland	23
7b. Concentration of Public Ownership: Interior and/or Canyon Live Oak Woodland	24
7c. Concentration of Reserved Lands: Interior and/or Canyon Live Oak Woodland	24
8a. Distribution of Montane Hardwood Mix	27
8b. Concentration of Public Ownership: Montane Hardwood Mix	28
8c. Concentration of Reserved Lands: Montane Hardwood Mix	28

<i>Tables</i>	Page
1. Species Group Descriptions for Hardwood Rangeland Cover Types	1
2. Hierarchy of Ownership Categories	5
3. Percent of Hardwood Rangeland Cover Type in Reserved Status.	29
4. Percentage of Counties with Greater Than Expected Concentration of Reserved Ownership by Hardwood Rangeland Cover Type	29
5. Counties Ranked According to Protection of Hardwood Rangelands Through Reserves	30
6. Additional Acres of Reserved Hardwood Rangelands Needed to Achieve Protection Equal to the State Average, by County.	32
7. Additional Acres of Private Reserved Hardwood Rangelands Needed to Achieve Protection Equal to the State Average, by County	33

<i>Appendices</i>	
A. Tables A-1 and A-2. Hardwood Rangeland Acres for California.	A-1
B. Tables B-1 through B-47. Hardwood Rangeland Acres by County for California	B-1
C. Tables C-1a through C-7d. Analysis of County Ownership and Reserved Status of Hardwood Cover Types	C-1

PURPOSE

This document reports on the extent and ownership of hardwood rangelands in California. Hardwood rangelands are reported in terms of six cover types and four canopy closure classes. Ownership is reported either as private or public agency.

This report also analyzes the reserved status of hardwood rangelands by county. Counties are ranked according to the proportion of each cover type protected in reserves. The report also estimates the amount of additional reserved land needed in each county to achieve an equal degree of protection across the state.

MAPPING AND ANALYSIS METHODOLOGIES

Hardwood Rangelands

The hardwood rangelands mapping project was based on a manual interpretation of aerial photography. The details of this project are covered in the final report, *Mapping and GIS Database Development for California's Hardwood Resources*, (Pillsbury and others, 1991). The following is a summary of the hardwood mapping methodology.

Cover type (species group) and canopy closure were classified for all hardwood rangelands that occurred at elevations less than 5,000 feet, in stands greater than 40 acres, within the natural range of the dominant hardwood rangeland species described by Griffin and Critchfield (1972). As a result, hardwood rangelands in 47 counties were mapped. The species group descriptions are listed in Table 1.

<i>Table 1. Species Group Descriptions for Hardwood Rangeland Cover Types</i>				
Blue Oak Woodland	Blue Oak/ Foothill Pine	Valley Oak Woodland	Coastal Oak Woodland	Montane Hardwood Mix *
Blue oak	Blue oak- foothill pine	Valley oak	Coast live oak Oregon white oak Engelmann oak	CA black oak Pacific madrone Tanoak Alder Interior live oak Canyon live oak
Interior live oak Coast live oak Buckeye Juniper Canyon live oak Valley oak Ponderosa pine	Coast live oak Interior live oak Canyon live oak	Interior live oak Blue oak Coast live oak Canyon live oak Foothill pine Oregon white oak	CA black oak Canyon live oak Interior live oak Laurel Valley oak Blue oak Foothill pine	Oregon white oak Coast live oak CA laurel Valley oak Blue oak Foothill pine Ponderosa pine

Note: Species in bold are dominant in the woodland type; species in non-bold are associates.

* Generally occurs as a mix of the dominant species listed.

Source: Pillsbury and others, 1991

In each species group, "primary" species (in bold) comprise the greatest proportion in the total tree canopy cover; "associate" species (in non-bold print) occur in sub-groups comprising a minimum of 5 percent of the total tree canopy cover.

For a majority of hardwood rangelands, the California Department of Forestry and Fire Protection (CDF) provided 1981 black and white, 9" x 9" format, 1:24,000 scale photography. This photography was limited in its coverage on federal lands. For these areas, National High Altitude Program (NHAP) 1:58,000 scale color infrared photography was used to supplement the CDF photography. The NHAP photography from 1981-85 resides at the University of California Santa Barbara Map and Imagery Library. Therefore, the maps produced by Pillsbury and others (1991) represent the distribution of hardwood rangelands in the early 1980s.

Blue oak woodland, blue oak-foothill pine woodland, valley oak woodland, and coastal oak woodland species groupings were classified according to the qualitative descriptions provided by the Wildlife Habitat Relationships (WHR) system (Mayer and Laudenslayer, 1988). The montane hardwood mix species group differs from the WHR montane hardwood habitat type in that interior live oak is considered one of the primary species, and this grouping is characterized by more of a mix of hardwood species. The specific classification rules used by Pillsbury and others (1991) are presented in Figure 1.

Canopy closure was mapped into four classes:

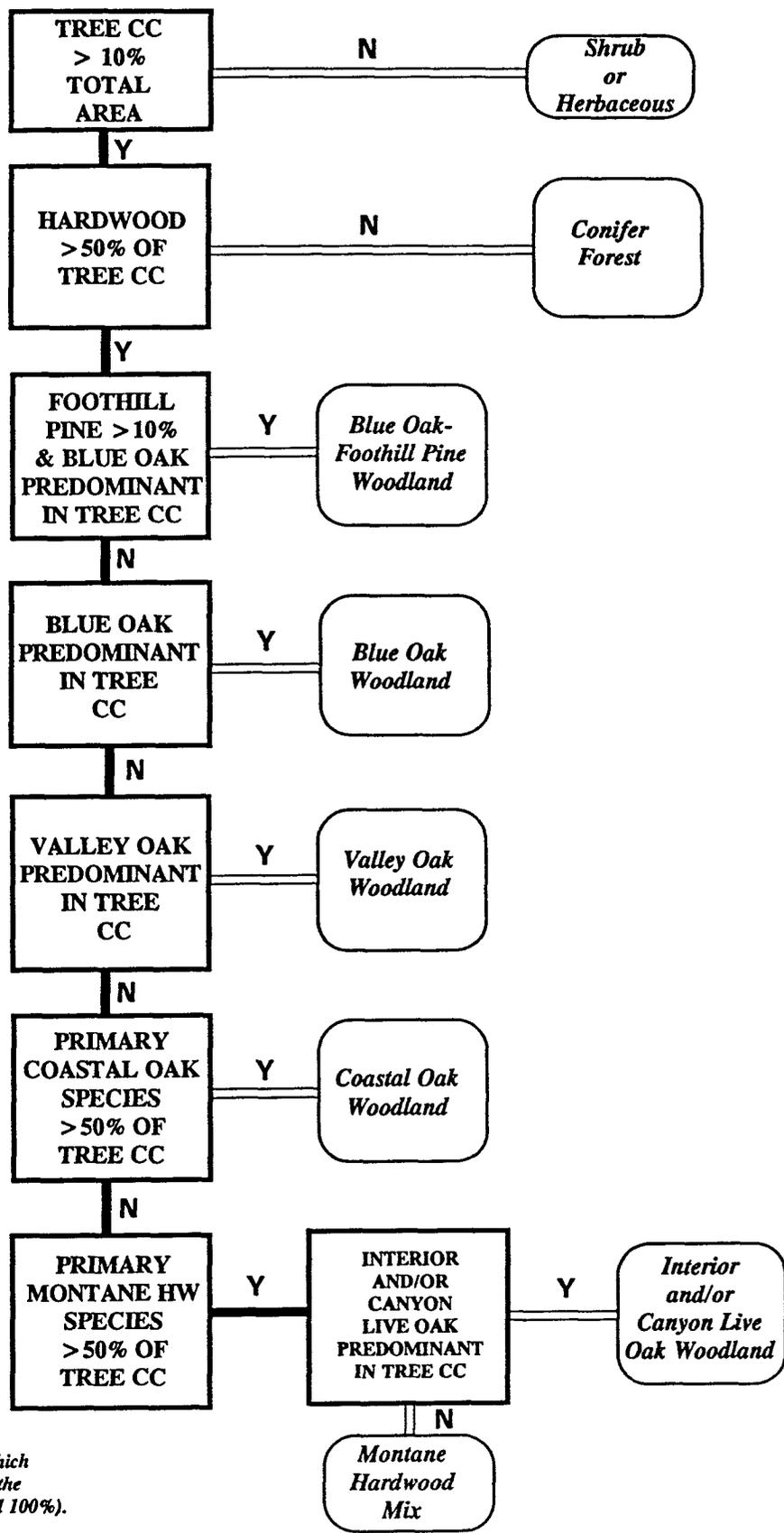
1. Scattered	< 10%
2. Low	10-33%
3. Medium	34-75%
4. High	76-100%

Canopy closure classes were selected by the contractor to indicate general management units and were ocularly estimated by photo interpreters with the use of a canopy closure template. These ranges do not correspond to WHR canopy cover classes. The scattered class would not be considered as a hardwood species group by the WHR system due to a lack of canopy cover.

Hardwood stands were transferred from the aerial photographs to United States Geological Survey 1:100,000 topographic maps with a Bausch and Lomb zoom transfer scope. Polygons were drawn around stands of uniform canopy closure. All hardwood species groups were then identified during aerial flights because photo interpreters were unable to distinguish clearly among many of the species groups, i.e., blue oak woodland and blue oak-foothill pine woodland, or blue oak woodland and valley oak woodland. Live oaks (coast live oak, interior live oak, and canyon live oak) were the most difficult to visually distinguish. A more problematic issue is that the three live oak species occur in all of the species groups but in variable proportions; therefore, assigning a species group code becomes even more arduous. As a result, errors are more likely when the live oak species are present, especially where their ranges overlap.

The Forest and Rangeland Resources Assessment Program (FRRAP) created two distinct cover types from Pillsbury's montane hardwood mix species group: interior and/or canyon live oak and a residual class of montane hardwood mix (Figure 1). For some hardwood stands, Pillsbury and others (1991) assigned a sub-type code indicating the primary and

Figure 1. Decision Tree for Mapping Hardwood Rangeland Cover Types



Mapping Criteria:
 40 acre minimum mapping unit
 Restricted to Elevations < 5000 feet

The "predominant" species is that which comprises the greatest proportion in the total tree canopy cover (not to exceed 100%).

associate species occupying the stand. This report includes maps and acreages of the interior and/or canyon live oak woodland because of the extent of this sub-type. Thus, maps and acreages have been reported for six hardwood rangeland cover types as opposed to the five hardwood species groups that Pillsbury focuses on in his report.

The spatial extent of Pillsbury's montane hardwood mix species group can be shown by the overlay of the interior and/or canyon live oak woodland map and the residual montane hardwood mix map. The true extent of interior and/or canyon live oak woodland is greater than that shown in the maps because Pillsbury began the assignment of sub-type codes midway through his mapping project. Prior to that time, this hardwood rangeland cover type was included in the montane hardwood mix species group. Given the relatively small acreage in the residual montane hardwood mix class, this underestimation is probably not serious.

It is important to consider that only a portion of the montane hardwood mix class was mapped by Pillsbury, due to a least three factors: (1) the class often occurs as inclusions that may be less than the minimum mapping unit used by Pillsbury; (2) the class may occur at elevations over 5000 feet in some parts of the state; and (3) the class frequently extends beyond the geographic range of dominant hardwood rangeland species, areas not mapped by Pillsbury. The final acreages reported for each cover type may differ from other hardwood acreage reports (Bolsinger, 1988) because of differences in classification decision rules, differences between map-based estimates and sample-based estimates, different minimum mapping units, and differences in mapping techniques.

The Geographic Information System (GIS) coverage used by FRRAP in this report differs from the original Pillsbury base maps. The hardwood data layer created by Pillsbury was merged in the FRRAP GIS with redwood lands mapped by Fox, 1988. Rectifying discrepancies between the hardwood rangeland data and the redwood data was problematic. Fortunately, overlap between the two mapping efforts was limited. In a few cases, we enlisted the aid of CDF field personnel to provide information to resolve discrepancies. The cases often involved mixed stands of redwood with hardwood species where estimating dominant species for species group coding was difficult.

Where the hardwood rangelands and redwood coverages overlapped, "sliver" polygons much smaller than 40 acres were generated in the hardwood rangelands data layer because polygon boundaries never coincided perfectly. The interior portion of the polygon was often coded as redwood with any remaining portions of the Pillsbury polygon retaining their hardwood rangeland cover type code.

CDF is currently working on a project to update the hardwood rangeland polygon maps, assess the accuracy of both the baseline (1981) and updated (1990) hardwood data, and develop procedures for systematic long-term hardwood monitoring and GIS data updating. Landsat Thematic Mapper imagery is the source for the hardwood update. This project is under contract to Pacific Meridian Resources, Emeryville, California, and will be completed by March 1994.

Ownership

The Forest and Rangeland Resources Assessment Program (FRRAP) ownership layer was digitized from 1:100,000 Bureau of Land Management (BLM) Surface Management Status maps, some of which date from the early 1970s. The FRRAP ownership data are updated periodically using maps for national forests, state and national parks, and other sources as they become available.

For the analysis reported in this document, ownership was classified with the following hierarchical scheme.

Table 2. Hierarchy of Ownership Categories

- I. Private
- II. Public
 - A. Reserved
 - 1. U.S. Forest Service reserved
 - 2. California Department of Parks and Recreation
 - 3. Other public reserved
 - a. National Park Service
 - b. U.S. Fish and Wildlife Service
 - c. California Department of Fish and Game
 - d. City, county, and regional parks
 - B. Unreserved
 - 1. U.S. Forest Service unreserved
 - 2. Bureau of Land Management
 - 3. Department of Defense
 - 4. Other public unreserved
 - a. Bureau of Indian Affairs
 - b. Bureau of Reclamation
 - c. California Department of Forestry and Fire Protection
 - d. Other city, county, regional, and state lands

Due to the nature of the source materials, some smaller and/or more recent reserved areas are not included in the data.

Reserved Status

This document analyzes the distribution of reserved hardwood rangeland cover types and assesses the impact of reserving in each county a proportion of hardwood rangelands equal to that currently reserved at the state level. Reserves are often necessary (but not sufficient) components of a conservation strategy for species and habitats. Reserve strategies may employ a number of different criteria, such as current resource conditions, restoration potential, and distribution. A common strategy used is protection of a species or habitat type throughout its geographic range.

Publicly owned hardwood rangelands that are held in reserve are termed reserved hardwood rangelands. The ratio of the proportion of reserved hardwood rangelands in a county to the state level is the relative concentration of reserved hardwood rangelands. Values greater than one indicate counties where, other things being equal, hardwood rangelands are more adequately protected.

Publicly owned hardwood rangelands constitute a pool from which reserves can be more easily created. The relative size of that pool for each county is estimated by the ratio of the proportion of a given hardwood rangeland cover type in public ownership at a county level to that at the state level. Values greater than one indicate counties where the public owns proportionally more of a given hardwood rangeland cover type than it does at the state level.

The impact of achieving the current state level of protection in each county entails the following: (1) calculate how much additional land of each hardwood rangeland cover type must be reserved in order to attain the target; (2) determine if the pool of publicly owned, unreserved hardwood rangeland cover type can provide those lands; and (3) if not, calculate the amount of privately held hardwood rangeland cover type that would need to be purchased to achieve the target. Counties are then ranked on the basis of total amount of additional land needed and the amount of private land within that total.

This analysis neither judges the appropriateness of the current level of reserved hardwood rangelands nor advances the estimates of additional reserved lands as appropriate targets. Rather, the rankings highlight counties where actions might be undertaken to attain consistent levels of protection across the state. The acreages estimate the scale of the impact of such a strategy.

ALL HARDWOOD RANGELANDS

Figure 2a portrays the distribution of all hardwood rangeland cover types mapped by Pillsbury and others (1991). They cover 10,060,000 acres and occur in 47 counties. The area of hardwood rangelands by ownership is reported for the state as a whole in Appendix A and for each county in Appendix B. Figure 2b portrays the relative concentration of public ownership of hardwood rangelands by county; i.e., the proportion of county hardwood rangelands in public ownership compared to the proportion of hardwood rangelands in public ownership over the entire state.

In California, 1,887,000 acres of hardwood rangelands (18 percent of the state hardwood rangelands area) are publicly owned. The concentration of public ownership of hardwood rangelands is skewed. Only 16 counties have greater than expected levels of public ownership while 31 have lower than expected levels (Appendix Table C-1a). Most of the counties with greater than expected levels of public ownership of hardwood rangelands are found south of the Bay Area, including all Southern California counties with hardwood rangelands.

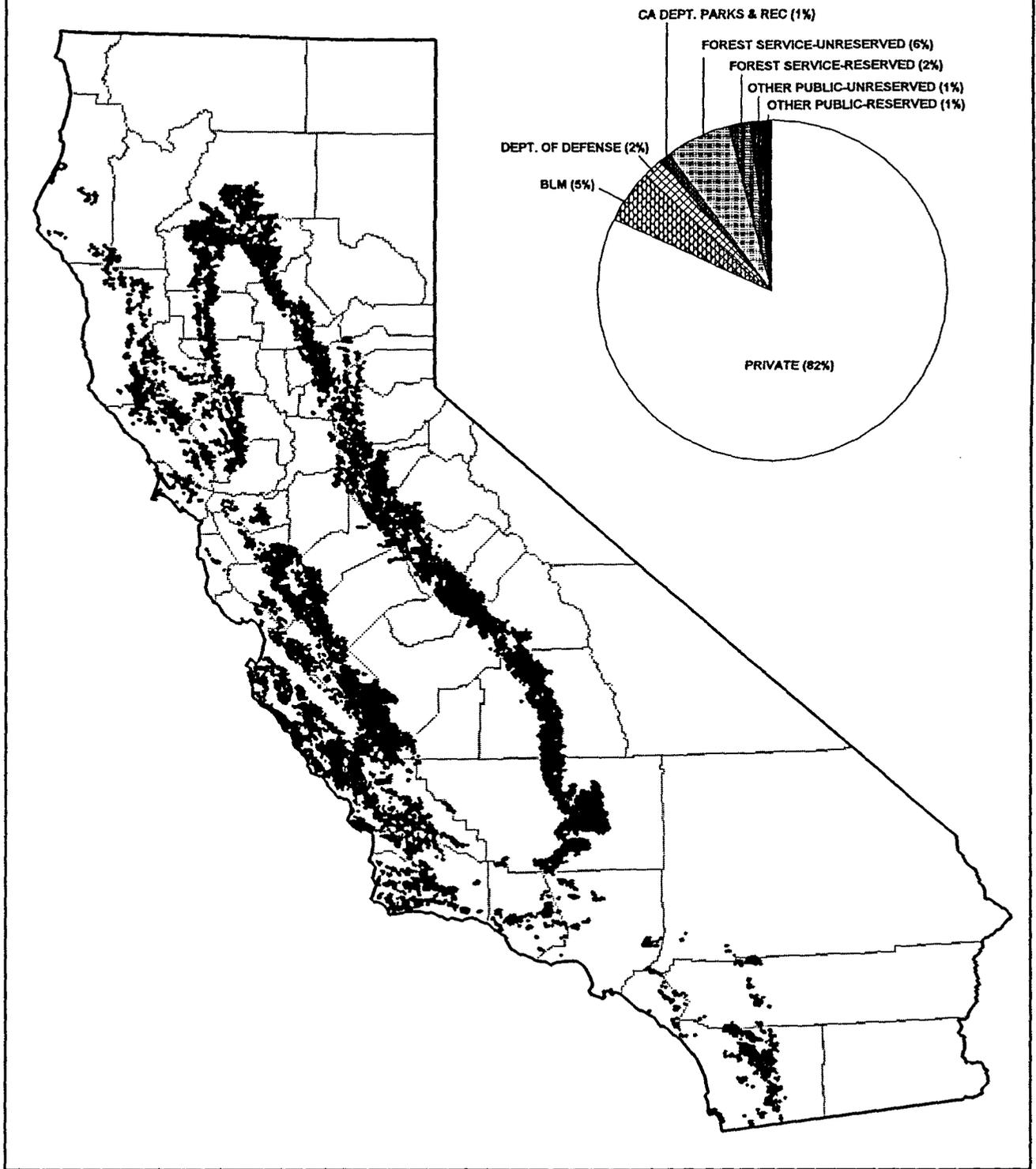
Figure 2c portrays the relative concentration of reserved hardwood rangelands by county; i.e., the proportion of county hardwood rangelands publicly owned and generally not managed for commodity production compared to the proportion of such land over the entire state. In California, 405,000 acres of hardwood rangelands (4 percent of the state hardwood rangelands area) are reserved. Only 12 counties have greater than expected levels of reserved hardwood rangelands while 35 have lower than expected levels (Appendix Table C-1b). Of these 35 counties, 13 have no reserved hardwood rangelands, at least as identified in the FRRAP GIS.

Half the 16 counties with greater than expected public ownership have lower than expected reserved hardwood rangelands (i.e., a large pool of potential reserved land but low actual reserve levels); Lake, Kern, Tuolumne, Santa Barbara, Fresno, Orange, Sierra, and Los Angeles. Counties with greater than expected levels of reserved lands but lower than expected levels of public land include Yuba, Stanislaus, Tehama, Santa Clara, and Contra Costa.

In order to reserve in each county a proportion of hardwood rangelands area equal to that of the state proportion, a total of 199,473 additional acres of hardwood rangelands would need to be designated as reserved in the 35 counties with less than expected levels of reserved hardwood rangelands (Appendix Table C-1c). Less than 2,000 acres per county would be required for 12 counties. However, in seven counties, more than 10,000 acres would require such a designation—Kern, San Benito, Mendocino, Fresno, Calaveras, Mariposa, and Shasta.

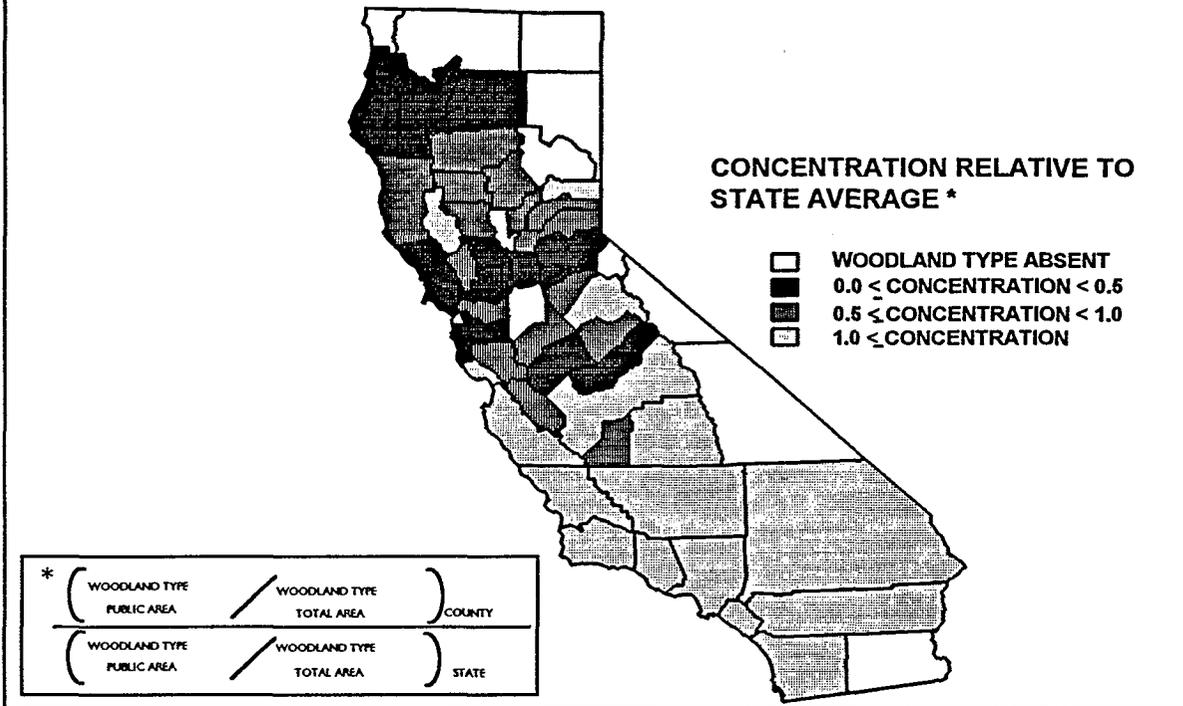
In order to attain the average state proportion of reserved hardwood rangelands in each county, a total of 12,524 acres of private land in nine counties would require redesignation (Appendix Table C-1d).

Figure 2a. Distribution of Hardwood Rangelands



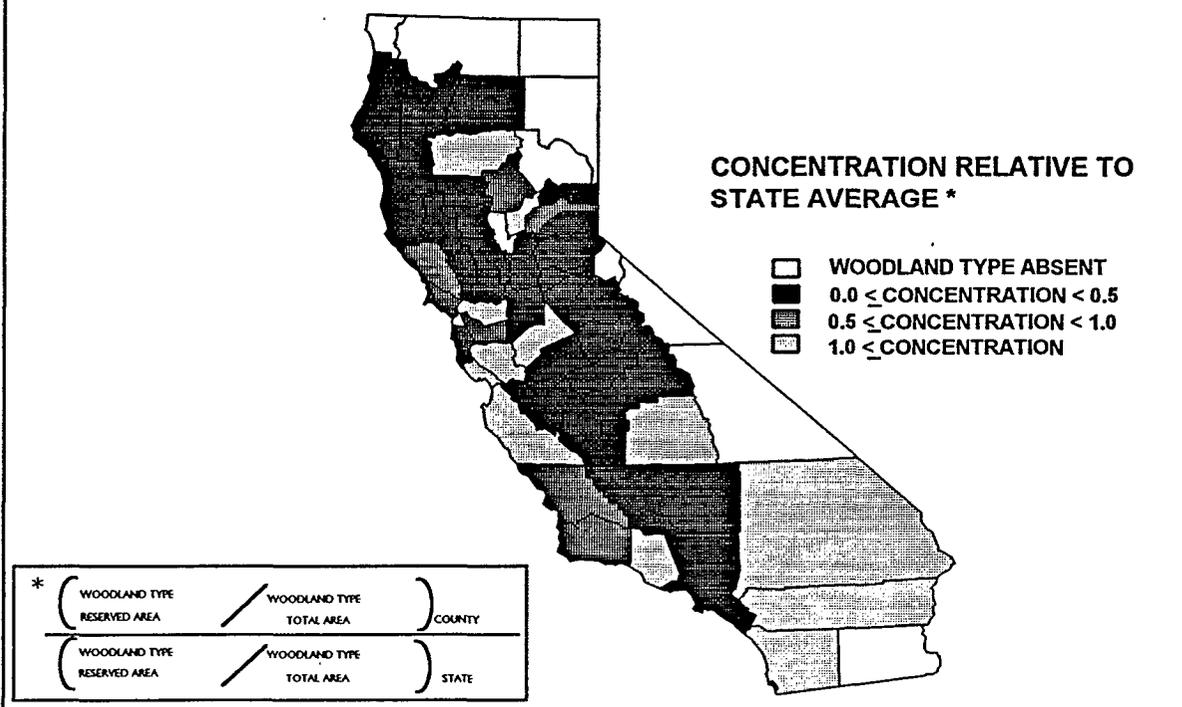
Source: Pillsbury, 1991, and FRRAP Information and Analysis System

Figure 2b. Concentration of Public Ownership: All Hardwood Rangelands



Source: Pillsbury, 1991, and FRRAP Information and Analysis System

Figure 2c. Concentration of Reserved Lands: All Hardwood Rangelands



Source: Pillsbury, 1991, and FRRAP Information and Analysis System

BLUE OAK WOODLAND

Figure 3a portrays the distribution of blue oak woodland mapped by Pillsbury and others (1991). It covers 3,259,000 acres and occurs in 33 counties. The area of blue oak woodland by ownership is reported for the state as a whole in Appendix A and for each county in Appendix B.

Figure 3b portrays the relative concentration of public ownership of blue oak woodland by county; i.e., the proportion of county blue oak woodland in public ownership compared to the proportion of blue oak woodland in public ownership over the entire state. In California, 589,000 acres of blue oak woodland (18 percent of the state's blue oak woodland area) are publicly owned. Of the 33 counties with blue oak woodlands, three counties have none under public ownership (San Joaquin, Alameda, and El Dorado).

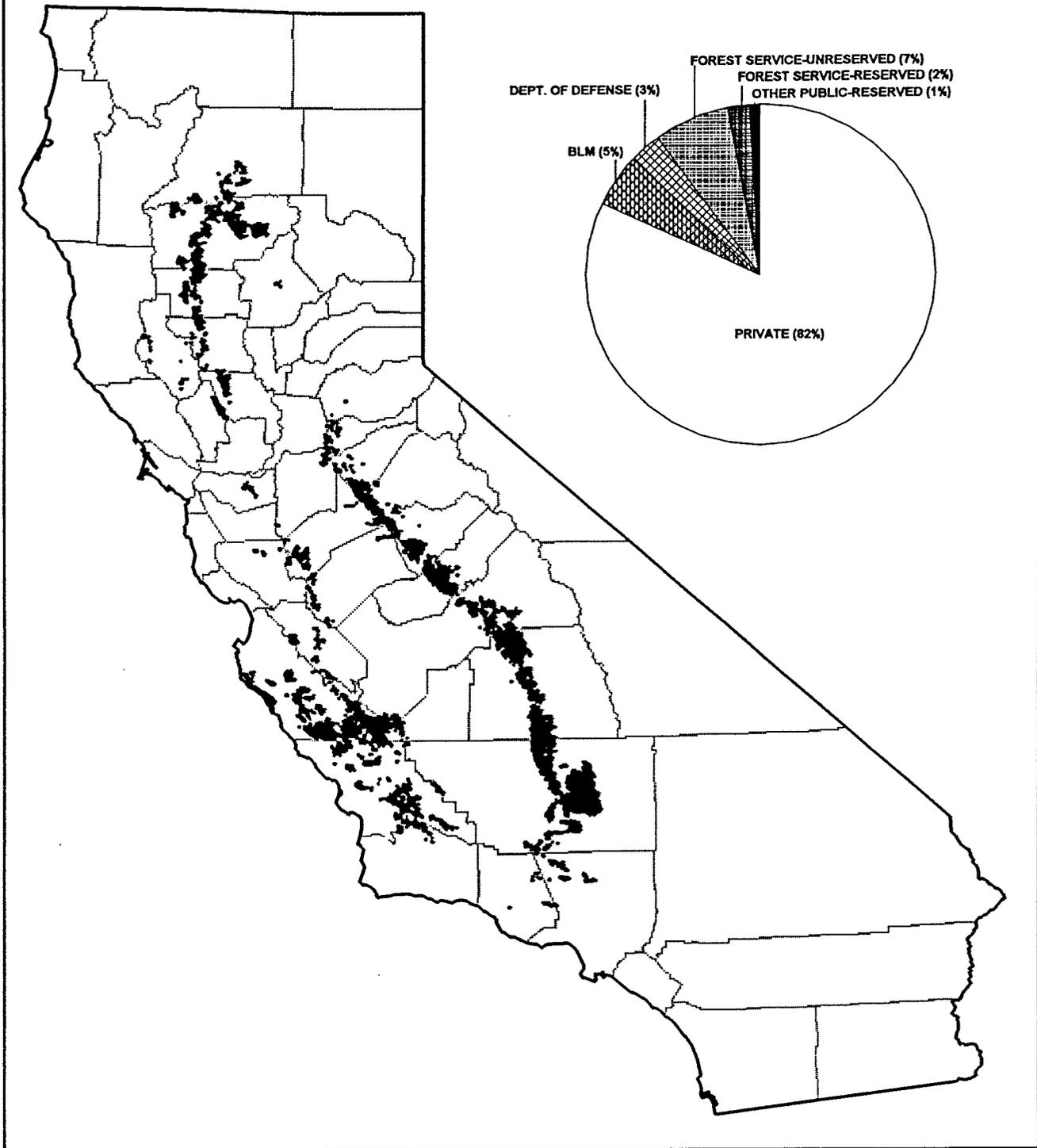
The concentration of public ownership of blue oak woodland is skewed. Only 10 counties have greater than expected levels of public ownership, while 23 have lower than expected levels (Appendix Table C-2a). Most of the counties with greater than expected levels of public ownership of blue oak woodland are found along the Central and South Coasts and in the Southern Sierra. Figure 3c portrays the relative concentration of reserved blue oak woodland by county; i.e., the proportion of county blue oak woodland publicly owned and not generally managed for commodity production compared to the proportion of such land over the entire state.

In California, 102,000 acres of blue oak woodland (3 percent of the state blue oak woodland) are reserved. Only eight counties have greater than expected levels of reserved blue oak woodland while 25 have lower than expected levels (Appendix Table C-2b). Of these 25 counties, 15 have no reserved blue oak woodland. Greater than expected levels of reserved blue oak woodland are along the Central Coast and the Diablo Range.

Counties with greater than expected public ownership, but lower than expected reserved blue oak woodland (i.e., a large pool of potential reserve land but low actual reserve levels) include Mendocino, Riverside, Kern, Santa Barbara, Fresno, and Los Angeles. Counties with greater than expected levels of reserved lands but lower than expected levels of public land include Stanislaus, Tehama, Santa Clara, and Contra Costa.

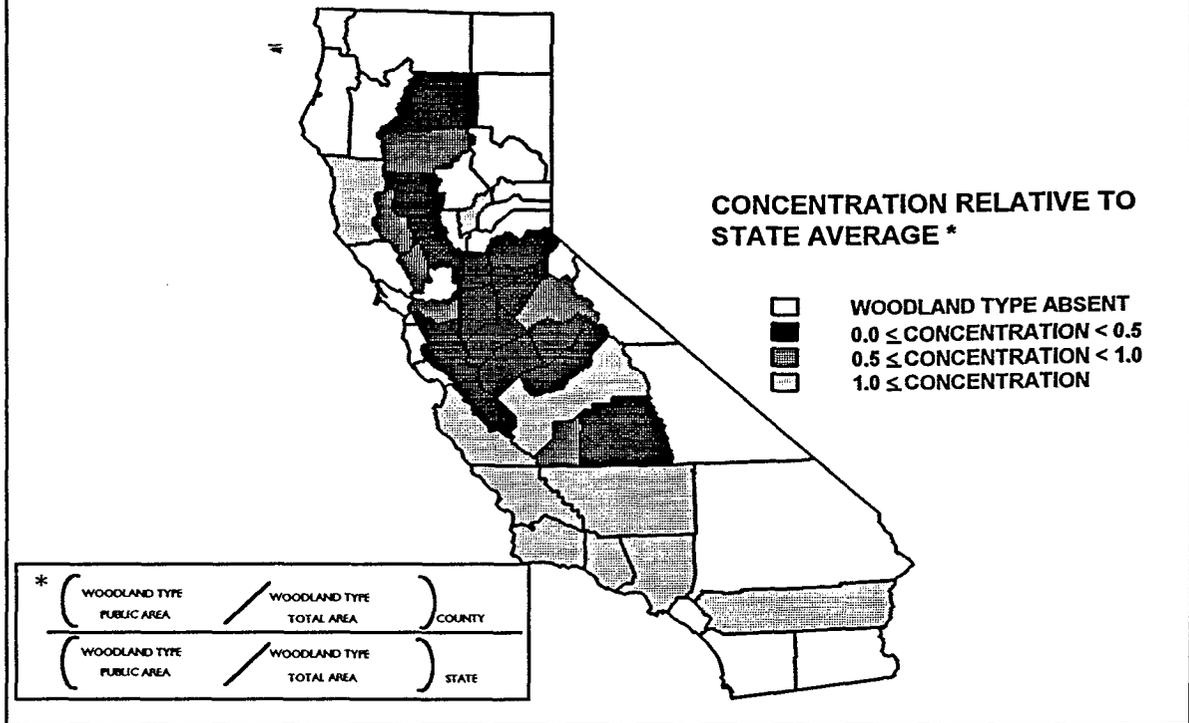
In order to reserve in each county a proportion of the blue oak woodland equal to that of reserved hardwood rangelands in the state as a whole, a total of 76,713 acres of blue oak woodland would need to be designated as reserved in 25 counties (Appendix Table C-2c). Less than 2,000 acres per county would be required for 15 counties. However, in three counties, more than 5,000 acres would require such a designation—Fresno, Tulare, and Kern. This goal could be achieved largely through changes in public land management. Only 8,638 acres of private land in 10 counties would require redesignation (Appendix Table C-2d).

Figure 3a. Distribution of Blue Oak Woodland



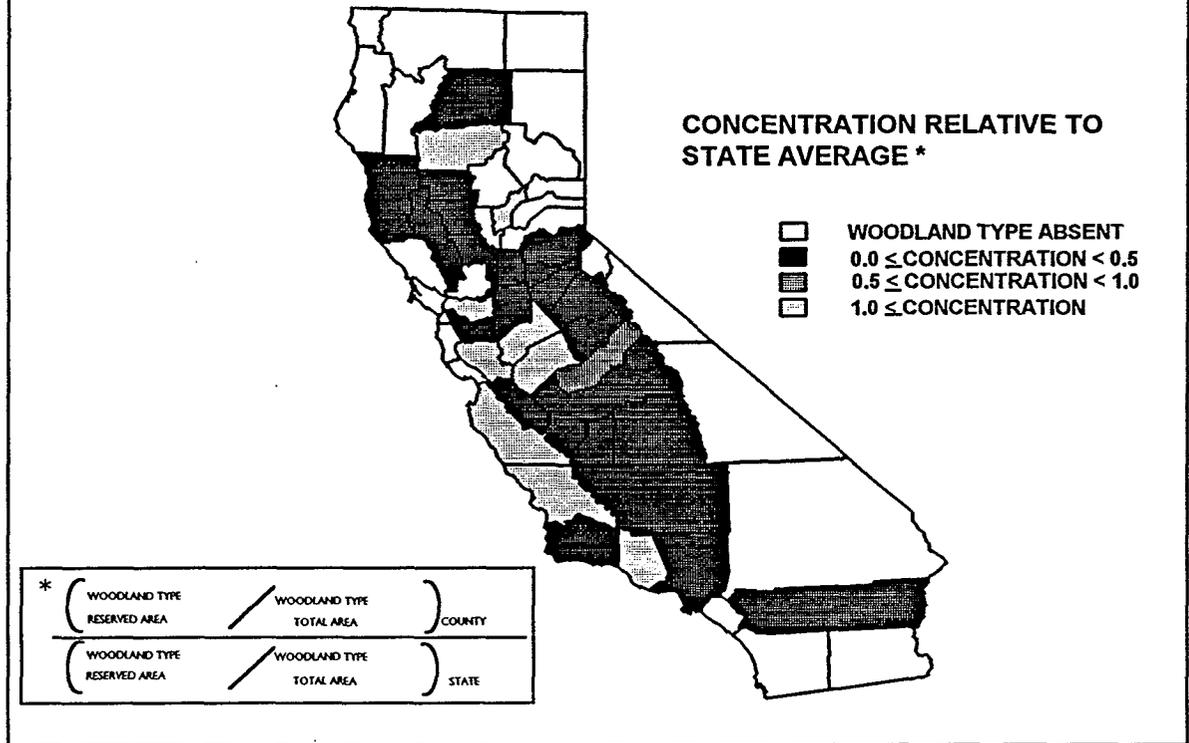
Source: Pillsbury, 1991, and FRRAP Information and Analysis System

Figure 3b. Concentration of Public Ownership: Blue Oak Woodland



Source: Pillsbury, 1991, and FRRAP Information and Analysis System

Figure 3c. Concentration of Reserved Lands: Blue Oak Woodland



Source: Pillsbury, 1991, and FRRAP Information and Analysis System

BLUE OAK-FOOTHILL PINE WOODLAND

Figure 4a portrays the distribution of blue oak-foothill pine woodland mapped by Pillsbury and others (1991). It covers 2,313,000 acres and occurs in 32 counties. The area of blue oak-foothill pine woodland by ownership is reported for the state as a whole in Appendix A and for each county in Appendix B.

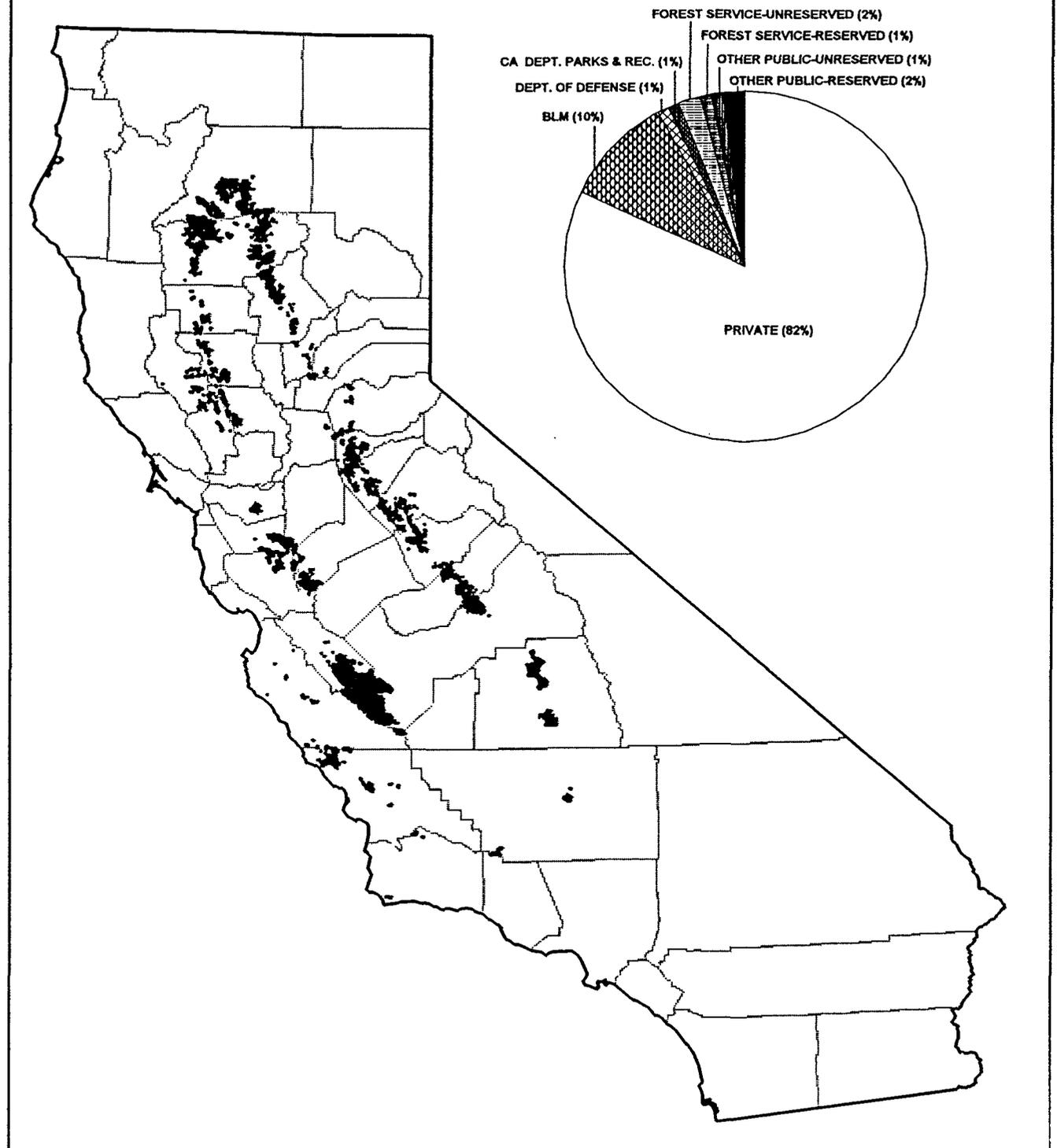
Figure 4b portrays the relative concentration of public ownership of blue oak-foothill pine woodland by county; i.e., the proportion of county blue oak-foothill pine woodland in public ownership compared to the proportion of blue oak-foothill pine woodland in public ownership over the entire state. In California, 412,000 acres of blue oak-foothill pine woodland (18 percent of the state blue oak-foothill pine woodland) are publicly owned. Of the 32 counties with blue oak-foothill pine woodland, three counties have none under public ownership (Placer, San Joaquin, and Sacramento).

The concentration of public ownership in blue oak-foothill pine woodland is skewed. Only 13 counties have greater than expected levels of public ownership, while 19 have lower than expected levels (Appendix Table C-3a). Most of the counties with greater than expected levels of public ownership of blue oak-foothill pine woodland are found in the San Joaquin, Southern Sierra, Northern Interior, and Coast Ranges. Figure 4c portrays the relative concentration of reserved blue oak-foothill pine woodland by county; i.e., the proportion of county blue oak-foothill pine woodland publicly owned and not generally managed for commodity production compared to the proportion of such land over the entire state.

In California, 77,000 acres of blue oak-foothill pine woodland (3 percent of the state blue oak-foothill pine woodland) are reserved. Only six counties have greater than expected levels of reserved blue oak-foothill pine woodland while 26 have lower than expected levels (Appendix Table C-3b). Of these 26 counties 19 (60 percent of the counties with this woodland type) have no reserved blue oak-foothill pine woodland. The counties with greater than expected levels of reserved blue oak-foothill pine woodland are scattered throughout the state.

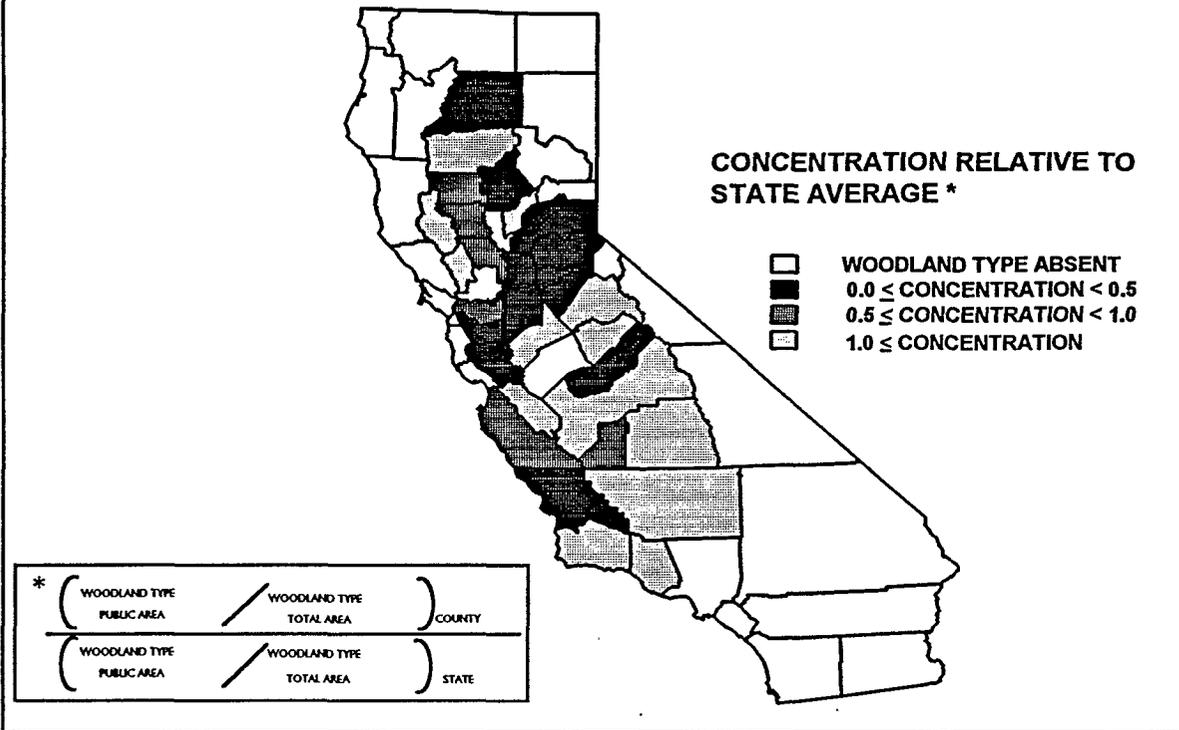
In order to reserve in each county a proportion of the blue oak-foothill pine woodland equal to that of reserved hardwood rangelands in the state as a whole, a total of 68,233 acres of blue oak-foothill pine woodland would need to be designated as reserved in 26 counties (Appendix Table C-3c). Less than 2,000 acres per county would be required for 13 counties. However, in three counties, more than 5,000 acres would require such a designation—Fresno, San Benito, and Shasta. This goal could be achieved largely through changes in public land management. Only 8,320 acres of private land in 8 counties would require redesignation (Appendix Table C-3d).

Figure 4a. Distribution of Blue Oak-Foothill Pine Woodland



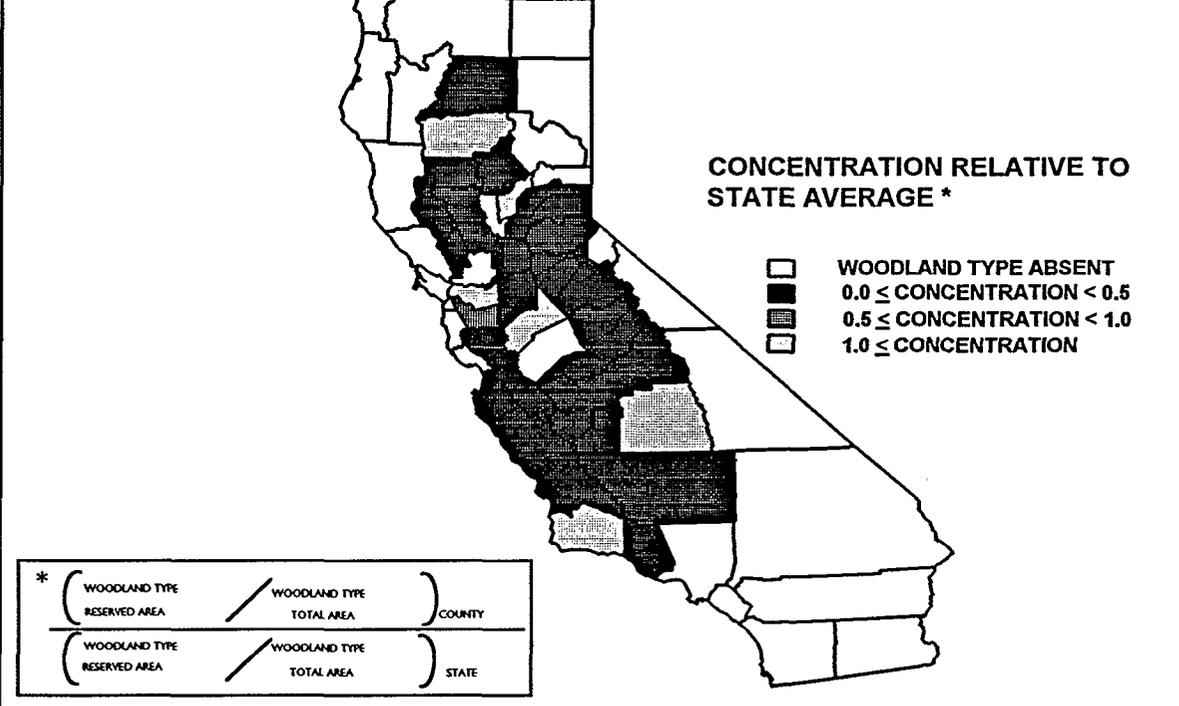
Source: Pillsbury, 1991, and FRRAP Information and Analysis System

Figure 4b. Concentration of Public Ownership: Blue Oak-Foothill Pine Woodland



Source: Pillsbury, 1991, and FRRAP Information and Analysis System

Figure 4c. Concentration of Reserved Lands: Blue Oak-Foothill Pine Woodland



Source: Pillsbury, 1991, and FRRAP Information and Analysis System

VALLEY OAK WOODLAND

Figure 5a portrays the distribution of valley oak woodland mapped by Pillsbury and others (1991). It covers only 251,000 acres and occurs in 17 counties. The area of valley oak woodland by ownership is reported for the state as a whole in Appendix A and for each county in Appendix B.

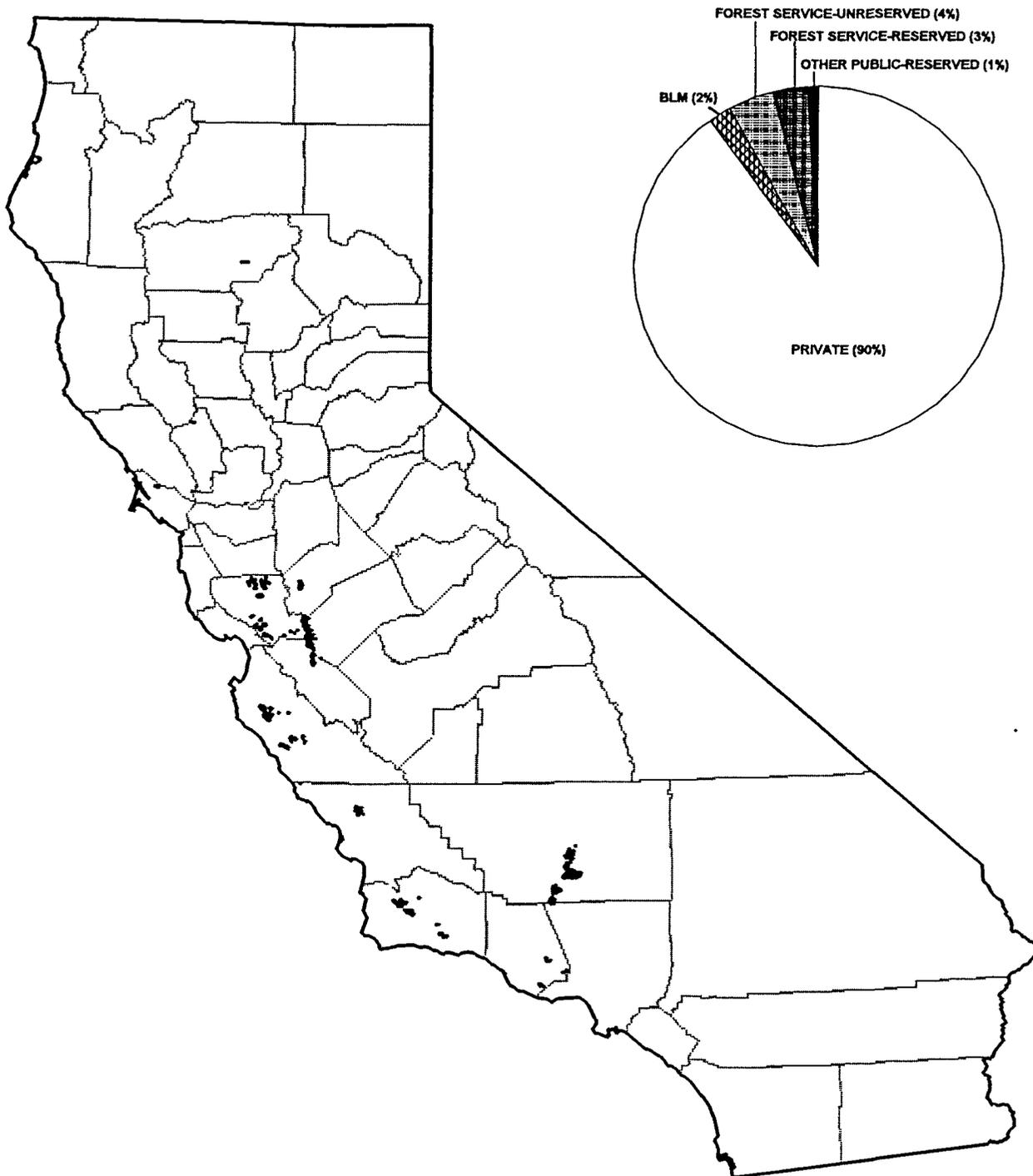
Figure 5b portrays the relative concentration of public ownership of valley oak woodland by county; i.e., the proportion of county valley oak woodland in public ownership compared to the proportion of valley oak woodland in public ownership over the entire state. Public ownership of valley oak woodland is relatively low. Only 28,000 acres of valley oak woodland (10 percent of the state valley oak woodland) are publicly owned. Of the 17 counties with valley oak woodlands, eight counties (nearly half) have none under public ownership.

The concentration of public ownership in valley oak woodland is highly skewed. Only one county (Monterey) has a greater than expected level of public ownership in valley oak woodland (Appendix Table C-4a). Figure 5c portrays the relative concentration of reserved valley oak woodland by county; i.e., the proportion of county valley oak woodland publicly owned and not generally managed for commodity production compared to the proportion of such land over the entire state.

Valley oak woodland is better protected by reserves than most woodland types; 12,000 acres of valley oak woodland (5 percent of the state valley oak woodland) are reserved. But this protection is highly concentrated. Only two counties (Monterey and Santa Clara) have greater than expected levels of reserved valley oak woodland, while 15 have lower than expected levels (Appendix Table C-4b). Of these 15 counties, 11 (65 percent of the counties with this woodland type) have no reserved valley oak woodland.

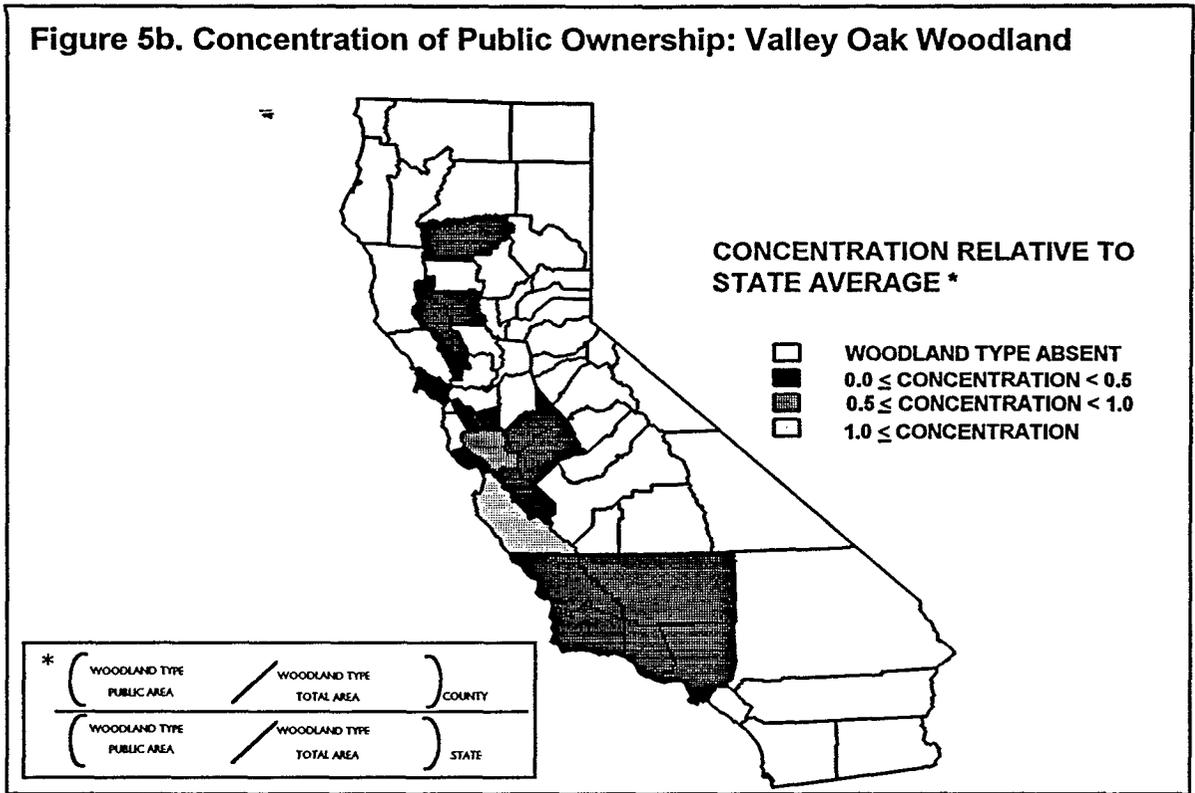
In order to reserve in each county a proportion of the valley oak woodland area equal to that of reserved hardwood rangelands in the state as a whole, a total of 5,597 acres of valley oak woodland would need to be designated as reserved in 15 counties (Appendix Table C-4c). Less than 300 acres per county would be required for 10 counties. A maximum of 2,610 acres would be required in Kern County. While this goal could be achieved largely through changes in public land management, private land is proportionally more important than in previous hardwood rangeland cover types. A total of 1,646 acres of private land in 13 counties would require redesignation (Appendix Table C-4d).

Figure 5a. Distribution of Valley Oak Woodland



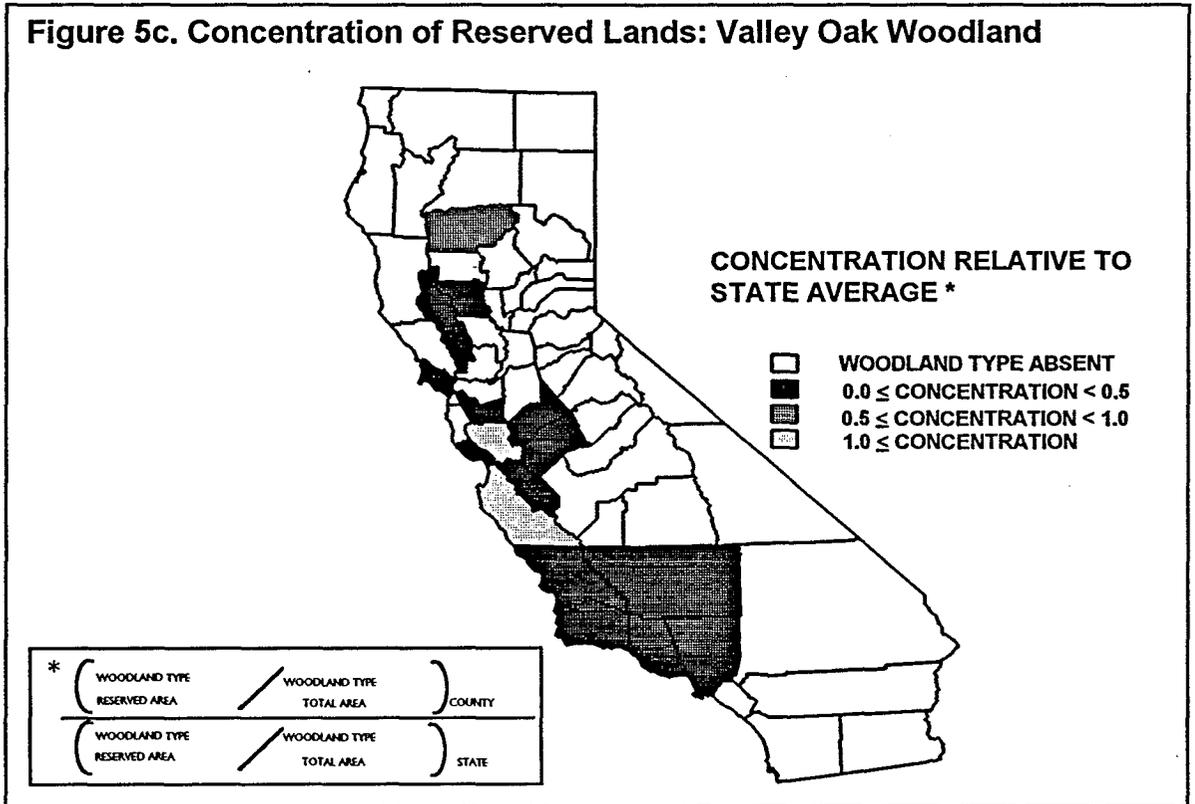
Source: Pillsbury, 1991, and FRRAP Information and Analysis System

Figure 5b. Concentration of Public Ownership: Valley Oak Woodland



Source: Pillsbury, 1991, and FRRAP Information and Analysis System

Figure 5c. Concentration of Reserved Lands: Valley Oak Woodland



Source: Pillsbury, 1991, and FRRAP Information and Analysis System

COASTAL OAK WOODLAND

Figure 6a portrays the distribution of coastal oak woodland mapped by Pillsbury and others (1991). It covers 2,158,000 acres and occurs in 27 counties. The area of coastal oak woodland by ownership is reported for the state as a whole in Appendix A and for each county in Appendix B. Figure 6b portrays the relative concentration of public ownership of coastal oak woodland by county; i.e., the proportion of county coastal oak woodland in public ownership compared to the proportion of coastal oak woodland in public ownership over the entire state.

Relatively more coastal oak woodland is in public ownership than other hardwood rangeland cover types; 467,000 acres of coastal oak woodland (22 percent of the state coastal oak woodland) are publicly owned. Of the 27 counties with coastal oak woodland, four counties have none under public ownership (Humboldt, San Bernardino, Yolo, and Fresno).

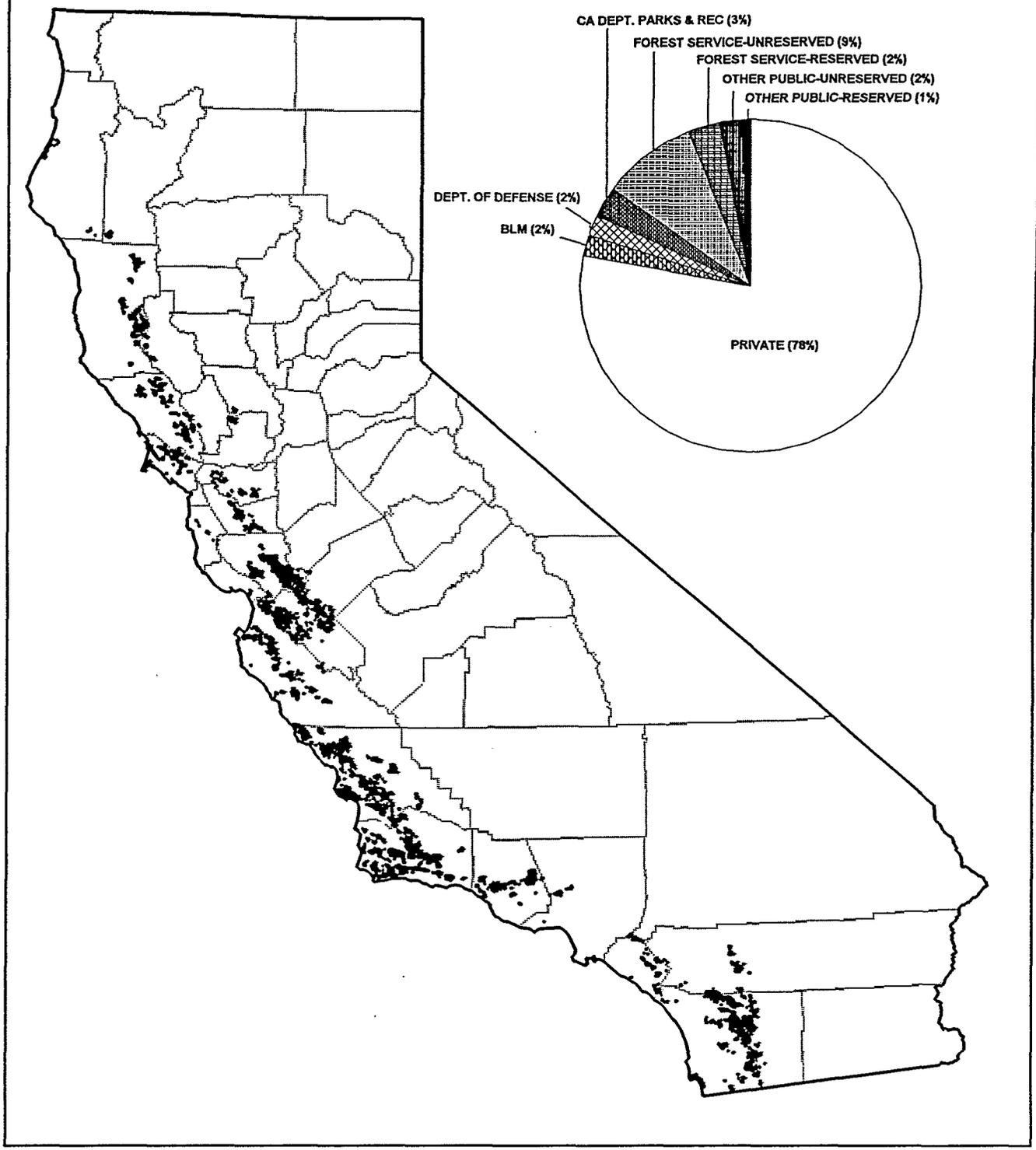
The concentration of public ownership in coastal oak woodland is skewed. Only seven counties have greater than expected levels of public ownership, while 20 have lower than expected levels (Appendix Table C-5a). Most of the counties with greater than expected levels of public ownership of coastal oak woodland are found on the Central and Southern Coasts. Figure 6c portrays the relative concentration of reserved coastal oak woodland by county; i.e., the proportion of county coastal oak woodland publicly owned and not managed generally for commodity production compared to the proportion of such land over the entire state.

Coastal oak woodland has the highest rate of reserved ownership relative to other hardwood rangeland cover types: 139,164 acres of coastal oak woodland (6 percent of the state coastal oak woodland area) are reserved. But the reserved status is quite concentrated. Only six counties have greater than expected levels of reserved coastal oak woodland, while 21 have lower than expected levels (Appendix Table C-5b). Of these 21 counties, 10 (nearly half) have no reserved coastal oak woodland. The counties with greater than expected levels of reserved coastal oak woodland are in the Diablo Range and on the Southern Coast.

Counties with greater than expected public ownership but lower than expected reserved coastal oak woodland (i.e., a large pool of potential reserve land but low actual reserve levels) include Santa Barbara, Monterey, and Lake. Counties with greater than expected levels of reserved lands but lower than expected levels of public land include Contra Costa and Santa Clara.

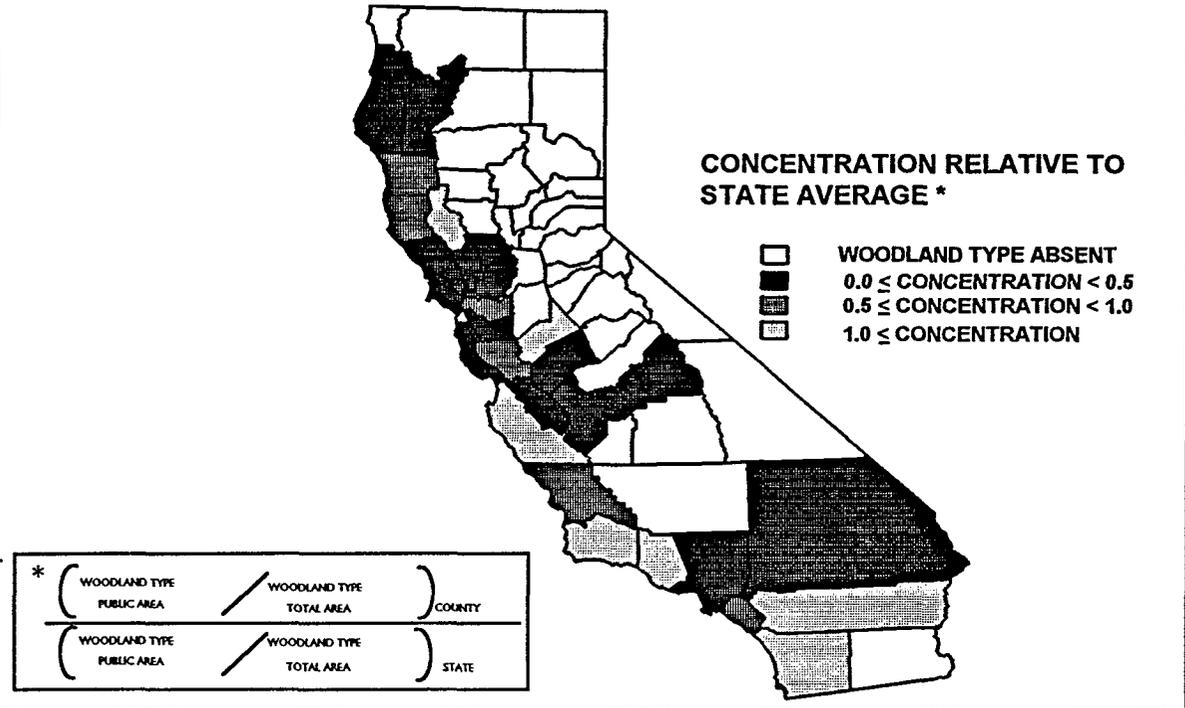
In order to reserve in each county a proportion of the coastal oak woodland equal to that of reserved hardwood rangelands in the state as a whole, a total of 20,713 additional acres of coastal oak woodland would need to be designated as reserved in 18 counties (Appendix Table C-5c). Less than 2,000 acres per county would be required for 15 counties, while in one county (San Benito) more than 5,000 acres would require such a designation. This goal could be achieved largely through changes in public land management, but 4,241 acres of private land in 12 counties would require redesignation (Appendix Table C-5d).

Figure 6a. Distribution of Coastal Oak Woodland



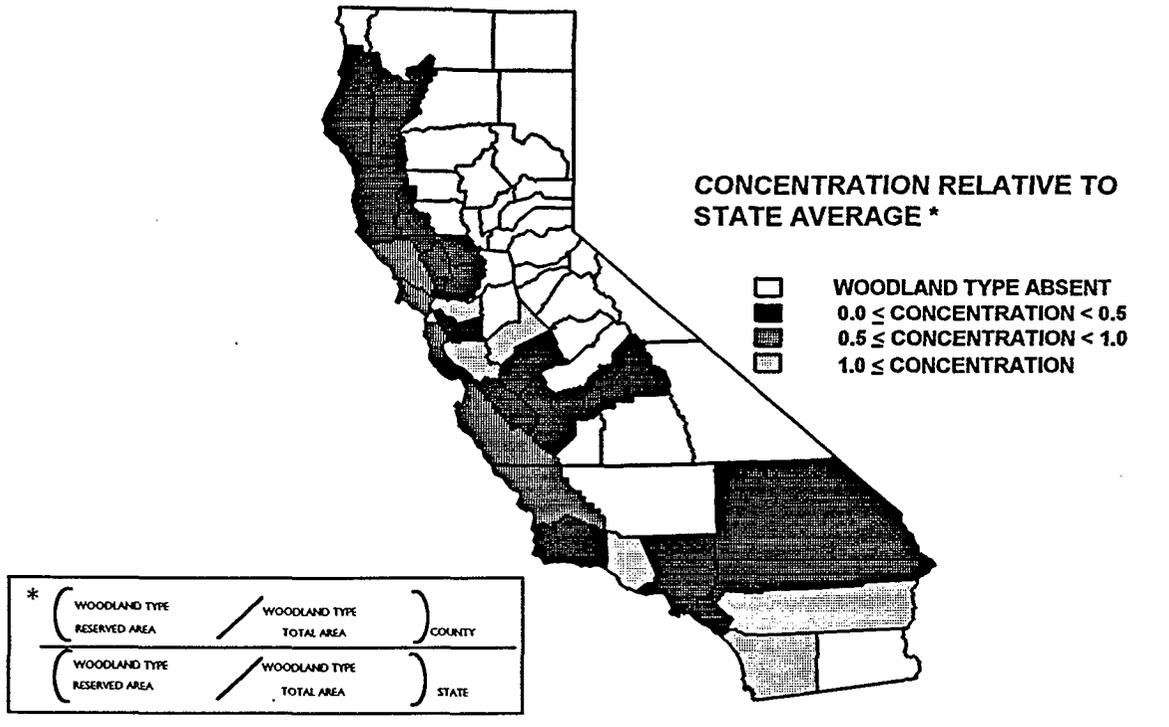
Source: Pillsbury, 1991, and FRRAP Information and Analysis System

Figure 6b. Concentration of Public Ownership: Coastal Oak Woodland



Source: Pillsbury, 1991, and FRRAP Information and Analysis System

Figure 6c. Concentration of Reserved Lands: Coastal Oak Woodland



Source: Pillsbury, 1991, and FRRAP Information and Analysis System

INTERIOR AND/OR CANYON LIVE OAK WOODLAND

Figure 7a portrays the distribution of interior and/or canyon live oak woodland mapped by Pillsbury and others (1991). It covers 1,671,000 acres and occurs in 33 counties. The area of interior and/or canyon live oak woodland by ownership is reported for the state as a whole in Appendix A and for each county in Appendix B.

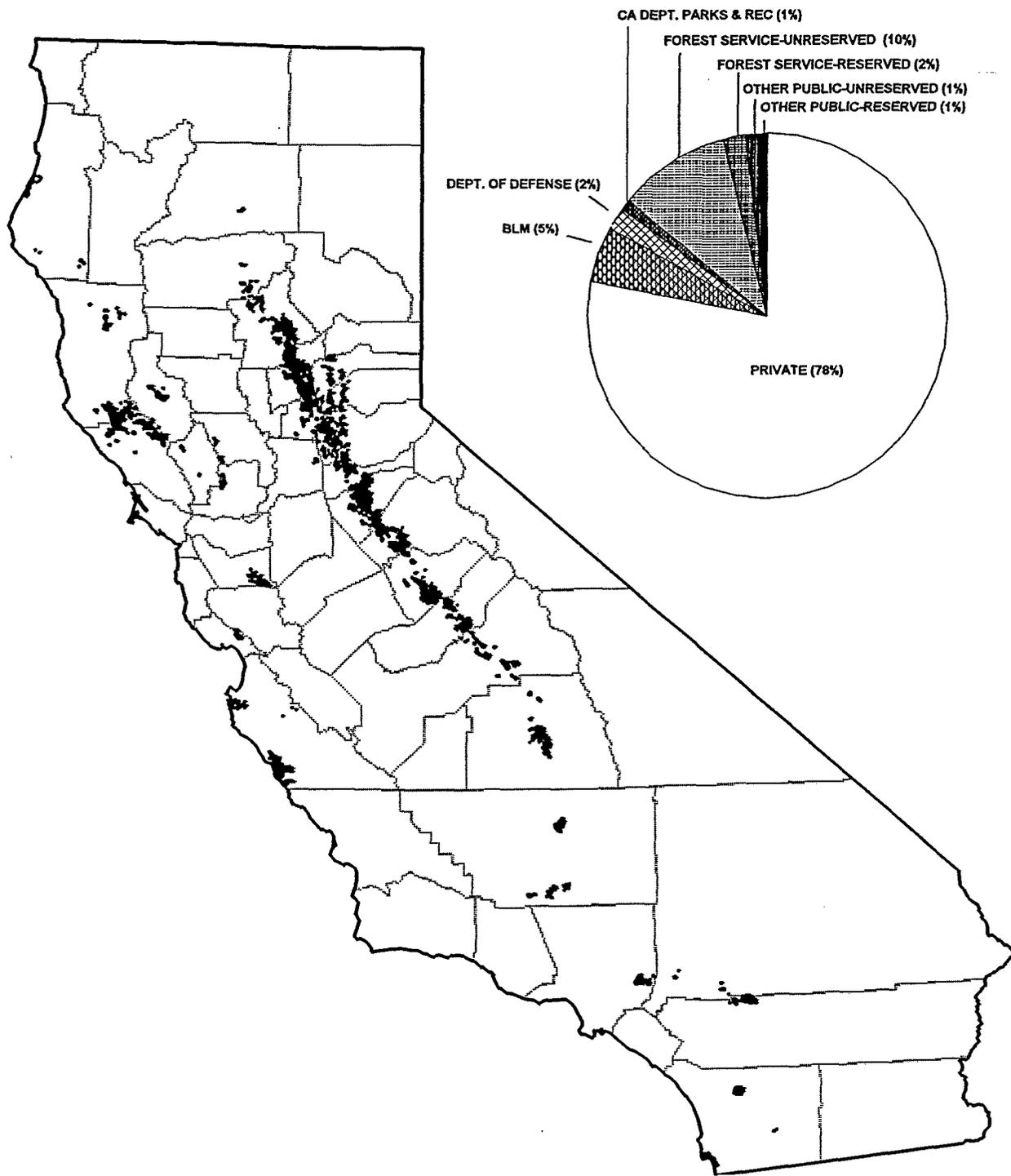
Figure 7b portrays the relative concentration of public ownership of interior and/or canyon live oak woodland by county; i.e., the proportion of county interior and/or canyon live oak woodland in public ownership compared to the proportion of interior and/or canyon live oak woodland in public ownership over the entire state. A large proportion of interior and/or canyon live oak woodland is publicly owned; 359,000 acres of interior and/or canyon live oak woodland (22 percent of the state interior and/or canyon live oak woodland area) are publicly owned. Of the 33 counties with interior and/or canyon live oak woodland, four counties have none under public ownership (Shasta, Humboldt, Solano, and Santa Clara).

The concentration of public ownership of interior and/or canyon live oak woodland is skewed. Only 12 counties have greater than expected levels of public ownership while 21 have lower than expected levels (Appendix Table C-6a). Most of the counties with greater than expected levels of public ownership of interior and/or canyon live oak woodland are in the southern half of the state. Figure 7c portrays the relative concentration of reserved interior and/or canyon live oak woodland by county; i.e., the proportion of county interior and/or canyon live oak woodland publicly owned and not generally managed for commodity production compared to the proportion of such land over the entire state.

Interior and/or canyon live oak woodland has a moderate rate of reserved ownership relative to other hardwood rangeland cover type—71,000 acres of interior and/or canyon live oak woodland (4 percent of the state interior and/or canyon live oak woodland area) are reserved. Eleven counties have greater than expected levels of reserved interior and/or canyon live oak woodland, while 22 have lower than expected levels (Appendix Table C-6b). Of these 22 counties, 16 (more than three-quarters) have no reserved interior and/or canyon live oak woodland. The counties with greater than expected levels of reserved interior and/or canyon live oak woodland are in the Northern Sacramento Valley, Central Coast, Southern Sierra, and in Southern California.

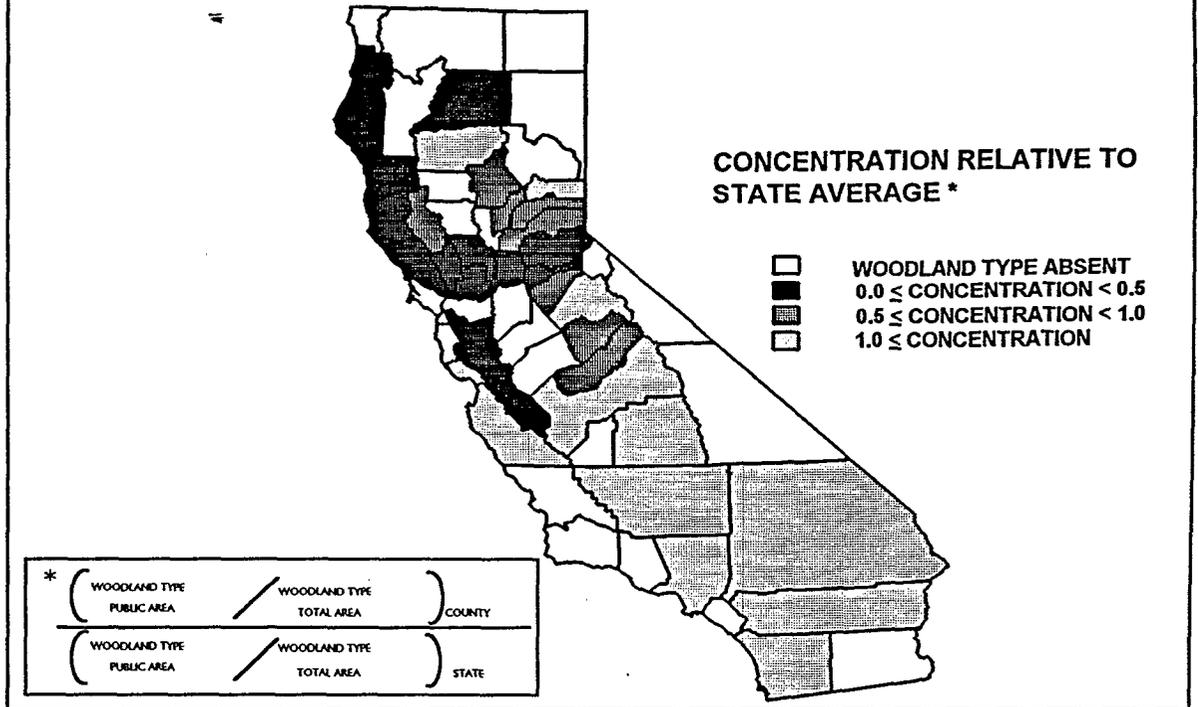
Counties with greater than expected public ownership but lower than expected reserved interior and/or canyon live oak woodland (i.e., a large pool of potential reserve land but low actual reserve levels), include Tuolumne, Kern, Sierra, and Los Angeles. Counties with greater than expected levels of reserved lands but lower than expected levels of public land (i.e., a strong emphasis on reserving public lands) include Butte, Yuba, and Alameda.

Figure 7a. Distribution of Interior and/or Canyon Live Oak Woodland



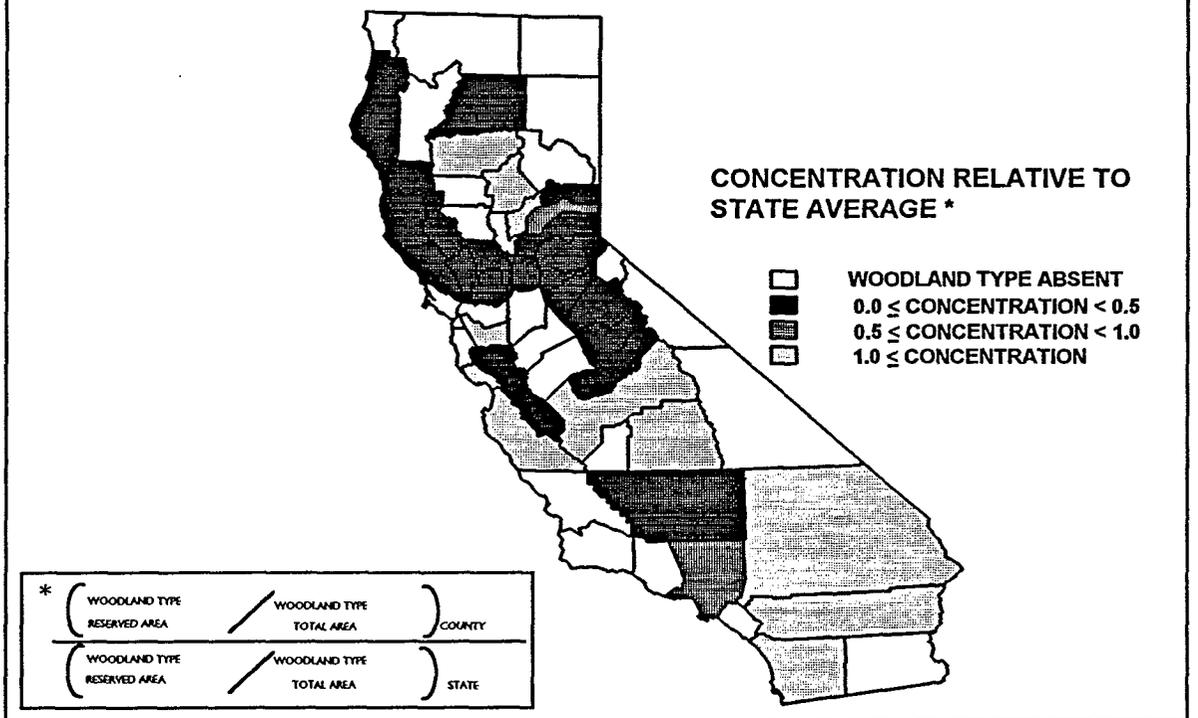
Source: Pillsbury, 1991, and FRRAP Information and Analysis System

Figure 7b. Concentration of Public Ownership: Interior and/or Canyon Live Oak Woodland



Source: Pillsbury, 1991, and FRRAP Information and Analysis System

Figure 7c. Concentration of Reserved Lands: Interior and/or Canyon Live Oak Woodland



Source: Pillsbury, 1991, and FRRAP Information and Analysis System

In order to reserve in each county a proportion of the interior and/or canyon live oak woodland equal to that of reserved hardwood rangelands in the state as a whole, a total of 39,285 additional acres of interior and/or canyon live oak woodland would need to be designated as reserved in 22 counties (Appendix Table C-6c). Less than 2,000 acres per county would be required for 13 counties. More than 4,000 acres would require such a designation in Calaveras, El Dorado, and Mendocino. Very little private land would be needed to achieve this goal—only 1,481 acres of private land in eight counties would require redesignation (Appendix Table C-6d).

MONTANE HARDWOOD MIX

Figure 8a portrays the distribution of montane hardwood mix as mapped by Pillsbury and others (1991). It covers 409,000 acres and occurs in 16 counties. The area of montane hardwood mix by ownership is reported for the state as a whole in Appendix A and for each county in Appendix B. As noted earlier, this represents a partial mapping of the species group and should not be used for policy development.

Figure 8b portrays the relative concentration of public ownership of montane hardwood mix by county; i.e., the proportion of county montane hardwood mix in public ownership compared to the proportion of montane hardwood mix in public ownership over the entire state. In California, 31,000 acres of montane hardwood mix (7 percent of the state montane hardwood mix) are publicly owned. Of the 16 counties with montane hardwood mix, four counties have none under public ownership (San Mateo, Santa Clara, Yolo, and El Dorado).

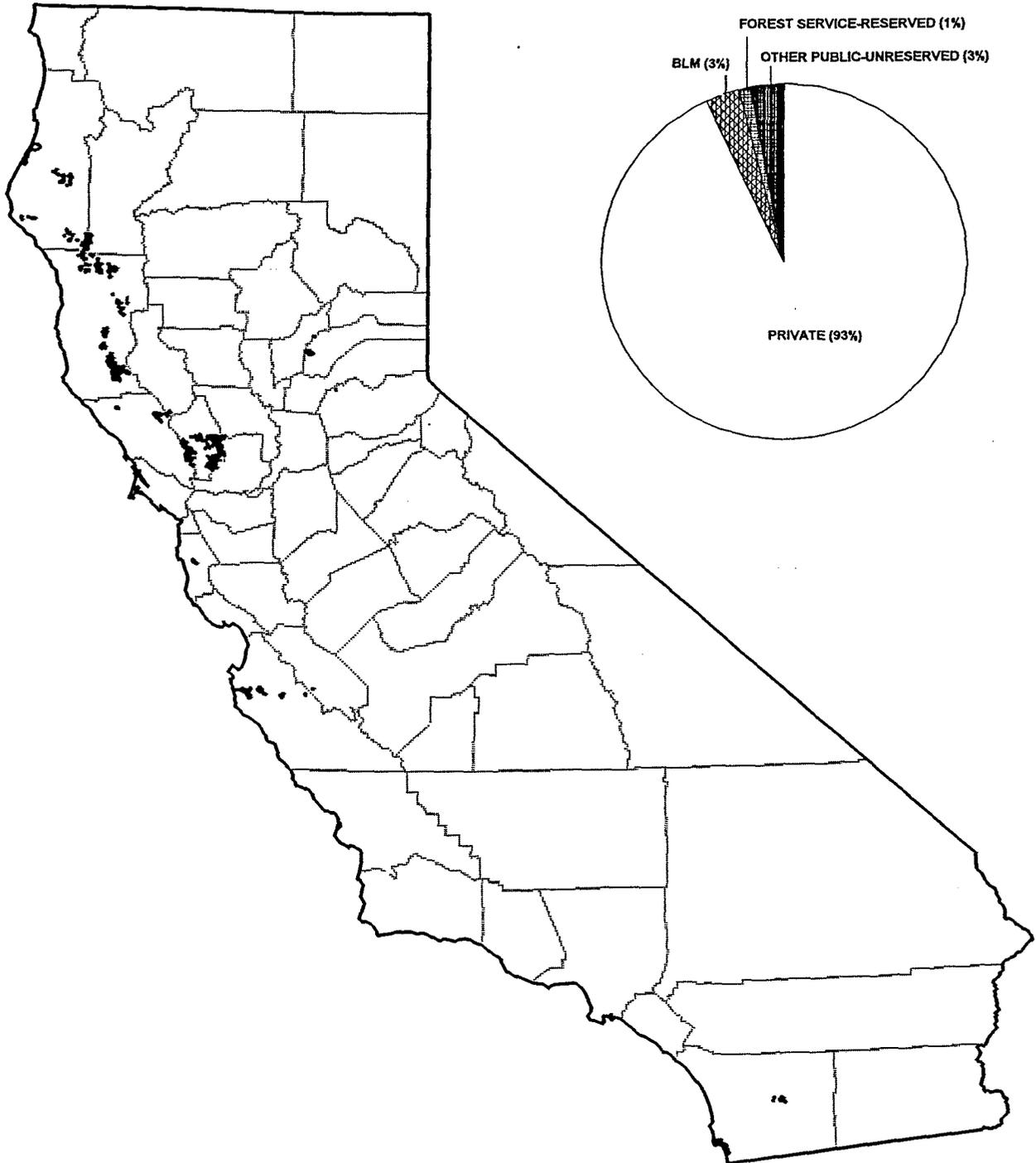
The concentration of public ownership of montane hardwood mix is skewed. Only five counties have greater than expected levels of public ownership in montane hardwood mix, while 11 have lower than expected levels (Appendix Table C-7). Figure 8c portrays the relative concentration of reserved montane hardwood mix by county; i.e., the proportion of county montane hardwood mix publicly owned and not generally managed for commodity production compared to the proportion of such land over the entire state.

In California, only 4,000 acres of montane hardwood mix (less than 1 percent of the state montane hardwood mix) are reserved. Only two counties (Sonoma and Monterey) have greater than expected levels of reserved montane hardwood mix, while 14 have lower than expected levels (Appendix Table C-7b). Of these 14 counties, 11 have no reserved montane hardwood mix.

Counties with greater than expected public ownership but lower than expected reserved montane hardwood mix (i.e., a large pool of potential reserve land but low actual reserve levels) include Solano, Mendocino, Yuba, and Lake. Only Sonoma has a greater than expected level of reserved montane hardwood mix but a lower than expected level of public land.

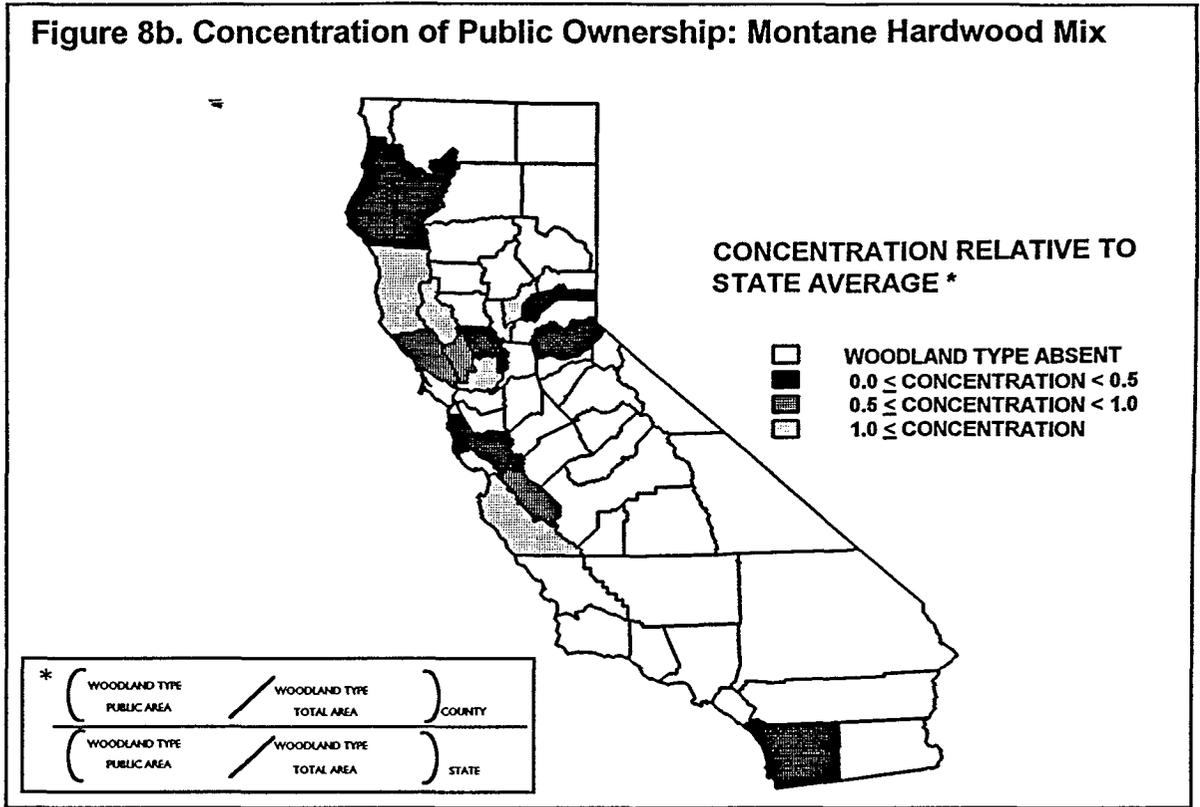
In order to reserve in each county a proportion of the montane hardwood mix equal to that of reserved hardwood rangelands in the state as a whole, a total of 14,315 additional acres would need to be designated as reserved in the 14 counties with less than expected levels of reserved montane hardwood mix (Appendix Table C-7c). Less than 1,000 acres per county would be required for 10 counties. However, in two counties (Mendocino and Napa), more than 3,000 acres would require such a designation. In order to attain the state average proportion of reserved hardwood rangelands in each county, only 2,168 acres of private land would require redesignation (Appendix Table C-7d) with most of that (1,375 acres) in Humboldt County.

Figure 8a. Distribution of Montane Hardwood Mix



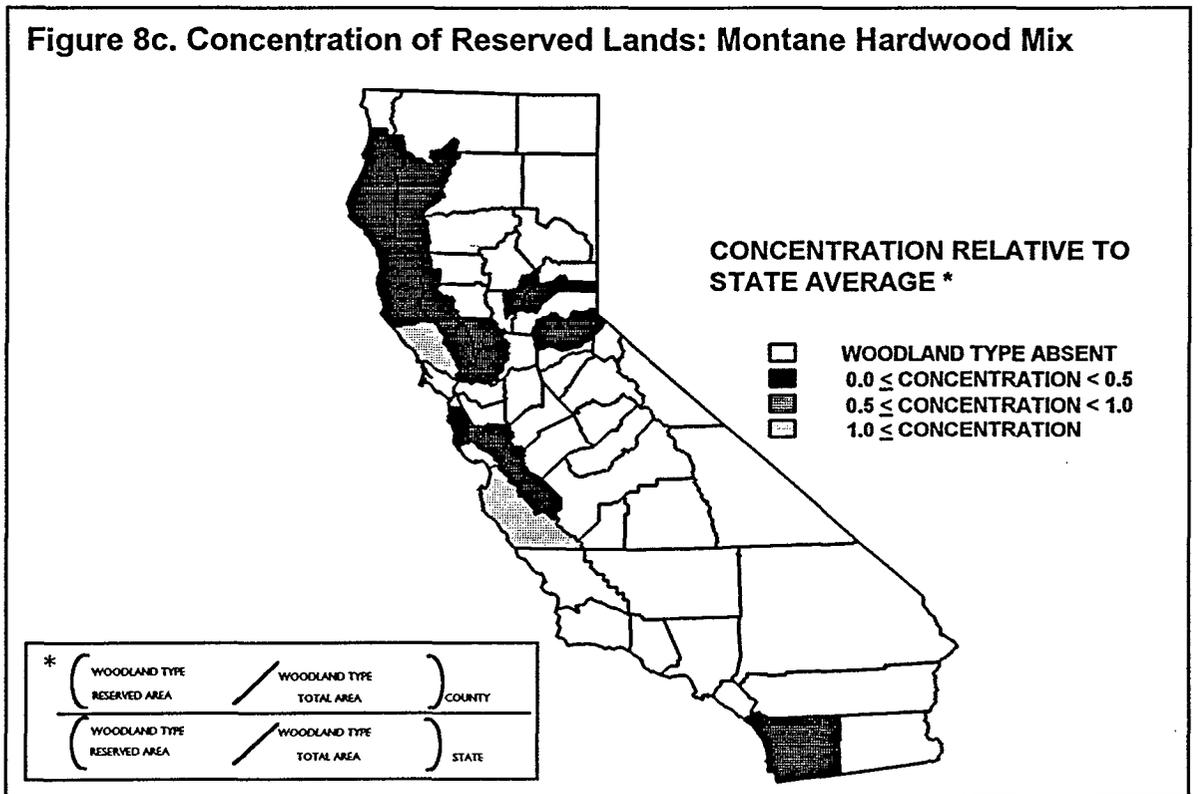
Source: Pillsbury, 1991, and FRRAP Information and Analysis System

Figure 8b. Concentration of Public Ownership: Montane Hardwood Mix



Source: Pillsbury, 1991, and FRRAP Information and Analysis System

Figure 8c. Concentration of Reserved Lands: Montane Hardwood Mix



Source: Pillsbury, 1991, and FRRAP Information and Analysis System

SUMMARY OF STATE AND COUNTY RESERVED HARDWOOD RANGELANDS

When compared to other habitat types, hardwood rangelands are poorly protected under the existing reserve system (Jones & Stokes Associates, 1987). Coastal oak woodland is the most protected, while montane hardwood mix as mapped by Pillsbury and others (1991) is the least protected (Table 3).

Table 3. Percent of Hardwood Rangeland Cover Type in Reserved Status

<u>Hardwood Rangeland Cover Type</u>	<u>Percent Reserved</u>
All hardwood rangelands	4.0
Blue oak woodland	3.1
Blue oak-foothill pine woodland	3.3
Valley oak woodland	4.8
Coastal oak woodland	6.4
Interior and/or canyon live oak woodland	4.2
Montane hardwood mix	1.0

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

The spatial concentration of reserved lands differs between woodland types (Table 4). Reserved ownership is most concentrated for valley oak woodland and montane hardwood mix and most dispersed for interior and/or canyon live oak woodland.

Table 4. Percentage of Counties with Greater Than Expected Concentration of Reserved Ownership by Hardwood Rangeland Cover Type

<u>Hardwood Rangeland Cover Type</u>	<u>Percentage of Counties with Concentration > 1</u>
All hardwood rangelands	25.5
Blue oak woodland	27.3
Blue oak-foothill pine woodland	18.7
Valley oak woodland	11.8
Coastal oak woodland	22.2
Interior and/or canyon live oak woodland	33.3
Montane hardwood mix	12.5

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

Table 5. Counties Ranked According to Protection of Hardwood Rangelands through Reserves

COUNTY	ALL HARDWOOD RANGELAND RANK	BLUE OAK RANK	BLUE OAK- FOOTHILL PINE RANK	VALLEY OAK RANK	COASTAL OAK RANK	INTERIOR AND/OR CANYON LIVE OAK RANK	MONTANE HARDWOOD MIX RANK
SAN DIEGO	1	.	.	.	2	1	5
SANTA CRUZ	1	.	.	4	4	1	.
CONTRA COSTA	1	1	1	.	1	.	.
TEHAMA	1	1	1	4	.	1	.
VENTURA	1	1	5	4	1	.	.
STANISLAUS	1	2	1	5	1	.	.
SANTA CLARA	1	2	4	2	1	5	5
RIVERSIDE	1	5	.	.	1	1	.
SAN BERNARDINO	2	.	.	.	5	2	.
YUBA	2	1	1	.	.	2	5
MONTEREY	2	1	4	1	3	1	1
TULARE	2	4	1	.	.	1	.
SAN MATEO	3	.	.	.	3	.	5
SONOMA	3	.	.	.	3	5	1
MARIN	3	.	.	5	3	.	.
BUTTE	3	.	4	.	.	2	.
NEVADA	3	.	5	.	.	3	5
SAN LUIS OBISPO	3	2	4	5	3	.	.
SANTA BARBARA	3	4	2	5	4	.	.
ALAMEDA	3	5	3	5	4	2	.
PLACER	4	.	5	.	.	4	.
MERCED	4	2	.	4	5	.	.
MADERA	4	3	5	.	.	4	.
LOS ANGELES	4	4	.	5	4	3	.
MARIPOSA	4	4	5	.	.	5	.
FRESNO	4	4	5	.	5	1	.
COLUSA	4	4	5	5	.	.	.
KERN	4	4	5	5	.	5	.
SAN BENITO	4	4	5	5	4	5	4
MENDOCINO	4	5	.	.	5	5	4
EL DORADO	4	5	4	.	.	4	5
SHASTA	4	5	4	.	.	5	.
TUOLUMNE	4	5	5	.	.	4	.
NAPA	4	5	5	5	4	5	4
SIERRA	5	.	.	.	.	5	.
ORANGE	5	.	.	.	5	.	.
TRINITY	5	.	.	.	5	.	5
HUMBOLDT	5	.	.	.	5	5	5
SOLANO	5	.	.	.	5	5	5
GLENN	5	5	5	.	.	.	.
KINGS	5	5	5	.	.	.	.
SAN JOAQUIN	5	5	5	.	.	.	.
AMADOR	5	5	5	.	.	5	.
CALAVERAS	5	5	5	.	.	5	.
SACRAMENTO	5	5	5	.	.	5	.
YOLO	5	5	5	.	5	5	5
LAKE	5	5	5	5	5	5	5

Rank 1 - Relative Concentration Reserved Land > 2.0
 Rank 2 - Relative Concentration Reserved Land > 1.0 and < 2.0
 Rank 3 - Relative Concentration Reserved Land > 0.5 and < 1.0
 Rank 4 - Relative Concentration Reserved Land > 0.0 and < 0.5
 Rank 5 - Relative Concentration Reserved Land = 0.0
 • Cover type not present

Note: Counties with less than 500 acres of a particular hardwood rangeland cover type (see Table A-2 and Appendix B) are ranked in this table according to the actual acreage of the hardwood rangeland cover type within the county.

Source: FRRAP Information and Analysis System

Table 5 ranks counties according to the relative concentration of reserved ownership of hardwood rangelands in general, and five major cover types in particular. Ranks 1 and 2 indicate greater than expected concentration while ranks 3 to 5 indicate lower than expected concentration. Rank 5 indicates absence of lands in reserved status.

Even in counties with higher than average proportions of reserved hardwood rangelands, not all hardwood rangeland cover types are equally protected. For instance, Riverside County has the highest proportion of reserved hardwood rangelands in the state (Table C-1a). However, none of the blue oak woodland within the county is reserved. Contra Costa reserves a greater than expected proportion of all extant hardwood rangeland cover types. San Diego, Yuba, Tehama, Stanislaus, Riverside, San Bernardino, and Tulare reserve a greater than average proportion of all but one of the hardwood rangeland cover types extant within their borders.

While counties with less than average amounts of reserved hardwood rangelands do occasionally have high protection rates for individual cover types (e.g., interior and/or canyon live oak woodland in Fresno), poor overall protection translates generally into poor protection for each cover type. With the exception of Monterey and Santa Clara, counties that contain all five cover types (San Benito, Lake, and Napa) have little or no reserved lands.

Reserving an area of each hardwood rangeland cover type in each county proportional to that of hardwood rangelands reserved over the entire state would protect each hardwood rangeland cover type equally throughout its range. This policy would require 224,884 acres of newly designated reserves, affecting all hardwood rangeland counties except Contra Costa (Table 6). This figure exceeds the 199,473 acres cited on page 7 since it embodies an equal level of protection for each hardwood rangeland cover type and not just for all hardwood rangelands treated as a single class. In those counties with greater than average proportions of reserved hardwood rangelands, only one or two cover types require additional reservation. The median amount of land to be reserved is small (2,463 acres), but in 11 counties more than 7,000 acres would need to be designated as reserved. Of these 11, eight are in the Central and Southern Sierra (Amador, Calaveras, Tuolumne, Mariposa, Madera, Fresno, Tulare, and Kern).

The amount of private land implicated in such a strategy would be slight (Table 7). Less than 12 percent of the total (26,495 acres) would need to be found on private land. Less than 10 acres of private land would be required in 17 counties, some of which (Mendocino, Fresno, Kern, and Tulare) appear high on the list of counties requiring large amounts of reserved land. The median amount of private land required to reach the target is 163 acres. Only four counties require more than 2,000 acres (Shasta, Amador, Mariposa, and Alameda).

Table 6. Additional Acres of Reserved Hardwood Rangelands Needed to Achieve Protection Equal to the State Average, by County

COUNTY	RESERVED ACRES NEEDED
KERN	28850
FRESNO	16856
SAN BENITO	15788
MENDOCINO	15033
CALAVERAS	12747
TULARE	12535
MARIPOSA	11753
SHASTA	10224
TUOLUMNE	9444
MADERA	8362
AMADOR	7186
NAPA	6216
COLUSA	5896
SANTA BARBARA	5807
EL DORADO	5676
GLENN	5346
LAKE	4812
PLACER	4023
YOLO	3988
SAN LUIS OBISPO	3521
SONOMA	3045
BUTTE	2966
ALAMEDA	2681
MONTEREY	2463
SANTA CLARA	2216
MERCED	2177
HUMBOLDT	2135
NEVADA	1852
LOS ANGELES	1819
SOLANO	1805
ORANGE	1620
SAN JOAQUIN	1580
SACRAMENTO	940
TRINITY	806
KINGS	660
MARIN	448
SAN DIEGO	263
STANISLAUS	255
VENTURA	250
SANTA CRUZ	228
SAN BERNARDINO	227
SAN MATEO	187
SIERRA	103
TEHAMA	46
YUBA	40
RIVERSIDE	11
CONTRA COSTA	0

Source: FRRAP Information and Analysis System

Table 7. Additional Acres of Private Reserved Hardwood Rangelands Needed to Achieve Protection Equal to the State Average, by County

COUNTY	PRIVATE ACRES NEEDED
SHASTA	4539
AMADOR	3439
MARIPOSA	2185
ALAMEDA	2044
SAN BENITO	1860
HUMBOLDT	1810
SAN JOAQUIN	1580
BUTTE	1530
YOLO	1394
CALAVERAS	711
SACRAMENTO	619
TRINITY	536
NAPA	472
MARIN	448
NEVADA	446
SOLANO	418
SAN LUIS OBISPO	339
MERCED	327
STANISLAUS	255
SANTA CRUZ	228
SAN BERNARDINO	227
PLACER	198
SAN MATEO	187
EL DORADO	163
LOS ANGELES	160
VENTURA	130
SAN DIEGO	127
SANTA CLARA	58
TEHAMA	46
COLUSA	12
MENDOCINO	3
LAKE	2
FRESNO	1
KERN	0
TULARE	0
TUOLUMNE	0
MADERA	0
SANTA BARBARA	0
GLENN	0
SONOMA	0
MONTEREY	0
ORANGE	0
KINGS	0
SIERRA	0
YUBA	0
RIVERSIDE	0
CONTRA COSTA	0

Source: FRRAP Information and Analysis System

LITERATURE CITED

Bolsinger, C. *The Hardwoods of California's Timberlands, Woodlands, and Savannas*. Pacific Northwest Research Station, Portland, OR, 1988.

Fox, L. *A Classification, Map, and Volume Estimate for the Coast Redwood Forest in California*. Humboldt State University, Arcata, CA, 1988.

Griffin, J. and Critchfield, W. *The Distribution of Forest Trees in California*. Pacific Southwest Forest and Range Experiment Station, Berkeley, CA, 1972.

Jones & Stokes Associates. *Sliding Toward Extinction: The State of California's Natural Heritage*. Jones & Stokes Associates, Sacramento, CA, 1987.

Mayer, K. and Laudenslayer, W. Jr. *A Guide to Wildlife Habitats of California*. California Department of Forestry and Fire Protection, Sacramento, CA, 1988.

Parker, I. and Matyas, K. *CALVEG A Classification of California Vegetation*. Regional Ecology Group, 1979.

Pillsbury, N. and others. *Mapping and GIS Database Development for California's Hardwood Resources*. California Polytechnic State University, San Luis Obispo, CA, 1991.

APPENDIX A: HARDWOOD RANGELAND ACRES FOR CALIFORNIA

TABLE A-1. HARDWOOD RANGELAND ACRES FOR CALIFORNIA (THOUSANDS OF ACRES)

OWNER (2,4)	WOODLAND TYPE (3,4)	% CANOPY COVER				TOTAL (1)
		0-10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	1258	903	465	45	2669
	BLUE OAK-FOOTHILL PINE	695	706	434	65	1901
	VALLEY OAK	96	77	43	7	223
	COAST LIVE OAK	637	482	394	178	1690
	INTERIOR/CANYON LIVE OAK	202	307	504	299	1312
	MONTANE HARDWOOD MIX	29	67	115	166	377
	ALL SPECIES (1)	2917	2541	1954	760	8172
BUREAU OF LAND MGMT	BLUE OAK	93	40	18	3	154
	BLUE OAK-FOOTHILL PINE	114	93	27	6	240
	VALLEY OAK	1	2	-	-	4
	COAST LIVE OAK	23	12	10	5	51
	INTERIOR/CANYON LIVE OAK	12	19	24	25	80
	MONTANE HARDWOOD MIX	1	2	2	9	14
	ALL SPECIES (1)	244	166	82	48	542
DEPT OF DEFENSE	BLUE OAK	34	42	14	-	90
	BLUE OAK-FOOTHILL PINE	7	6	3	1	17
	VALLEY OAK	1	-	-	-	1
	COAST LIVE OAK	18	18	15	1	52
	INTERIOR/CANYON LIVE OAK	10	9	5	2	26
	MONTANE HARDWOOD MIX	-	-	-	-	-
	ALL SPECIES (1)	70	76	37	4	187
CA DEPT OF PARKS & REC	BLUE OAK	5	2	1	-	8
	BLUE OAK-FOOTHILL PINE	9	3	2	1	14
	VALLEY OAK	-	-	-	-	1
	COAST LIVE OAK	32	10	11	5	57
	INTERIOR/CANYON LIVE OAK	6	4	6	7	24
	MONTANE HARDWOOD MIX	-	-	-	1	1
	ALL SPECIES (1)	53	19	19	14	105
FOREST SERVICE RESERVED	BLUE OAK	36	26	6	-	68
	BLUE OAK-FOOTHILL PINE	6	9	4	1	20
	VALLEY OAK	1	7	-	-	8
	COAST LIVE OAK	36	13	9	1	60
	INTERIOR/CANYON LIVE OAK	14	5	11	8	38
	MONTANE HARDWOOD MIX	-	-	3	-	3
	ALL SPECIES (1)	93	61	34	10	197
FOREST SERVICE UNRESERVED	BLUE OAK	100	85	39	7	231
	BLUE OAK-FOOTHILL PINE	17	18	7	1	44
	VALLEY OAK	3	3	5	-	10
	COAST LIVE OAK	116	47	19	2	184
	INTERIOR/CANYON LIVE OAK	48	41	44	29	162
	MONTANE HARDWOOD MIX	-	-	-	2	2
	ALL SPECIES (1)	284	194	114	42	633
OTHER PUBLIC RESERVED	BLUE OAK	16	6	3	1	26
	BLUE OAK-FOOTHILL PINE	15	23	6	-	43
	VALLEY OAK	3	-	1	-	4
	COAST LIVE OAK	5	8	4	5	22
	INTERIOR/CANYON LIVE OAK	-	3	6	-	9
	MONTANE HARDWOOD MIX	-	-	-	-	-
	ALL SPECIES (1)	40	39	19	5	103

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE A-1. (continued) HARDWOOD RANGELAND ACRES FOR CALIFORNIA (THOUSANDS OF ACRES)

OWNER (2,4)	WOODLAND TYPE (3,4)	% CANOPY COVER				TOTAL (
		0-10	10-33	34-75	76-100	
OTHER PUBLIC UNRESERVED	BLUE OAK	8	2	2	1	12
	BLUE OAK-FOOTHILL PINE	17	14	1	1	34
	VALLEY OAK	1	-	-	-	1
	COAST LIVE OAK	22	11	6	3	42
	INTERIOR/CANYON LIVE OAK	9	8	4	-	21
	MONTANE HARDWOOD MIX	-	2	2	7	11
	ALL SPECIES (1)	56	37	15	11	120
ALL OWNERS (1)	BLUE OAK	1550	1105	547	56	3259
	BLUE OAK-FOOTHILL PINE	880	873	483	77	2313
	VALLEY OAK	106	89	49	7	251
	COAST LIVE OAK	890	601	468	199	2158
	INTERIOR/CANYON LIVE OAK	301	396	604	370	1671
	MONTANE HARDWOOD MIX	31	71	122	185	409
	ALL SPECIES (1)	3758	3134	2273	895	10060

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE A-2. HARDWOOD RANGELAND ACRES BY COUNTY FOR CALIFORNIA (THOUSANDS OF ACRES)
WOODLAND TYPE (2,3)

COUNTIES	BLUE OAK	BLUE OAK - FOOTHILL PINE	VALLEY OAK	COAST LIVE OAK	INTERIOR/CANYON LIVE OAK	MONTANE HARDWOOD MIX	TOTAL(1)
ALAMEDA	-	43	-	55	32	-	131
ALPINE	-	-	-	-	-	-	-
AMADOR	38	79	-	-	61	-	178
BUTTE	5	82	-	-	143	-	230
CALAVERAS	74	102	-	-	141	-	316
COLUSA	65	84	-	-	-	-	149
CONTRA COSTA	14	14	-	52	-	-	81
DEL NORTE	-	-	-	-	-	-	-
EL DORADO	4	25	-	-	149	1	178
FRESNO	222	222	-	-	49	-	493
GLENN	96	37	-	-	-	-	133
HUMBOLDT	-	-	-	4	6	57	67
IMPERIAL	-	-	-	-	-	-	-
INYO	-	-	-	-	-	-	-
KERN	592	26	65	-	38	-	721
KINGS	15	2	-	-	-	-	16
LAKE	29	49	-	12	27	3	119
LASSEN	-	-	-	-	-	-	-
LOS ANGELES	34	-	1	15	20	-	70
MADERA	137	89	-	-	58	-	283
MARIN	-	-	2	59	-	-	62
MARIPOSA	130	80	-	-	89	-	299
MENDOCINO	1	-	-	104	105	164	374
MERCED	39	-	25	31	-	-	96
MODOC	-	-	-	-	-	-	-
MONO	-	-	-	-	-	-	-
MONTEREY	487	87	33	207	83	23	921
NAPA	23	30	1	4	8	92	159
NEVADA	-	9	-	-	124	6	139
ORANGE	-	-	-	40	-	-	40
PLACER	-	5	-	-	100	-	105
PLUMAS	-	-	-	-	-	-	-
RIVERSIDE	-	-	-	44	28	-	72
SACRAMENTO	8	7	-	-	9	-	23
SAN BENITO	40	217	9	169	-	3	437
SAN BERNARDINO	-	-	-	6	12	-	18
SAN DIEGO	-	-	-	294	19	7	320
SAN FRANCISCO	-	-	-	-	-	-	-
SAN JOAQUIN	19	22	-	-	-	-	39
SAN LUIS OBISPO	284	80	8	351	-	-	724
SAN MATEO	-	-	-	7	-	4	11
SANTA BARBARA	30	8	25	282	-	-	345
SANTA CLARA	11	57	63	189	1	-	321
SANTA CRUZ	-	-	-	7	12	-	20
SHASTA	55	212	-	-	4	-	287
SIERRA	-	-	-	-	3	-	3
SISKIYOU	-	-	-	-	-	-	-
SOLANO	-	-	-	9	10	25	45
SONOMA	-	-	-	110	76	26	211
STANISLAUS	72	63	6	4	-	-	145
SUTTER	-	-	-	-	-	-	-
TEHAMA	282	332	3	-	17	-	633
TRINITY	-	-	-	7	-	13	20
TULARE	357	110	-	-	69	-	536
TUOLUMNE	60	87	-	-	87	-	234
VENTURA	13	1	8	91	-	-	113
YOLO	45	41	-	3	9	-	99
YUBA	2	12	-	-	80	1	95

- (1) TOTALS MAY BE OFF DUE TO ROUNDING
(2) ABSENCE OF WOODLAND ACREAGE INDICATES LESS THAN 500 ACRES PRESENT
(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

Source: Pillsbury and others, 1991, and FRRAP Information
and Analysis System

APPENDIX B: HARDWOOD RANGELAND ACRES BY COUNTY FOR CALIFORNIA

TABLE B-1. HARDWOOD RANGELAND ACRES FOR ALAMEDA (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK-FOOTHILL PINE	19	14	8	1	42
	COAST LIVE OAK	4	7	22	22	55
	INTERIOR/CANYON LIVE OAK	9	6	13	2	31
	ALL SPECIES (1)	32	26	44	25	127
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE	-	-	-	-	1
	ALL SPECIES (1)	-	-	-	-	1
OTHER PUBLIC RESERVED	BLUE OAK-FOOTHILL PINE	1	-	-	-	1
	INTERIOR/CANYON LIVE OAK	-	1	1	-	2
	ALL SPECIES (1)	1	1	1	-	3
ALL OWNERS (1)	BLUE OAK-FOOTHILL PINE	20	14	8	1	43
	COAST LIVE OAK	4	7	22	22	55
	INTERIOR/CANYON LIVE OAK	9	7	14	2	32
	ALL SPECIES (1)	34	28	44	25	131

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-2. HARDWOOD RANGELAND ACRES FOR AMADOR (THOUSANDS OF ACRES)

% CANOPY COVER

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	22	11	4	1	38
	BLUE OAK-FOOTHILL PINE	41	6	23	8	78
	INTERIOR/CANYON LIVE OAK	7	11	30	8	56
	ALL SPECIES (1)	70	28	57	17	172
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE	-	-	-	-	1
	INTERIOR/CANYON LIVE OAK	-	1	1	2	5
	ALL SPECIES (1)	-	1	2	3	6
ALL OWNERS (1)	BLUE OAK	23	11	4	1	38
	BLUE OAK-FOOTHILL PINE	41	6	23	9	79
	INTERIOR/CANYON LIVE OAK	7	12	31	11	61
	ALL SPECIES (1)	71	29	58	20	178

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-3. HARDWOOD RANGELAND ACRES FOR BUTTE (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	0	5	0	0	5
	BLUE OAK-FOOTHILL PINE	29	38	10	3	80
	INTERIOR/CANYON LIVE OAK	7	21	53	44	125
	ALL SPECIES (1)	37	64	63	47	210
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE	1	-	-	-	1
	INTERIOR/CANYON LIVE OAK	1	-	2	1	4
	ALL SPECIES (1)	2	1	2	1	5
CA DEPT OF PARKS & REC	INTERIOR/CANYON LIVE OAK	1	1	2	3	7
	ALL SPECIES (1)	1	1	2	3	7
FOREST SERVICE UNRESERVED	INTERIOR/CANYON LIVE OAK	-	1	3	4	8
	ALL SPECIES (1)	-	1	3	4	8
ALL OWNERS (1)	BLUE OAK	0	5	0	0	5
	BLUE OAK-FOOTHILL PINE	31	38	10	3	82
	INTERIOR/CANYON LIVE OAK	9	24	59	51	143
	ALL SPECIES (1)	39	67	70	54	230

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-4. HARDWOOD RANGELAND ACRES FOR CALAVERAS (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	36	26	10	-	71
	BLUE OAK-FOOTHILL PINE	29	34	21	9	94
	INTERIOR/CANYON LIVE OAK	15	14	36	56	121
	ALL SPECIES (1)	80	74	67	66	287
BUREAU OF LAND MGMT	BLUE OAK	1	-	-	-	2
	BLUE OAK-FOOTHILL PINE	-	-	1	-	2
	INTERIOR/CANYON LIVE OAK	2	1	2	10	16
	ALL SPECIES (1)	4	2	3	10	19
DEPT OF DEFENSE	BLUE OAK	-	-	-	-	1
	BLUE OAK-FOOTHILL PINE	1	3	1	-	6
	INTERIOR/CANYON LIVE OAK	1	2	2	-	4
	ALL SPECIES (1)	2	5	3	-	10
ALL OWNERS (1)	BLUE OAK	37	26	10	-	74
	BLUE OAK-FOOTHILL PINE	31	38	23	10	102
	INTERIOR/CANYON LIVE OAK	18	17	40	66	141
	ALL SPECIES (1)	86	81	73	76	316

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-5. HARDWOOD RANGELAND ACRES FOR COLUSA (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	9	15	36	-	60
	BLUE OAK-FOOTHILL PINE	16	20	30	8	73
	ALL SPECIES (1)	25	35	66	8	134
BUREAU OF LAND MGMT	BLUE OAK	-	-	4	-	4
	BLUE OAK-FOOTHILL PINE	3	5	1	1	11
	ALL SPECIES (1)	4	6	5	1	15
ALL OWNERS (1)	BLUE OAK	10	15	40	-	65
	BLUE OAK-FOOTHILL PINE	19	25	31	8	84
	ALL SPECIES (1)	30	40	71	8	149

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-6. HARDWOOD RANGELAND ACRES FOR CONTRA COSTA (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	6	1	5	-	13
	BLUE OAK-FOOTHILL PINE	-	5	6	1	12
	COAST LIVE OAK	9	14	11	11	45
	ALL SPECIES (1)	15	20	22	12	69
CA DEPT OF PARKS & REC	BLUE OAK-FOOTHILL PINE	-	1	1	-	2
	COAST LIVE OAK	1	1	-	-	2
	ALL SPECIES (1)	1	1	1	-	4
OTHER PUBLIC RESERVED	BLUE OAK	1	-	1	-	2
	COAST LIVE OAK	-	1	2	2	5
	ALL SPECIES (1)	1	1	3	2	7
ALL OWNERS (1)	BLUE OAK	7	1	6	-	14
	BLUE OAK-FOOTHILL PINE	-	6	7	1	14
	COAST LIVE OAK	10	16	13	13	52
	ALL SPECIES (1)	17	23	26	14	81

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-7. HARDWOOD RANGELAND ACRES FOR EL DORADO (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	2	-	-	1	4
	BLUE OAK-FOOTHILL PINE	6	13	4	-	24
	INTERIOR/CANYON LIVE OAK	31	32	64	14	140
	MONTANE HARDWOOD MIX	-	1	-	-	1
	ALL SPECIES (1)	39	46	68	15	167
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE	-	1	-	-	1
	INTERIOR/CANYON LIVE OAK	-	2	2	2	6
	ALL SPECIES (1)	1	2	2	2	7
CA DEPT OF PARKS & REC	INTERIOR/CANYON LIVE OAK	-	-	1	-	1
	ALL SPECIES (1)	-	-	1	-	2
FOREST SERVICE UNRESERVED	INTERIOR/CANYON LIVE OAK	-	1	1	1	2
	ALL SPECIES (1)	-	1	1	1	2
ALL OWNERS (1)	BLUE OAK	2	-	-	1	4
	BLUE OAK-FOOTHILL PINE	7	15	4	-	25
	INTERIOR/CANYON LIVE OAK	31	34	67	17	149
	MONTANE HARDWOOD MIX	-	1	-	-	1
	ALL SPECIES (1)	40	49	72	18	178

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-8. HARDWOOD RANGELAND ACRES FOR FRESNO (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	48	91	37	2	178
	BLUE OAK-FOOTHILL PINE	96	61	6	-	163
	INTERIOR/CANYON LIVE OAK	1	3	18	2	23
	ALL SPECIES (1)	144	155	60	4	364
BUREAU OF LAND MGMT	BLUE OAK	3	2	1	-	7
	BLUE OAK-FOOTHILL PINE	34	21	2	-	57
	INTERIOR/CANYON LIVE OAK	-	-	1	-	1
	ALL SPECIES (1)	37	23	4	-	64
FOREST SERVICE RESERVED	BLUE OAK	1	-	-	-	1
	INTERIOR/CANYON LIVE OAK	-	-	1	4	5
	ALL SPECIES (1)	1	-	1	4	6
FOREST SERVICE UNRESERVED	BLUE OAK	13	19	3	1	36
	BLUE OAK-FOOTHILL PINE	-	-	-	-	1
	INTERIOR/CANYON LIVE OAK	-	2	15	2	20
	ALL SPECIES (1)	14	21	18	3	56
OTHER PUBLIC UNRESERVED	BLUE OAK-FOOTHILL PINE	1	1	-	-	2
	ALL SPECIES (1)	1	1	-	-	2
ALL OWNERS (1)	BLUE OAK	65	113	41	4	222
	BLUE OAK-FOOTHILL PINE	131	83	8	-	222
	INTERIOR/CANYON LIVE OAK	1	5	35	8	49
	ALL SPECIES (1)	198	201	84	12	493

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-9. HARDWOOD RANGELAND ACRES FOR GLENN (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	33	30	21	4	88
	BLUE OAK-FOOTHILL PINE	7	11	13	-	31
	ALL SPECIES (1)	40	41	34	4	119
BUREAU OF LAND MGMT	BLUE OAK	2	-	2	-	5
	BLUE OAK-FOOTHILL PINE	-	1	1	-	2
	ALL SPECIES (1)	2	1	4	-	7
DEPT OF DEFENSE	BLUE OAK	-	1	-	-	1
	ALL SPECIES (1)	-	1	-	-	1
FOREST SERVICE UNRESERVED	BLUE OAK	1	-	-	-	2
	BLUE OAK-FOOTHILL PINE	-	3	-	-	3
	ALL SPECIES (1)	1	4	-	-	5
ALL OWNERS (1)	BLUE OAK	36	32	23	4	96
	BLUE OAK-FOOTHILL PINE	7	15	15	-	37
	ALL SPECIES (1)	43	48	38	4	133

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-10. HARDWOOD RANGELAND ACRES FOR HUMBOLDT (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	COAST LIVE OAK	-	2	2	-	4
	INTERIOR/CANYON LIVE OAK	2	1	2	-	6
	MONTANE HARDWOOD MIX	3	10	21	22	56
	ALL SPECIES (1)	5	13	25	22	66
ALL OWNERS (1)	COAST LIVE OAK	-	2	2	-	4
	INTERIOR/CANYON LIVE OAK	2	1	2	-	6
	MONTANE HARDWOOD MIX	3	10	21	22	56
	ALL SPECIES (1)	5	13	25	22	66

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-11. HARDWOOD RANGELAND ACRES FOR KERN (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	275	111	67	9	462
	BLUE OAK-FOOTHILL PINE	14	4	1	1	19
	VALLEY OAK	23	26	12	-	62
	INTERIOR/CANYON LIVE OAK	3	11	3	2	19
	ALL SPECIES (1)	315	152	83	12	562
BUREAU OF LAND MGMT	BLUE OAK	35	14	4	-	53
	BLUE OAK-FOOTHILL PINE	1	-	-	-	2
	VALLEY OAK	1	1	-	-	3
	INTERIOR/CANYON LIVE OAK	-	2	2	-	3
	ALL SPECIES (1)	37	17	6	-	60
FOREST SERVICE UNRESERVED	BLUE OAK	31	25	15	6	76
	BLUE OAK-FOOTHILL PINE	1	1	3	-	5
	INTERIOR/CANYON LIVE OAK	-	5	6	6	16
	ALL SPECIES (1)	32	31	23	11	98
OTHER PUBLIC UNRESERVED	BLUE OAK	1	-	-	-	1
	ALL SPECIES (1)	1	-	-	-	1
ALL OWNERS (1)	BLUE OAK	342	150	86	15	592
	BLUE OAK-FOOTHILL PINE	16	5	4	1	26
	VALLEY OAK	24	27	13	1	65
	INTERIOR/CANYON LIVE OAK	3	18	10	8	38
	ALL SPECIES (1)	385	200	113	24	721

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-12. HARDWOOD RANGELAND ACRES FOR KINGS (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	7	5	1	-	13
	BLUE OAK-FOOTHILL PINE	-	2	-	-	2
	ALL SPECIES (1)	7	7	1	-	15
BUREAU OF LAND MGMT	BLUE OAK	1	-	-	-	1
	ALL SPECIES (1)	1	1	-	-	2
ALL OWNERS (1)	BLUE OAK	8	6	1	-	15
	BLUE OAK-FOOTHILL PINE	-	2	-	-	2
	ALL SPECIES (1)	8	7	1	-	16

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-13. HARDWOOD RANGELAND ACRES FOR LAKE (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	10	11	2	3	26
	BLUE OAK-FOOTHILL PINE	6	21	11	2	40
	COAST LIVE OAK	1	3	1	1	5
	INTERIOR/CANYON LIVE OAK	4	4	7	8	24
	MONTANE HARDWOOD MIX	-	-	-	2	2
	ALL SPECIES (1)	21	38	21	16	96
BUREAU OF LAND MGMT	BLUE OAK	2	1	-	-	3
	BLUE OAK-FOOTHILL PINE	4	3	1	-	9
	COAST LIVE OAK	4	2	-	-	6
	INTERIOR/CANYON LIVE OAK	-	-	-	1	2
	MONTANE HARDWOOD MIX	1	-	-	-	1
	ALL SPECIES (1)	11	6	2	2	21
FOREST SERVICE UNRESERVED	INTERIOR/CANYON LIVE OAK	-	1	-	1	2
	ALL SPECIES (1)	-	1	1	1	2
ALL OWNERS (1)	BLUE OAK	12	12	3	3	29
	BLUE OAK-FOOTHILL PINE	10	24	12	3	49
	COAST LIVE OAK	5	5	1	1	12
	INTERIOR/CANYON LIVE OAK	4	5	8	10	27
	MONTANE HARDWOOD MIX	1	-	-	2	3
	ALL SPECIES (1)	32	45	24	19	119

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-14. HARDWOOD RANGELAND ACRES FOR LOS ANGELES (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	3	3	6	-	12
	VALLEY OAK	-	1	-	-	1
	COAST LIVE OAK	5	3	-	6	15
	INTERIOR/CANYON LIVE OAK	2	1	2	-	5
	ALL SPECIES (1)	10	8	8	6	32
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK	1	-	-	-	1
	ALL SPECIES (1)	1	-	-	-	1
FOREST SERVICE UNRESERVED	BLUE OAK	10	2	9	-	22
	INTERIOR/CANYON LIVE OAK	13	2	-	-	15
	ALL SPECIES (1)	23	4	9	-	37
ALL OWNERS (1)	BLUE OAK	13	5	15	-	34
	VALLEY OAK	-	1	-	-	1
	COAST LIVE OAK	5	3	-	6	15
	INTERIOR/CANYON LIVE OAK	16	3	2	-	20
	ALL SPECIES (1)	34	13	17	6	70

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-15. HARDWOOD RANGELAND ACRES FOR MADERA (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	45	51	32	1	128
	BLUE OAK-FOOTHILL PINE	30	46	8	-	84
	INTERIOR/CANYON LIVE OAK	12	19	20	-	51
	ALL SPECIES (1)	87	116	60	1	263
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE	3	2	-	-	4
	INTERIOR/CANYON LIVE OAK	-	-	-	-	1
	ALL SPECIES (1)	3	2	1	-	6
FOREST SERVICE UNRESERVED	BLUE OAK	1	2	2	-	5
	INTERIOR/CANYON LIVE OAK	1	2	1	1	6
	ALL SPECIES (1)	2	4	4	1	11
OTHER PUBLIC RESERVED	BLUE OAK	1	1	1	-	3
	ALL SPECIES (1)	1	1	1	-	3
ALL OWNERS (1)	BLUE OAK	46	54	36	1	137
	BLUE OAK-FOOTHILL PINE	33	48	8	-	89
	INTERIOR/CANYON LIVE OAK	13	21	22	1	58
	ALL SPECIES (1)	93	123	65	2	283

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-16. HARDWOOD RANGELAND ACRES FOR MARIN (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	VALLEY OAK	-	-	2	-	2
	COAST LIVE OAK	8	11	16	22	57
	ALL SPECIES (1)	8	11	19	22	59
OTHER PUBLIC RESERVED	COAST LIVE OAK	-	-	-	1	2
	ALL SPECIES (1)	-	-	-	1	2
ALL OWNERS (1)	VALLEY OAK	-	-	2	-	2
	COAST LIVE OAK	8	11	17	23	59
	ALL SPECIES (1)	8	11	19	23	62

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-17. HARDWOOD RANGELAND ACRES FOR MARIPOSA (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	35	71	16	6	127
	BLUE OAK-FOOTHILL PINE	21	29	7	1	57
	INTERIOR/CANYON LIVE OAK	5	14	32	27	78
	ALL SPECIES (1)	60	115	54	34	263
BUREAU OF LAND MGMT	BLUE OAK	2	1	-	-	3
	BLUE OAK-FOOTHILL PINE	12	6	2	-	20
	INTERIOR/CANYON LIVE OAK	-	2	4	1	6
	ALL SPECIES (1)	14	9	6	1	29
FOREST SERVICE UNRESERVED	BLUE OAK-FOOTHILL PINE	1	-	-	1	2
	INTERIOR/CANYON LIVE OAK	1	-	3	-	4
	ALL SPECIES (1)	1	1	4	1	7
ALL OWNERS (1)	BLUE OAK	37	72	16	6	130
	BLUE OAK-FOOTHILL PINE	34	35	9	2	80
	INTERIOR/CANYON LIVE OAK	5	16	39	28	89
	ALL SPECIES (1)	76	124	64	36	299

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE :	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-18. HARDWOOD RANGELAND ACRES FOR MENDOCINO (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	COAST LIVE OAK	8	13	35	37	93
	INTERIOR/CANYON LIVE OAK	10	24	43	23	101
	MONTANE HARDWOOD MIX	12	24	54	57	147
	ALL SPECIES (1)	31	62	132	117	341
BUREAU OF LAND MGMT	COAST LIVE OAK	-	1	4	3	8
	INTERIOR/CANYON LIVE OAK	-	-	1	2	3
	MONTANE HARDWOOD MIX	-	-	1	3	5
	ALL SPECIES (1)	-	2	6	9	16
DEPT OF DEFENSE	COAST LIVE OAK	-	-	-	-	1
	ALL SPECIES (1)	-	-	-	-	1
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX	-	-	-	2	2
	ALL SPECIES (1)	-	-	-	2	3
OTHER PUBLIC UNRESERVED	COAST LIVE OAK	-	-	-	2	2
	INTERIOR/CANYON LIVE OAK	-	-	1	-	1
	MONTANE HARDWOOD MIX	-	2	2	5	9
	ALL SPECIES (1)	-	2	3	6	12
ALL OWNERS (1)	BLUE OAK	-	1	-	-	1
	COAST LIVE OAK	8	14	39	42	104
	INTERIOR/CANYON LIVE OAK	10	25	45	25	105
	MONTANE HARDWOOD MIX	13	26	58	67	164
	ALL SPECIES (1)	31	66	142	135	374

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-19. HARDWOOD RANGELAND ACRES FOR MERCED (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	16	15	6	-	37
	VALLEY OAK	4	7	13	-	25
	COAST LIVE OAK	10	16	4	-	30
	ALL SPECIES (1)	30	39	23	-	92
BUREAU OF LAND MGMT	BLUE OAK	-	-	-	-	1
	COAST LIVE OAK	1	1	-	-	1
	ALL SPECIES (1)	1	1	1	-	2
CA DEPT OF PARKS & REC	BLUE OAK	-	1	-	-	1
	ALL SPECIES (1)	-	1	-	-	2
ALL OWNERS (1)	BLUE OAK	16	16	7	-	39
	VALLEY OAK	4	8	13	-	25
	COAST LIVE OAK	11	17	4	-	31
	ALL SPECIES (1)	31	41	24	-	96

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-20. HARDWOOD RANGELAND ACRES FOR MONTEREY (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	176	126	29	-	332
	BLUE OAK-FOOTHILL PINE	36	26	13	4	78
	VALLEY OAK	5	4	2	3	14
	COAST LIVE OAK	75	46	20	10	150
	INTERIOR/CANYON LIVE OAK	4	5	10	4	22
	MONTANE HARDWOOD MIX	3	10	3	3	19
	ALL SPECIES (1)	299	216	76	23	614
BUREAU OF LAND MGMT	BLUE OAK	18	13	3	-	34
	BLUE OAK-FOOTHILL PINE	1	2	-	-	3
	VALLEY OAK	-	1	-	-	1
	COAST LIVE OAK	3	3	1	-	7
	MONTANE HARDWOOD MIX	-	1	-	-	2
	ALL SPECIES (1)	23	20	3	-	47
DEPT OF DEFENSE	BLUE OAK	21	33	11	-	66
	BLUE OAK-FOOTHILL PINE	2	1	1	-	4
	VALLEY OAK	1	-	-	-	1
	COAST LIVE OAK	2	7	13	-	21
	INTERIOR/CANYON LIVE OAK	7	6	2	-	15
	ALL SPECIES (1)	33	46	28	-	107
CALIFORNIA DEPT OF PARKS & REC	BLUE OAK	1	2	-	-	3
	ALL SPECIES (1)	1	2	-	-	3
FOREST SERVICE RESERVED	BLUE OAK	9	18	1	-	28
	BLUE OAK-FOOTHILL PINE	-	-	-	1	1
	VALLEY OAK	1	7	-	-	8
	COAST LIVE OAK	2	2	-	-	4
	INTERIOR/CANYON LIVE OAK	1	-	8	3	12
	MONTANE HARDWOOD MIX	-	-	3	-	3
	ALL SPECIES (1)	13	27	12	4	55
FOREST SERVICE UNRESERVED	BLUE OAK	8	9	-	-	18
	BLUE OAK-FOOTHILL PINE	-	1	-	-	2
	VALLEY OAK	3	2	5	-	10
	COAST LIVE OAK	3	9	5	-	17
	INTERIOR/CANYON LIVE OAK	11	10	3	9	33
	ALL SPECIES (1)	26	32	13	9	80
OTHER PUBLIC RESERVED	BLUE OAK	3	4	1	-	7
	COAST LIVE OAK	4	2	1	-	7
	ALL SPECIES (1)	7	6	2	1	15
ALL OWNERS (1)	BLUE OAK	236	205	45	-	487
	BLUE OAK-FOOTHILL PINE	39	29	14	4	87
	VALLEY OAK	10	14	7	3	33
	COAST LIVE OAK	89	69	39	10	207
	INTERIOR/CANYON LIVE OAK	23	21	22	16	83
	MONTANE HARDWOOD MIX	3	11	6	3	23
	ALL SPECIES (1)	401	349	133	38	921

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-20. (continued) HARDWOOD RANGELANDS ACRES FOR MONTEREY (THOUSANDS OF ACRES)

- (1) TOTALS MAY BE OFF DUE TO ROUNDING
- (2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT
- (3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED
- (4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-21. HARDWOOD RANGELAND ACRES FOR NAPA (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	-	4	8	8	20
	BLUE OAK-FOOTHILL PINE	-	11	6	5	22
	VALLEY OAK	-	1	-	-	1
	COAST LIVE OAK	-	-	2	2	4
	INTERIOR/CANYON LIVE OAK	-	2	3	3	8
	MONTANE HARDWOOD MIX	1	6	21	59	87
	ALL SPECIES (1)	2	25	41	76	143
BUREAU OF LAND MGMT	BLUE OAK	-	-	-	2	3
	BLUE OAK-FOOTHILL PINE	-	3	2	2	6
	MONTANE HARDWOOD MIX	-	-	-	3	3
	ALL SPECIES (1)	-	3	3	7	12
OTHER PUBLIC UNRESERVED	BLUE OAK	-	-	-	-	1
	BLUE OAK-FOOTHILL PINE	-	-	-	-	1
	MONTANE HARDWOOD MIX	-	-	-	2	2
	ALL SPECIES (1)	-	-	1	2	3
ALL OWNERS (1)	BLUE OAK	-	4	9	10	23
	BLUE OAK-FOOTHILL PINE	-	14	9	7	30
	VALLEY OAK	-	1	-	-	1
	COAST LIVE OAK	-	-	2	2	4
	INTERIOR/CANYON LIVE OAK	-	2	3	3	8
	MONTANE HARDWOOD MIX	1	6	21	64	92
	ALL SPECIES (1)	2	28	44	85	159

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-22. HARDWOOD RANGELAND ACRES FOR NEVADA (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK-FOOTHILL PINE	3	1	4	-	9
	INTERIOR/CANYON LIVE OAK	22	18	27	44	111
	MONTANE HARDWOOD MIX	-	-	-	6	6
	ALL SPECIES (1)	26	19	31	50	126
BUREAU OF LAND MGMT	INTERIOR/CANYON LIVE OAK	-	1	1	2	4
	ALL SPECIES (1)	-	1	1	2	4
DEPT OF DEFENSE	INTERIOR/CANYON LIVE OAK	-	-	-	-	1
	ALL SPECIES (1)	-	-	-	-	1
CA DEPT OF PARKS & REC	INTERIOR/CANYON LIVE OAK	1	-	1	2	4
	ALL SPECIES (1)	1	-	1	2	4
FOREST SERVICE UNRESERVED	INTERIOR/CANYON LIVE OAK	-	-	3	2	5
	ALL SPECIES (1)	-	-	3	2	5
ALL OWNERS (1)	BLUE OAK-FOOTHILL PINE	3	1	4	-	9
	INTERIOR/CANYON LIVE OAK	23	19	31	50	124
	MONTANE HARDWOOD MIX	-	-	-	6	6
	ALL SPECIES (1)	27	21	36	56	139

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-23. HARDWOOD RANGELAND ACRES FOR ORANGE (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	COAST LIVE OAK	32	1	-	-	33
	ALL SPECIES (1)	32	1	-	-	33
FOREST SERVICE UNRESERVED	COAST LIVE OAK	7	-	-	-	7
	ALL SPECIES (1)	7	-	-	-	7
ALL OWNERS (1)	COAST LIVE OAK	39	1	-	-	40
	ALL SPECIES (1)	39	1	-	-	40

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-24. HARDWOOD RANGELAND ACRES FOR PLACER (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK-FOOTHILL PINE	4	1	-	-	5
	INTERIOR/CANYON LIVE OAK	5	24	38	22	89
	ALL SPECIES (1)	8	26	38	22	94
BUREAU OF LAND MGMT	INTERIOR/CANYON LIVE OAK	-	1	4	4	9
	ALL SPECIES (1)	-	1	4	4	9
FOREST SERVICE UNRESERVED	INTERIOR/CANYON LIVE OAK	-	-	-	1	2
	ALL SPECIES (1)	-	-	-	1	2
ALL OWNERS (1)	BLUE OAK-FOOTHILL PINE	4	1	-	-	5
	INTERIOR/CANYON LIVE OAK	5	26	42	27	100
	ALL SPECIES (1)	8	27	42	27	105

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-25. HARDWOOD RANGELAND ACRES FOR RIVERSIDE (THOUSANDS OF ACRES)

% CANOPY COVER

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	COAST LIVE OAK	9	1	-	-	10
	INTERIOR/CANYON LIVE OAK	3	-	-	-	3
	ALL SPECIES (1)	12	1	-	-	13
BUREAU OF LAND MGMT	COAST LIVE OAK	3	-	-	-	3
	INTERIOR/CANYON LIVE OAK	5	-	-	-	5
	ALL SPECIES (1)	8	-	-	-	8
FOREST SERVICE RESERVED	COAST LIVE OAK	5	-	-	-	6
	INTERIOR/CANYON LIVE OAK	10	-	-	-	10
	ALL SPECIES (1)	15	-	1	-	16
FOREST SERVICE UNRESERVED	COAST LIVE OAK	15	5	4	-	24
	INTERIOR/CANYON LIVE OAK	3	-	-	-	3
	ALL SPECIES (1)	18	5	4	-	26
OTHER PUBLIC UNRESERVED	COAST LIVE OAK	2	-	-	-	2
	INTERIOR/CANYON LIVE OAK	7	-	-	-	7
	ALL SPECIES (1)	9	-	-	-	9
ALL OWNERS (1)	COAST LIVE OAK	34	6	4	-	44
	INTERIOR/CANYON LIVE OAK	27	-	-	-	28
	ALL SPECIES (1)	61	6	5	-	72

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-26. HARDWOOD RANGELAND ACRES FOR SACRAMENTO (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	5	2	1	-	8
	BLUE OAK-FOOTHILL PINE	6	-	-	-	7
	INTERIOR/CANYON LIVE OAK	4	2	2	-	9
	ALL SPECIES (1)	15	5	3	-	23
ALL OWNERS (1)	BLUE OAK	5	2	1	-	8
	BLUE OAK-FOOTHILL PINE	6	-	-	-	7
	INTERIOR/CANYON LIVE OAK	4	2	2	-	9
	ALL SPECIES (1)	15	5	3	-	23

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-27. HARDWOOD RANGELAND ACRES FOR SAN BENITO (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	11	11	16	-	39
	BLUE OAK-FOOTHILL PINE	69	62	15	-	146
	VALLEY OAK	7	2	1	-	9
	COAST LIVE OAK	51	65	45	2	163
	MONTANE HARDWOOD MIX	-	-	2	1	3
	ALL SPECIES (1)	138	140	78	3	359
BUREAU OF LAND MGMT	BLUE OAK	-	-	1	-	1
	BLUE OAK-FOOTHILL PINE	32	32	6	-	70
	COAST LIVE OAK	1	3	1	-	4
	ALL SPECIES (1)	33	35	7	-	75
CA DEPT OF PARKS & REC	COAST LIVE OAK	-	-	1	-	2
	ALL SPECIES (1)	-	-	1	-	2
OTHER PUBLIC UNRESERVED	BLUE OAK-FOOTHILL PINE	-	1	-	-	1
	ALL SPECIES (1)	-	1	-	-	1
ALL OWNERS (1)	BLUE OAK	11	12	16	-	39
	BLUE OAK-FOOTHILL PINE	101	94	21	-	217
	VALLEY OAK	7	2	1	-	9
	COAST LIVE OAK	52	68	46	2	169
	MONTANE HARDWOOD MIX	-	-	2	1	3
	ALL SPECIES (1)	172	176	86	3	437

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-28. HARDWOOD RANGELAND ACRES FOR SAN BERNARDINO (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (
		< 10	10-33	34-75	76-100	
PRIVATE	COAST LIVE OAK	6	-	-	-	6
	INTERIOR/CANYON LIVE OAK	5	-	-	-	5
	ALL SPECIES (1)	10	1	-	-	11
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK	1	-	-	-	1
	ALL SPECIES (1)	1	-	-	-	1
FOREST SERVICE UNRESERVED	INTERIOR/CANYON LIVE OAK	6	-	-	-	6
	ALL SPECIES (1)	6	-	-	-	6
ALL OWNERS (1)	COAST LIVE OAK	6	-	-	-	6
	INTERIOR/CANYON LIVE OAK	12	1	-	-	12
	ALL SPECIES (1)	17	1	-	-	18

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-29. HARDWOOD RANGELAND ACRES FOR SAN DIEGO (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	COAST LIVE OAK	105	31	10	1	147
	INTERIOR/CANYON LIVE OAK	1	8	-	-	9
	MONTANE HARDWOOD MIX	-	4	2	-	6
	ALL SPECIES (1)	105	44	12	1	163
BUREAU OF LAND MGMT	COAST LIVE OAK	8	-	-	-	8
	INTERIOR/CANYON LIVE OAK	-	3	-	-	3
	ALL SPECIES (1)	8	3	-	-	11
DEPT OF DEFENSE	COAST LIVE OAK	7	1	-	-	7
	ALL SPECIES (1)	7	1	-	-	7
CA DEPT OF PARKS & REC	COAST LIVE OAK	11	1	-	-	13
	INTERIOR/CANYON LIVE OAK	-	2	1	-	4
	ALL SPECIES (1)	12	3	1	-	16
FOREST SERVICE RESERVED	COAST LIVE OAK	9	6	1	-	16
	ALL SPECIES (1)	9	6	1	-	16
FOREST SERVICE UNRESERVED	COAST LIVE OAK	58	7	3	-	68
	INTERIOR/CANYON LIVE OAK	-	1	-	-	1
	ALL SPECIES (1)	58	8	3	-	69
OTHER PUBLIC UNRESERVED	COAST LIVE OAK	20	9	6	-	35
	INTERIOR/CANYON LIVE OAK	-	2	-	-	2
	ALL SPECIES (1)	20	11	6	-	37
ALL OWNERS (1)	COAST LIVE OAK	217	56	20	2	294
	INTERIOR/CANYON LIVE OAK	1	17	1	-	19
	MONTANE HARDWOOD MIX	-	4	2	-	7
	ALL SPECIES (1)	218	77	24	2	320

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-30. HARDWOOD RANGELAND ACRES FOR SAN JOAQUIN (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	16	1	1	-	18
	BLUE OAK-FOOTHILL PINE	4	8	7	2	22
	ALL SPECIES (1)	20	9	8	2	39
ALL OWNERS (1)	BLUE OAK	16	1	1	-	18
	BLUE OAK-FOOTHILL PINE	4	8	7	2	22
	ALL SPECIES (1)	20	9	8	2	39

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-31. HARDWOOD RANGELAND ACRES FOR SAN LUIS OBISPO (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	< 10	% CANOPY COVER			TOTAL (1)
			10-33	34-75	76-100	
PRIVATE	BLUE OAK	126	55	11	1	193
	BLUE OAK-FOOTHILL PINE	23	15	33	4	75
	VALLEY OAK	7	1	-	-	8
	COAST LIVE OAK	93	110	88	21	312
	ALL SPECIES (1)	248	181	134	25	588
BUREAU OF LAND MGMT	BLUE OAK	13	3	-	-	17
	BLUE OAK-FOOTHILL PINE	2	1	1	-	4
	COAST LIVE OAK	2	1	3	1	8
	ALL SPECIES (1)	16	5	5	1	28
DEPT OF DEFENSE	BLUE OAK	9	6	3	-	18
	BLUE OAK-FOOTHILL PINE	-	2	-	-	2
	COAST LIVE OAK	-	2	-	-	2
	ALL SPECIES (1)	9	10	3	-	21
CA DEPT PARKS & REC	COAST LIVE OAK	-	-	1	-	2
	ALL SPECIES (1)	-	-	1	-	2
FOREST SERVICE RESERVED	BLUE OAK	2	5	5	-	12
	COAST LIVE OAK	4	4	7	-	15
	ALL SPECIES (1)	6	9	11	-	26
FOREST SERVICE UNRESERVED	BLUE OAK	19	21	5	-	45
	COAST LIVE OAK	6	5	2	-	13
	ALL SPECIES (1)	25	26	6	-	57
OTHER PUBLIC UNRESERVED	ALL SPECIES (1)	-	1	-	-	1
ALL OWNERS (1)	BLUE OAK	169	90	24	1	284
	BLUE OAK-FOOTHILL PINE	25	17	35	4	80
	VALLEY OAK	7	1	-	-	8
	COAST LIVE OAK	105	122	101	22	351
	ALL SPECIES (1)	306	231	160	27	724

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY; REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-32. HARDWOOD RANGELAND ACRES FOR SAN MATEO (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	COAST LIVE OAK	3	1	3	-	7
	MONTANE HARDWOOD MIX	-	3	-	-	4
	ALL SPECIES (1)	3	4	3	-	11
ALL OWNERS (1)	COAST LIVE OAK	3	1	4	-	7
	MONTANE HARDWOOD MIX	-	3	-	-	4
	ALL SPECIES (1)	3	4	4	-	11

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-33. HARDWOOD RANGELAND ACRES FOR SANTA BARBARA (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	10	2	2	-	14
	BLUE OAK-FOOTHILL PINE	4	-	-	-	4
	VALLEY OAK	6	17	-	-	24
	COAST LIVE OAK	110	70	20	14	215
	ALL SPECIES (1)	130	90	22	14	257
BUREAU OF LAND MGMT	COAST LIVE OAK	-	-	-	-	1
	ALL SPECIES (1)	-	-	-	-	1
DEPT OF DEFENSE	COAST LIVE OAK	8	8	1	1	18
	ALL SPECIES (1)	8	8	1	1	18
CA DEPT OF PARKS & REC	COAST LIVE OAK	2	-	-	-	2
	ALL SPECIES (1)	2	-	-	-	2
FOREST SERVICE RESERVED	COAST LIVE OAK	6	-	-	-	6
	ALL SPECIES (1)	6	1	-	-	6
FOREST SERVICE UNRESERVED	BLUE OAK	9	5	1	-	15
	BLUE OAK-FOOTHILL PINE	3	1	-	-	3
	COAST LIVE OAK	18	16	4	2	40
	ALL SPECIES (1)	29	22	5	2	58
OTHER PUBLIC UNRESERVED	VALLEY OAK	1	-	-	-	1
	COAST LIVE OAK	-	1	-	-	2
	ALL SPECIES (1)	1	2	-	-	3
ALL OWNERS (1)	BLUE OAK	19	7	3	-	30
	BLUE OAK-FOOTHILL PINE	7	1	-	-	8
	VALLEY OAK	7	18	-	-	25
	COAST LIVE OAK	144	97	26	17	282
	ALL SPECIES (1)	176	123	29	17	345

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

OWNER	WOODLAND TYPE
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

UNRESERVED	RESERVED
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-34. HARDWOOD RANGELAND ACRES FOR SANTA CLARA (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	3	4	1	2	10
	BLUE OAK-FOOTHILL PINE	20	23	10	1	54
	VALLEY OAK	32	18	8	3	60
	COAST LIVE OAK	43	50	50	9	153
	INTERIOR/CANYON LIVE OAK	1	-	-	-	1
	ALL SPECIES (1)	99	94	69	15	278
BUREAU OF LAND MGMT	COAST LIVE OAK	-	1	-	-	1
	ALL SPECIES (1)	-	1	-	-	1
CA DEPT OF PARKS & REC	COAST LIVE OAK	15	6	8	1	30
	ALL SPECIES (1)	15	6	8	1	30
OTHER PUBLIC RESERVED	VALLEY OAK	3	-	1	-	3
	COAST LIVE OAK	-	4	1	-	5
	ALL SPECIES (1)	3	4	1	-	9
OTHER PUBLIC UNRESERVED	BLUE OAK-FOOTHILL PINE	2	-	1	-	3
	ALL SPECIES (1)	2	-	1	-	3
ALL OWNERS (1)	BLUE OAK	3	4	1	2	11
	BLUE OAK-FOOTHILL PINE	22	23	11	1	57
	VALLEY OAK	34	18	8	3	63
	COAST LIVE OAK	58	61	59	10	189
	INTERIOR/CANYON LIVE OAK	1	-	-	-	1
	ALL SPECIES (1)	118	106	80	17	321

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-35. HARDWOOD RANGELAND ACRES FOR SANTA CRUZ (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	COAST LIVE OAK	1	-	6	1	7
	INTERIOR/CANYON LIVE OAK	6	2	-	1	9
	ALL SPECIES (1)	7	2	6	1	16
CA DEPT OF PARKS & REC	INTERIOR/CANYON LIVE OAK	4	-	-	-	4
	ALL SPECIES (1)	4	-	-	-	4
ALL OWNERS (1)	COAST LIVE OAK	1	-	6	1	7
	INTERIOR/CANYON LIVE OAK	9	2	1	1	12
	ALL SPECIES (1)	11	2	6	1	20

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-36. HARDWOOD RANGELAND ACRES FOR SHASTA (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	29	19	21	-	69
	BLUE OAK-FOOTHILL PINE	59	73	73	2	206
	INTERIOR/CANYON LIVE OAK	1	4	-	-	4
	ALL SPECIES (1)	88	96	94	2	279
BUREAU OF LAND MGMT	BLUE OAK	1	-	-	-	1
	BLUE OAK-FOOTHILL PINE	1	1	3	-	5
	ALL SPECIES (1)	2	1	3	-	6
OTHER PUBLIC RESERVED	BLUE OAK-FOOTHILL PINE	-	-	1	-	1
	ALL SPECIES (1)	-	-	1	-	1
ALL OWNERS (1)	BLUE OAK	15	19	21	-	55
	BLUE OAK-FOOTHILL PINE	60	74	76	2	212
	INTERIOR/CANYON LIVE OAK	1	4	-	-	4
	ALL SPECIES (1)	75	97	97	2	287

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-37. HARDWOOD RANGELAND ACRES FOR SIERRA (THOUSANDS OF ACRES)

% CANOPY COVER

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	INTERIOR/CANYON LIVE OAK	-	-	-	1	1
	ALL SPECIES (1)	-	-	-	1	1
FOREST SERVICE UNRESERVED	INTERIOR/CANYON LIVE OAK	-	-	-	1	2
	ALL SPECIES (1)	-	-	-	1	2
ALL OWNERS (1)	INTERIOR/CANYON LIVE OAK	-	-	1	2	3
	ALL SPECIES (1)	-	-	1	2	3

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-38. HARDWOOD RANGELAND ACRES FOR SOLANO (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	COAST LIVE OAK	-	2	7	-	8
	INTERIOR/CANYON LIVE OAK	-	2	5	4	10
	MONTANE HARDWOOD MIX	3	5	3	13	23
	ALL SPECIES (1)	3	9	14	17	42
BUREAU OF LAND MGMT	COAST LIVE OAK	-	-	1	-	1
	MONTANE HARDWOOD MIX	-	-	-	2	2
	ALL SPECIES (1)	-	-	1	2	3
ALL OWNERS (1)	COAST LIVE OAK	-	2	8	-	9
	INTERIOR/CANYON LIVE OAK	-	2	5	4	10
	MONTANE HARDWOOD MIX	3	5	3	15	25
	ALL SPECIES (1)	3	9	15	19	45

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-39. HARDWOOD RANGELAND ACRES FOR SONOMA (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	COAST LIVE OAK	27	27	32	15	101
	INTERIOR/CANYON LIVE OAK	10	12	33	15	69
	MONTANE HARDWOOD MIX	5	4	5	10	25
	ALL SPECIES (1)	42	43	70	40	195
BUREAU OF LAND MGMT	INTERIOR/CANYON LIVE OAK	-	-	2	1	3
	ALL SPECIES (1)	-	-	2	1	3
DEPT OF DEFENSE	COAST LIVE OAK	1	1	1	-	3
	INTERIOR/CANYON LIVE OAK	2	1	-	1	4
	ALL SPECIES (1)	3	2	1	1	7
CA DEPT OF PARKS & REC	COAST LIVE OAK	-	1	1	3	4
	MONTANE HARDWOOD MIX	-	-	-	1	1
	ALL SPECIES (1)	-	1	1	4	6
OTHER PUBLIC UNRESERVED	COAST LIVE OAK	-	-	-	-	1
	ALL SPECIES (1)	-	-	-	-	1
ALL OWNERS (1)	COAST LIVE OAK	28	29	34	18	110
	INTERIOR/CANYON LIVE OAK	12	13	34	16	76
	MONTANE HARDWOOD MIX	5	4	5	11	26
	ALL SPECIES (1)	45	47	74	46	211

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-40. HARDWOOD RANGELAND ACRES FOR STANISLAUS (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	45	12	9	1	67
	BLUE OAK-FOOTHILL PINE	33	15	4	-	52
	VALLEY OAK	6	-	-	-	6
	COAST LIVE OAK	-	1	-	-	1
	ALL SPECIES (1)	84	29	14	1	127
BUREAU OF LAND MGMT	BLUE OAK	-	-	1	-	1
	BLUE OAK-FOOTHILL PINE	1	-	-	-	2
	ALL SPECIES (1)	1	-	1	-	2
CA DEPT PARKS & REC	BLUE OAK	4	-	-	-	4
	BLUE OAK-FOOTHILL PINE	8	1	-	-	9
	COAST LIVE OAK	3	-	-	-	3
	ALL SPECIES (1)	14	1	-	-	16
ALL OWNERS (1)	BLUE OAK	49	12	10	1	72
	BLUE OAK-FOOTHILL PINE	42	17	4	-	63
	VALLEY OAK	6	-	-	-	6
	COAST LIVE OAK	3	1	-	-	4
	ALL SPECIES (1)	99	30	15	1	145

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPARTMENT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-41. HARDWOOD RANGELAND ACRES FOR TEHAMA (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	122	70	44	1	237
	BLUE OAK-FOOTHILL PINE	85	99	85	3	271
	VALLEY OAK	-	-	2	-	2
	INTERIOR/CANYON LIVE OAK	-	4	9	1	13
	ALL SPECIES (1)	207	173	140	5	524
BUREAU OF LAND MGMT	BLUE OAK	4	2	-	-	6
	BLUE OAK-FOOTHILL PINE	3	2	1	-	7
	INTERIOR/CANYON LIVE OAK	-	-	1	-	1
	ALL SPECIES (1)	7	4	2	-	13
DEPT OF DEFENSE	BLUE OAK	-	1	-	-	1
	ALL SPECIES (1)	-	1	-	-	1
FOREST SERVICE RESERVED	BLUE OAK	21	-	-	-	21
	BLUE OAK-FOOTHILL PINE	6	9	4	-	18
	INTERIOR/CANYON LIVE OAK	-	-	1	-	1
	ALL SPECIES (1)	27	9	4	-	40
FOREST SERVICE UNRESERVED	BLUE OAK	5	-	-	-	5
	BLUE OAK-FOOTHILL PINE	8	4	1	-	13
	ALL SPECIES (1)	12	4	1	-	18
OTHER PUBLIC RESERVED	BLUE OAK	12	-	-	-	12
	BLUE OAK-FOOTHILL PINE	9	10	3	-	22
	INTERIOR/CANYON LIVE OAK	-	-	2	-	2
	ALL SPECIES (1)	21	10	5	-	36
OTHER PUBLIC UNRESERVED	BLUE OAK	1	-	-	-	1
	ALL SPECIES (1)	1	-	-	-	1
ALL OWNERS (1)	BLUE OAK	164	73	44	1	282
	BLUE OAK-FOOTHILL PINE	111	124	94	3	332
	VALLEY OAK	-	-	2	-	3
	INTERIOR/CANYON LIVE OAK	-	4	12	1	17
	ALL SPECIES (1)	275	200	152	5	633

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

OWNER	WOODLAND TYPE
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

UNRESERVED	RESERVED
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-42. HARDWOOD RANGELAND ACRES FOR TRINITY (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	COAST LIVE OAK	-	-	7	-	7
	MONTANE HARDWOOD MIX	1	1	7	4	12
	ALL SPECIES (1)	1	1	14	4	20
ALL OWNERS (1)	COAST LIVE OAK	-	-	7	-	7
	MONTANE HARDWOOD MIX	1	1	7	4	13
	ALL SPECIES (1)	1	1	14	4	20

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-43. HARDWOOD RANGELAND ACRES FOR TULARE (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	137	114	64	5	320
	BLUE OAK-FOOTHILL PINE	6	35	5	-	46
	INTERIOR/CANYON LIVE OAK	4	19	3	-	26
	ALL SPECIES (1)	147	168	72	5	392
BUREAU OF LAND MGMT	BLUE OAK	7	2	1	1	10
	BLUE OAK-FOOTHILL PINE	4	8	-	-	12
	INTERIOR/CANYON LIVE OAK	-	-	-	-	1
	ALL SPECIES (1)	11	10	2	1	23
DEPT OF DEFENSE	BLUE OAK	-	-	-	-	1
	ALL SPECIES (1)	-	-	-	-	1
FOREST SERVICE RESERVED	BLUE OAK	1	-	-	-	1
	INTERIOR/CANYON LIVE OAK	2	5	2	-	9
	ALL SPECIES (1)	3	5	2	-	10
FOREST SERVICE UNRESERVED	BLUE OAK	3	2	3	3	11
	BLUE OAK-FOOTHILL PINE	1	5	-	-	6
	INTERIOR/CANYON LIVE OAK	10	8	4	-	22
	ALL SPECIES (1)	14	14	7	3	39
OTHER PUBLIC RESERVED	BLUE OAK-FOOTHILL PINE	5	12	2	-	19
	INTERIOR/CANYON LIVE OAK	-	2	3	-	5
	ALL SPECIES (1)	6	14	5	-	25
OTHER PUBLIC UNRESERVED	BLUE OAK	6	1	2	5	14
	BLUE OAK-FOOTHILL PINE	13	12	-	-	25
	INTERIOR/CANYON LIVE OAK	-	5	1	-	6
	ALL SPECIES (1)	19	18	3	5	45
ALL OWNERS (1)	BLUE OAK	153	118	70	14	357
	BLUE OAK-FOOTHILL PINE	29	73	7	-	110
	INTERIOR/CANYON LIVE OAK	16	40	13	-	69
	ALL SPECIES (1)	199	232	90	14	536

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

OWNER	WOODLAND TYPE
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

UNRESERVED	RESERVED
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-44. HARDWOOD RANGELAND ACRES FOR TUOLUMNE (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	43	9	-	-	53
	BLUE OAK-FOOTHILL PINE	28	21	13	-	62
	INTERIOR/CANYON LIVE OAK	19	21	19	1	61
	ALL SPECIES (1)	90	52	32	1	175
BUREAU OF LAND MGMT	BLUE OAK	5	-	-	-	5
	BLUE OAK-FOOTHILL PINE	9	3	2	-	14
	INTERIOR/CANYON LIVE OAK	2	4	2	-	9
	ALL SPECIES (1)	16	7	4	-	27
DEPT OF DEFENSE	BLUE OAK	3	-	-	-	3
	BLUE OAK-FOOTHILL PINE	4	-	-	-	5
	INTERIOR/CANYON LIVE OAK	-	1	-	-	2
	ALL SPECIES (1)	8	1	-	-	10
FOREST SERVICE UNRESERVED	BLUE OAK-FOOTHILL PINE	2	2	1	-	5
	INTERIOR/CANYON LIVE OAK	3	8	5	-	16
	ALL SPECIES (1)	5	9	6	-	21
OTHER PUBLIC UNRESERVED	INTERIOR/CANYON LIVE OAK	-	-	-	-	1
	ALL SPECIES (1)	-	-	-	-	1
ALL OWNERS (1)	BLUE OAK	51	9	-	-	60
	BLUE OAK-FOOTHILL PINE	44	26	16	1	87
	INTERIOR/CANYON LIVE OAK	25	34	27	1	87
	ALL SPECIES (1)	119	70	43	2	234

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-45. HARDWOOD RANGELAND ACRES FOR VENTURA (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	-	7	-	-	7
	VALLEY OAK	7	-	1	-	8
	COAST LIVE OAK	39	8	7	6	59
	ALL SPECIES (1)	46	15	8	6	74
BUREAU OF LAND MGMT	COAST LIVE OAK	1	-	-	-	2
	ALL SPECIES (1)	1	-	-	-	2
FOREST SERVICE RESERVED	BLUE OAK	2	3	1	-	6
	COAST LIVE OAK	11	1	1	1	13
	ALL SPECIES (1)	13	4	1	1	19
FOREST SERVICE UNRESERVED	BLUE OAK-FOOTHILL PINE	-	-	1	-	1
	COAST LIVE OAK	9	4	1	-	14
	ALL SPECIES (1)	10	4	2	-	16
OTHER PUBLIC RESERVED	COAST LIVE OAK	1	-	-	-	2
	ALL SPECIES (1)	1	-	-	-	2
ALL OWNERS (1)	BLUE OAK	3	10	1	-	13
	BLUE OAK-FOOTHILL PINE	-	-	1	-	1
	VALLEY OAK	7	-	1	-	8
	COAST LIVE OAK	62	13	9	7	91
	ALL SPECIES (1)	71	23	12	7	113

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-46. HARDWOOD RANGELAND ACRES FOR YOLO (THOUSANDS OF ACRES)

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	4	24	13	2	45
	BLUE OAK-FOOTHILL PINE	-	6	18	11	35
	COAST LIVE OAK	-	-	3	-	3
	INTERIOR/CANYON LIVE OAK	-	-	5	4	9
	ALL SPECIES (1)	4	30	40	18	92
BUREAU OF LAND MGMT	BLUE OAK	-	-	-	1	1
	BLUE OAK-FOOTHILL PINE	-	1	2	3	6
	ALL SPECIES (1)	-	2	2	3	7
ALL OWNERS (1)	BLUE OAK	4	24	13	3	45
	BLUE OAK-FOOTHILL PINE	-	7	20	13	41
	COAST LIVE OAK	-	-	3	-	3
	INTERIOR/CANYON LIVE OAK	-	-	5	4	9
	ALL SPECIES (1)	4	32	42	21	99

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

TABLE B-47. HARDWOOD RANGELAND ACRES FOR YUBA (THOUSANDS OF ACRES)

% CANOPY COVER

OWNER (4)	WOODLAND TYPE (2,3)	% CANOPY COVER				TOTAL (1)
		< 10	10-33	34-75	76-100	
PRIVATE	BLUE OAK	-	1	1	-	1
	BLUE OAK-FOOTHILL PINE	1	6	-	1	8
	INTERIOR/CANYON LIVE OAK	9	20	29	14	72
	MONTANE HARDWOOD MIX	-	-	1	-	1
	ALL SPECIES (1)	10	27	30	15	82
BUREAU OF LAND MGMT	ALL SPECIES (1)	-	-	-	-	1
DEPT OF DEFENSE	ALL SPECIES (1)	-	-	-	-	1
CA DEPT OF PARKS & REC	BLUE OAK-FOOTHILL PINE	1	1	-	1	3
	INTERIOR/CANYON LIVE OAK	-	1	1	2	4
	ALL SPECIES (1)	1	1	1	3	7
OTHER PUBLIC UNRESERVED	BLUE OAK-FOOTHILL PINE	-	-	-	1	1
	INTERIOR/CANYON LIVE OAK	2	-	2	-	3
	ALL SPECIES (1)	2	-	2	1	5
ALL OWNERS (1)	BLUE OAK	-	1	1	-	2
	BLUE OAK-FOOTHILL PINE	2	7	-	4	12
	INTERIOR/CANYON LIVE OAK	11	21	32	16	80
	MONTANE HARDWOOD MIX	-	-	1	-	1
	ALL SPECIES (1)	13	28	34	20	95

(1) TOTALS MAY BE OFF DUE TO ROUNDING

(2) ABSENCE OF AN OWNER/WOODLAND TYPE COMBINATION INDICATES LESS THAN 500 ACRES PRESENT

(3) ONLY HARDWOODS BELOW 5000 FOOT ELEVATION WERE MAPPED

(4) THE POSSIBLE OWNER AND WOODLAND TYPES ARE:

<u>OWNER</u>	<u>WOODLAND TYPE</u>
PRIVATE	BLUE OAK
BUREAU OF LAND MGMT	BLUE OAK-FOOTHILL PINE
DEPT OF DEFENSE	VALLEY OAK
CA DEPT OF PARKS & REC	COAST LIVE OAK
FOREST SERVICE RESERVED	INTERIOR/CANYON LIVE OAK
FOREST SERVICE UNRESERVED	MONTANE HARDWOOD MIX
OTHER PUBLIC RESERVED	
OTHER PUBLIC UNRESERVED	

OWNERSHIPS WITHIN THE "OTHER PUBLIC" CLASSES:

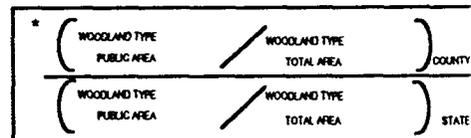
<u>UNRESERVED</u>	<u>RESERVED</u>
BUREAU OF INDIAN AFFAIRS	NATIONAL PARK SERVICE
BUREAU OF RECLAMATION	COUNTY, CITY, REGIONAL PARKS
COUNTY, CITY, REGIONAL LANDS	CA DEPT OF FISH & GAME
CA DEPT OF FORESTRY	FISH & WILDLIFE SERVICE
OTHER STATE LANDS	
DEPT OF DEFENSE	

Source: Pillsbury, 1991, and FRRAP Information and Analysis System

APPENDIX C: ANALYSIS OF COUNTY OWNERSHIP AND RESERVED STATUS OF HARDWOOD COVER TYPES

TABLE C-1a. CONCENTRATION* OF PUBLICLY OWNED HARDWOOD RANGELANDS RELATIVE TO STATE AVERAGE, BY COUNTY

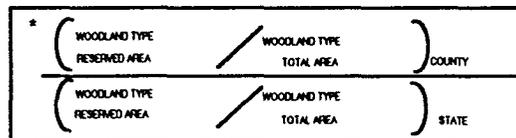
COUNTY	RELATIVE CONCENTRATION PUBLIC HARDWOOD RANGELANDS
SAN JOAQUIN	0.0
HUMBOLDT	<.1
TRINITY	0.1
SACRAMENTO	0.1
SAN MATEO	0.1
SHASTA	0.1
ALAMEDA	0.1
MARIN	0.2
AMADOR	0.2
MERCED	0.2
EL DORADO	0.3
SOLANO	0.3
YOLO	0.4
MADERA	0.4
SONOMA	0.4
MENDOCINO	0.5
BUTTE	0.5
CALAVERAS	0.5
NEVADA	0.5
NAPA	0.5
GLENN	0.5
KINGS	0.5
COLUSA	0.5
PLACER	0.6
MARIPOSA	0.7
STANISLAUS	0.7
SANTA CLARA	0.7
YUBA	0.7
CONTRA COSTA	0.7
TEHEMA	0.9
SAN BENITO	0.9
ORANGE	1.0
SAN LUIS OBISPO	1.0
LAKE	1.0
SANTA CRUZ	1.1
KERN	1.2
TUOLUMNE	1.3
SANTA BARBARA	1.4
TULARE	1.4
FRESNO	1.4
MONTEREY	1.8
VENTURA	1.8
SAN BERNARDINO	2.1
SAN DIEGO	2.6
LOS ANGELES	2.9
SIERRA	3.5
RIVERSIDE	4.4



Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-1b. CONCENTRATION* OF RESERVED HARDWOOD RANGELANDS RELATIVE TO STATE AVERAGE, BY COUNTY

COUNTY	RELATIVE CONCENTRATION RESERVED HARDWOOD RANGELANDS
SAN JOAQUIN	0.0
KINGS	0.0
GLENN	0.0
ORANGE	0.0
SACRAMENTO	0.0
AMADOR	0.0
CALAVERAS	0.0
SIERRA	0.0
YOLO	0.0
HUMBOLDT	0.0
TRINITY	0.0
SOLANO	0.0
LAKE	0.0
TUOLUMNE	<.1
MENDOCINO	<.1
KERN	<.1
COLUSA	<.1
MARIPOSA	<.1
NAPA	<.1
PLACER	<.1
SHASTA	0.1
SAN BENITO	0.1
EL DORADO	0.2
MADERA	0.3
FRESNO	0.3
LOS ANGELES	0.4
MERCED	0.4
ALAMEDA	0.6
SAN MATEO	0.6
SANTA BARBARA	0.6
SONOMA	0.7
NEVADA	0.7
BUTTE	0.8
MARIN	0.8
SAN LUIS OBISPO	<1.0
SAN BERNARDINO	1.4
TULARE	1.7
YUBA	1.8
MONTEREY	2.0
SAN DIEGO	2.5
STANISLAUS	2.7
TEHAMA	3.0
SANTA CLARA	3.0
CONTRA COSTA	3.5
VENTURA	4.7
SANTA CRUZ	5.0
RIVERSIDE	5.4



Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-1c. AREA OF RESERVED HARDWOOD RANGELANDS NEEDED TO ATTAIN LEVEL OF PROTECTION EQUAL TO STATE AVERAGE, BY COUNTY

COUNTY	ADDITIONAL RESERVED ACRES NEEDED
KERN	28850.8
SAN BENITO	15787.7
MENDOCINO	15033.4
FRESNO	13882.2
CALAVERAS	12747.2
MARIPOSA	11753.3
SHASTA	10224.3
TUOLUMNE	9443.5
MADERA	8362.2
AMADOR	7185.8
NAPA	6215.6
COLUSA	5896.0
SANTA BARBARA	5806.8
EL DORADO	5676.0
GLENN	5346.0
LAKE	4812.1
PLACER	4023.0
YOLO	3988.0
SONOMA	2909.8
ALAMEDA	2369.6
MERCED	2177.2
HUMBOLDT	2135.3
BUTTE	2093.1
NEVADA	1852.0
LOS ANGELES	1818.7
SOLANO	1804.6
ORANGE	1619.4
SAN JOAQUIN	1579.8
SACRAMENTO	939.2
SAN LUIS OBISPO	937.5
TRINITY	806.3
KINGS	659.3
MARIN	447.8
SAN MATEO	186.8
SIERRA	103.0
CONTRA COSTA	0.0
VENTURA	0.0
STANISLAUS	0.0
SAN BERNARDINO	0.0
TEHAMA	0.0
TULARE	0.0
SANTA CRUZ	0.0
RIVERSIDE	0.0
SANTA CLARA	0.0
YUBA	0.0
SAN DIEGO	0.0
MONTEREY	0.0

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-1d. AREA OF PRIVATELY OWNED HARDWOOD RANGELANDS THAT WOULD NEED TO BE RESERVED TO ATTAIN LEVEL OF PROTECTION EQUAL TO STATE AVERAGE, BY COUNTY

COUNTY	ADDITIONAL PRIVATE ACRES NEEDED
SHASTA	4539.3
HUMBOLDT	1810.3
ALAMEDA	1696.6
SAN JOAQUIN	1579.8
AMADOR	1108.8
SACRAMENTO	619.2
TRINITY	536.3
MARIN	447.9
SAN MATEO	186.8
KERN	0.0
FRESNO	0.0
SAN BENITO	0.0
CALAVERAS	0.0
TULARE	0.0
MARIPOSA	0.0
TUOLUMNE	0.0
MENDOCINO	0.0
MADERA	0.0
COLUSA	0.0
SANTA BARBARA	0.0
EL DORADO	0.0
GLENN	0.0
LAKE	0.0
PLACER	0.0
YOLO	0.0
SAN LUIS OBISPO	0.0
SONOMA	0.0
BUTTE	0.0
NAPA	0.0
MONTEREY	0.0
SANTA CLARA	0.0
MERCED	0.0
LOS ANGELES	0.0
ORANGE	0.0
NEVADA	0.0
SOLANO	0.0
KINGS	0.0
STANISLAUS	0.0
VENTURA	0.0
SANTA CRUZ	0.0
SAN BERNARDINO	0.0
SIERRA	0.0
TEHAMA	0.0
RIVERSIDE	0.0
SAN DIEGO	0.0
YUBA	0.0
CONTRA COSTA	0.0

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-2a. CONCENTRATION* OF PUBLICLY OWNED BLUE OAK WOODLAND RELATIVE TO STATE AVERAGE, BY COUNTY

COUNTY	RELATIVE CONCENTRATION PUBLIC BLUE OAK WOODLAND
HUMBOLDT	.
TRINITY	.
SAN MATEO	.
MARIN	.
SOLANO	.
SONOMA	.
BUTTE	.
NEVADA	.
PLACER	.
ORANGE	.
SANTA CRUZ	.
SAN BERNARDINO	.
SAN DIEGO	.
SIERRA	.
SAN JOAQUIN	0.0
ALAMEDA	0.0
EL DORADO	0.0
SACRAMENTO	<.1
SHASTA	<.1
AMADOR	0.1
YOLO	0.1
MARIPOSA	0.1
SAN BENITO	0.1
CALAVERAS	0.2
MERCED	0.3
SANTA CLARA	0.3
STANISLAUS	0.3
MADERA	0.3
COLUSA	0.4
TULARE	0.4
GLENN	0.4
KINGS	0.5
LAKE	0.6
CONTRA COSTA	0.7
TUOLUMNE	0.7
NAPA	0.8
TEHAMA	0.9
FRESNO	1.1
KERN	1.2
YUBA	1.3
MONTEREY	1.8
SAN LUIS OBISPO	1.8
VENTURA	2.6
MENDOCINO	2.6
SANTA BARBARA	2.9
LOS ANGELES	3.6
RIVERSIDE	5.5

$$* \left(\frac{\text{WOODLAND TYPE PUBLIC AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right) \text{ COUNTY}$$

$$\left(\frac{\text{WOODLAND TYPE PUBLIC AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right) \text{ STATE}$$

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-2b. CONCENTRATION* OF RESERVED BLUE OAK WOODLAND RELATIVE TO STATE AVERAGE, BY COUNTY

COUNTY	RELATIVE CONCENTRATION RESERVED BLUE OAK WOODLAND
ORANGE	.
SIERRA	.
HUMBOLDT	.
TRINITY	.
SOLANO	.
PLACER	.
SAN MATEO	.
SONOMA	.
NEVADA	.
BUTTE	.
MARIN	.
SAN BERNARDINO	.
SAN DIEGO	.
SANTA CRUZ	.
SAN JOAQUIN	0.0
KINGS	0.0
GLENN	0.0
SACRAMENTO	0.0
AMADOR	0.0
CALAVERAS	0.0
YOLO	0.0
LAKE	0.0
TUOLUMNE	0.0
MENDOCINO	0.0
NAPA	0.0
SHASTA	0.0
EL DORADO	0.0
ALAMEDA	0.0
RIVERSIDE	0.0
KERN	<.1
LOS ANGELES	0.1
COLUSA	0.1
MARIPOSA	0.1
TULARE	0.1
FRESNO	0.1
SAN BENITO	0.2
SANTA BARBARA	0.3
MADERA	0.7
MERCED	1.0
SAN LUIS OBISPO	1.3
SANTA CLARA	<1.4
STANISLAUS	1.6
MONTEREY	2.5
TEHAMA	3.7
CONTRA COSTA	4.1
YUBA	7.8
VENTURA	14.1

*	$\left(\frac{\text{WOODLAND TYPE RESERVED AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right) \text{ COUNTY}$
	$\left(\frac{\text{WOODLAND TYPE RESERVED AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right) \text{ STATE}$

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-2c. AREA OF RESERVED BLUE OAK WOODLAND NEEDED TO ATTAIN LEVEL OF PROTECTION EQUAL TO STATE AVERAGE, BY COUNTY

COUNTY	ADDITIONAL RESERVED ACRES NEEDED
KERN	23657.2
TULARE	12534.8
FRESNO	7914.4
MARIPOSA	4937.9
GLENN	3864.5
CALAVERAS	2965.6
COLUSA	2502.8
MADERA	2458.2
TUOLUMNE	2435.3
SHASTA	2233.2
YOLO	1824.8
AMADOR	1547.3
SAN BENITO	1382.8
LOS ANGELES	1289.5
LAKE	1156.9
NAPA	931.9
SANTA BARBARA	927.0
SAN JOAQUIN	705.5
KINGS	589.3
MERCED	346.2
SACRAMENTO	317.0
EL DORADO	142.4
MENDOCINO	37.0
RIVERSIDE	11.0
ALAMEDA	0.9
PLACER	0.0
SONOMA	0.0
HUMBOLDT	0.0
BUTTE	0.0
NEVADA	0.0
SOLANO	0.0
ORANGE	0.0
SAN LUIS OBISPO	0.0
TRINITY	0.0
MARIN	0.0
SAN MATEO	0.0
SIERRA	0.0
CONTRA COSTA	0.0
VENTURA	0.0
STANISLAUS	0.0
SAN BERNARDINO	0.0
TEHAMA	0.0
SANTA CRUZ	0.0
SANTA CLARA	0.0
YUBA	0.0
SAN DIEGO	0.0
MONTEREY	0.0

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-2d. AREA OF PRIVATELY OWNED BLUE OAK WOODLAND THAT WOULD NEED TO BE RESERVED TO ATTAIN LEVEL OF PROTECTION EQUAL TO STATE AVERAGE, BY COUNTY

COUNTY	ADDITIONAL PRIVATE ACRES NEEDED
MARIPOSA	2184.9
SHASTA	1759.3
AMADOR	1128.3
YOLO	1089.9
CALAVERAS	710.6
SAN JOAQUIN	705.5
SAN BENITO	650.8
SACRAMENTO	266.0
EL DORADO	142.4
ALAMEDA	0.9
HUMBOLDT	0.0
TRINITY	0.0
MARIN	0.0
SAN MATEO	0.0
KERN	0.0
FRESNO	0.0
TULARE	0.0
TUOLUMNE	0.0
MEOCINO	0.0
MADERA	0.0
COLUSA	0.0
SANTA BARBARA	0.0
GLENN	0.0
LAKE	0.0
PLACER	0.0
SAN LUIS OBISPO	0.0
SONOMA	0.0
BUTTE	0.0
NAPA	0.0
MONTEREY	0.0
SANTA CLARA	0.0
MERCED	0.0
LOS ANGELES	0.0
ORANGE	0.0
NEVADA	0.0
SOLANO	0.0
KINGS	0.0
STANISLAUS	0.0
VENTURA	0.0
SANTA CRUZ	0.0
SAN BERNARDINO	0.0
SIERRA	0.0
TEHAMA	0.0
RIVERSIDE	0.0
SAN DIEGO	0.0
YUBA	0.0
CONTRA COSTA	0.0

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-3a. CONCENTRATION* OF PUBLICLY OWNED BLUE OAK-FOOTHILL PINE WOODLAND RELATIVE TO STATE AVERAGE BY COUNTY

COUNTY	RELATIVE CONCENTRATION PUBLIC BLUE OAK-FOOTHILL PINE WOODLAND
HUMBOLDT	.
TRINITY	.
SAN MATEO	.
MARIN	.
SOLANO	.
SONOMA	.
ORANGE	.
SANTA CRUZ	.
SAN BERNARDINO	.
SAN DIEGO	.
SIERRA	.
MERCED	.
MENDOCINO	.
LOS ANGELES	.
RIVERSIDE	.
PLACER	0.0
SAN JOAQUIN	0.0
SACRAMENTO	0.0
NEVADA	0.1
AMADOR	0.1
BUTTE	0.1
SHASTA	0.2
ALAMEDA	0.2
MADERA	0.3
SANTA CLARA	0.3
EL DORADO	0.4
SAN LUIS OBISPO	0.4
CALAVERAS	0.4
MONTEREY	0.6
COLUSA	0.7
KINGS	0.7
YOLO	0.8
GLENN	0.9
CONTRA COSTA	0.9
STANISLAUS	1.0
TEHAMA	1.0
LAKE	1.1
NAPA	1.4
KERN	1.5
FRESNO	1.5
MARIPOSA	1.6
TUOLUMNE	1.6
SAN BENITO	1.8
YUBA	2.0
SANTA BARBARA	2.6
TULARE	3.3
VENTURA	5.4

$\left(\frac{\text{WOODLAND TYPE PUBLIC AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right)$	$\left(\frac{\text{WOODLAND TYPE PUBLIC AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right)$	COUNTY
$\left(\frac{\text{WOODLAND TYPE PUBLIC AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right)$	$\left(\frac{\text{WOODLAND TYPE PUBLIC AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right)$	STATE

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-3b. CONCENTRATION* OF RESERVED BLUE OAK-FOOTHILL PINE WOODLAND RELATIVE TO STATE AVERAGE, BY COUNTY

COUNTY	RELATIVE CONCENTRATION RESERVED BLUE OAK-FOOTHILL PINE WOODLAND
ORANGE	.
SIERRA	.
HUMBOLDT	.
TRINITY	.
SOLANO	.
SAN MATEO	.
SONOMA	.
MARIN	.
SAN BERNARDINO	.
SAN DIEGO	.
SANTA CRUZ	.
MENDOCINO	.
RIVERSIDE	.
LOS ANGELES	.
MERCED	.
PLACER	0.0
NEVADA	0.0
SAN JOAQUIN	0.0
KINGS	0.0
GLENN	0.0
SACRAMENTO	0.0
AMADOR	0.0
CALAVERAS	0.0
YOLO	0.0
LAKE	0.0
TUOLUMNE	0.0
NAPA	0.0
KERN	0.0
COLUSA	0.0
MARIPOSA	0.0
FRESNO	0.0
SAN BENITO	0.0
MADERA	0.0
VENTURA	0.0
SAN LUIS OBISPO	<.1
EL DORADO	0.1
SANTA CLARA	0.1
SHASTA	0.1
BUTTE	0.1
MONTEREY	0.4
ALAMEDA	0.6
SANTA BARBARA	1.1
TEHAMA	3.6
STANISLAUS	4.3
CONTRA COSTA	4.9
TULARE	5.3
YUBA	6.6

$$* \left(\frac{\text{WOODLAND TYPE RESERVED AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right) \text{ COUNTY} \div \left(\frac{\text{WOODLAND TYPE RESERVED AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right) \text{ STATE}$$

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-3c. AREA OF RESERVED BLUE OAK-FOOTHILL PINE WOODLAND NEEDED TO ATTAIN LEVEL OF PROTECTION EQUAL TO STATE AVERAGE, BY COUNTY

COUNTY	ADDITIONAL RESERVED ACRES NEEDED
FRESNO	8940.6
SAN BENITO	8734.8
SHASTA	7824.4
CALAVERAS	4116.7
MADERA	3580.52
TUOLUMNE	3492.0
COLUSA	3381.6
MARIPOSA	3218.4
SAN LUIS OBISPO	3181.8
AMADOR	3172.3
BUTTE	2966.3
MONTEREY	2463.1
SANTA CLARA	2157.1
LAKE	1964.6
YOLO	1661.1
GLENN	1481.5
NAPA	1193.4
KERN	1033.9
EL DORADO	967.4
ALAMEDA	875.9
SAN JOAQUIN	874.3
NEVADA	359.6
SACRAMENTO	267.2
PLACER	198.2
KINGS	70.0
VENTURA	56.5
SANTA BARBARA	0.0
TULARE	0.0
LOS ANGELES	0.0
MERCED	0.0
MENDOCINO	0.0
RIVERSIDE	0.0
SONOMA	0.0
HUMBOLDT	0.0
SOLANO	0.0
ORANGE	0.0
TRINITY	0.0
MARIN	0.0
SAN MATEO	0.0
SIERRA	0.0
CONTRA COSTA	0.0
STANISLAUS	0.0
SAN BERNARDINO	0.0
TEHAMA	0.0
SANTA CRUZ	0.0
YUBA	0.0
SAN DIEGO	0.0

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-3d. AREA OF PRIVATELY OWNED BLUE OAK-FOOTHILL PINE WOODLAND THAT WOULD NEED TO BE RESERVED TO ATTAIN LEVEL OF PROTECTION EQUAL TO STATE AVERAGE, BY COUNTY

COUNTY	ADDITIONAL PRIVATE ACRES REQUIRED
SHASTA	2613.4
AMADOR	2310.3
BUTTE	1530.3
SAN JOAQUIN	874.3
SACRAMENTO	267.2
NEVADA	265.6
ALAMEDA	260.9
PLACER	198.2
MARIPOSA	0.0
YOLO	0.0
CALAVERAS	0.0
SAN BENITO	0.0
EL DORADO	0.0
HUMBOLDT	0.0
TRINITY	0.0
MARIN	0.0
SAN MATEO	0.0
KERN	0.0
FRESNO	0.0
TULARE	0.0
TUOLUMNE	0.0
MENDOCINO	0.0
MADERA	0.0
COLUSA	0.0
SANTA BARBARA	0.0
GLENN	0.0
LAKE	0.0
SAN LUIS OBISPO	0.0
SONOMA	0.0
NAPA	0.0
MONTEREY	0.0
SANTA CLARA	0.0
MERCED	0.0
LOS ANGELES	0.0
ORANGE	0.0
SOLANO	0.0
KINGS	0.0
STANISLAUS	0.0
VENTURA	0.0
SANTA CRUZ	0.0
SAN BERNARDINO	0.0
SIERRA	0.0
TEHAMA	0.0
RIVERSIDE	0.0
SAN DIEGO	0.0
YUBA	0.0
CONTRA COSTA	0.0

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-4a. CONCENTRATION* OF PUBLICLY OWNED VALLEY OAK WOODLAND RELATIVE TO STATE AVERAGE, BY COUNTY

COUNTY	RELATIVE CONCENTRATION PUBLIC VALLEY OAK WOODLAND
HUMBOLDT	.
TRINITY	.
SAN MATEO	.
SOLANO	.
SONOMA	.
ORANGE	.
SAN BERNARDINO	.
SAN DIEGO	.
SIERRA	.
MENDOCINO	.
RIVERSIDE	.
PLACER	.
SAN JOAQUIN	.
SACRAMENTO	.
NEVADA	.
AMADOR	.
BUTTE	.
SHASTA	.
MADERA	.
EL DORADO	.
CALAVERAS	.
KINGS	.
YOLO	.
GLENN	.
CONTRA COSTA	.
FRESNO	.
MARIPOSA	.
TUOLUMNE	.
YUBA	.
TULARE	.
MARIN	0.0
LOS ANGELES	0.0
ALAMEDA	0.0
SAN LUIS OBISPO	0.0
COLUSA	0.0
STANISLAUS	0.0
LAKE	0.0
SAN BENITO	0.0
SANTA CRUZ	<.1
TEHAMA	0.2
NAPA	0.2
VENTURA	0.2
MERCED	0.2
KERN	0.4
SANTA BARBARA	0.4
SANTA CLARA	0.5
MONTEREY	5.3

$$* \left(\frac{\text{WOODLAND TYPE PUBLIC AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right) / \left(\frac{\text{WOODLAND TYPE PUBLIC AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right)$$

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-4b. CONCENTRATION* OF RESERVED VALLEY OAK WOODLAND RELATIVE TO STATE AVERAGE, BY COUNTY

COUNTY	RELATIVE CONCENTRATION RESERVED ACRES VALLEY OAK WOODLAND
ORANGE	.
SIERRA	.
HUMBOLDT	.
TRINITY	.
SOLANO	.
SAN MATEO	.
SONOMA	.
SAN BERNARDINO	.
SAN DIEGO	.
MENDOCINO	.
RIVERSIDE	.
PLACER	.
NEVADA	.
SAN JOAQUIN	.
KINGS	.
GLENN	.
SACRAMENTO	.
AMADOR	.
CALAVERAS	.
YOLO	.
TUOLUMNE	.
MARIPOSA	.
FRESNO	.
MADERA	.
EL DORADO	.
SHASTA	.
BUTTE	.
CONTRA COSTA	.
TULARE	.
YUBA	.
MARIN	0.0
LOS ANGELES	0.0
LAKE	0.0
NAPA	0.0
KERN	0.0
COLUSA	0.0
SAN BENITO	0.0
SAN LUIS OBISPO	0.0
ALAMEDA	0.0
SANTA BARBARA	0.0
STANISLAUS	0.0
SANTA CRUZ	0.1
VENTURA	0.3
MERCED	0.4
TEHAMA	0.5
SANTA CLARA	1.1
MONTEREY	5.0

$$* \left(\frac{\text{WOODLAND TYPE RESERVED AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right) \text{ COUNTY}$$

$$\left(\frac{\text{WOODLAND TYPE RESERVED AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right) \text{ STATE}$$

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-4c. AREA OF RESERVED VALLEY OAK WOODLAND NEEDED TO ATTAIN LEVEL OF PROTECTION EQUAL TO STATE AVERAGE, BY COUNTY

COUNTY	ADDITIONAL RESERVED ACRES NEEDED
KERN	2610.1
SANTA BARBARA	1000.3
MERCED	576.7
SAN BENITO	363.1
SAN LUIS OBISPO	339.0
STANISLAUS	255.0
VENTURA	193.9
MARIN	93.2
LOS ANGELES	47.5
TEHAMA	46.4
NAPA	44.8
COLUSA	11.7
SANTA CRUZ	10.9
LAKE	2.1
ALAMEDA	1.9
FRESNO	0.0
SHASTA	0.0
CALAVERAS	0.0
MADERA	0.0
TUOLUMNE	0.0
MARIPOSA	0.0
AMADOR	0.0
BUTTE	0.0
MONTEREY	0.0
SANTA CLARA	0.0
YOLO	0.0
GLENN	0.0
EL DORADO	0.0
SAN JOAQUIN	0.0
NEVADA	0.0
SACRAMENTO	0.0
PLACER	0.0
KINGS	0.0
TULARE	0.0
MENDOCINO	0.0
RIVERSIDE	0.0
SONOMA	0.0
HUMBOLDT	0.0
SOLANO	0.0
ORANGE	0.0
TRINITY	0.0
SAN MATEO	0.0
SIERRA	0.0
CONTRA COSTA	0.0
SAN BERNARDINO	0.0
YUBA	0.0
SAN DIEGO	0.0

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

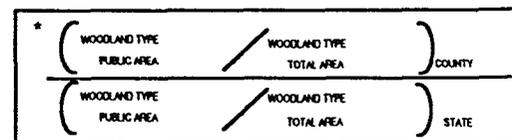
TABLE C-4d. AREA OF PRIVATELY OWNED VALLEY OAK WOODLAND THAT WOULD NEED TO BE RESERVED TO ATTAIN LEVEL OF PROTECTION EQUAL TO STATE AVERAGE, BY COUNTY

COUNTY	ADDITIONAL PRIVATE ACRES REQUIRED
SAN BENITO	363.1
SAN LUIS OBISPO	339.0
MERCED	326.7
STANISLAUS	255.0
VENTURA	129.9
MARIN	93.2
LOS ANGELES	47.5
TEHAMA	46.4
NAPA	18.8
COLUSA	11.6
SANTA CRUZ	10.9
LAKE	2.1
ALAMEDA	1.9
SHASTA	0.0
AMADOR	0.0
BUTTE	0.0
SAN JOAQUIN	0.0
SACRAMENTO	0.0
NEVADA	0.0
PLACER	0.0
MARIPOSA	0.0
YOLO	0.0
CALAVERAS	0.0
EL DORADO	0.0
HUMBOLDT	0.0
TRINITY	0.0
SAN MATEO	0.0
KERN	0.0
FRESNO	0.0
TULARE	0.0
TUOLUMNE	0.0
MENDOCINO	0.0
MADERA	0.0
SANTA BARBARA	0.0
GLENN	0.0
SONOMA	0.0
MONTEREY	0.0
SANTA CLARA	0.0
ORANGE	0.0
SOLANO	0.0
KINGS	0.0
SAN BERNARDINO	0.0
SIERRA	0.0
RIVERSIDE	0.0
SAN DIEGO	0.0
YUBA	0.0
CONTRA COSTA	0.0

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-5a. CONCENTRATION* OF PUBLICLY OWNED COASTAL OAK WOODLAND RELATIVE TO STATE AVERAGE, BY COUNTY

COUNTY	RELATIVE CONCENTRATION PUBLIC COASTAL OAK WOODLAND
SIERRA	.
PLACER	.
SAN JOAQUIN	.
SACRAMENTO	.
NEVADA	.
AMADOR	.
BUTTE	.
SHASTA	.
MADERA	.
EL DORADO	.
CALAVERAS	.
KINGS	.
GLENN	.
MARIPOSA	.
TUOLUMNE	.
YUBA	.
TULARE	.
COLUSA	.
TEHAMA	.
KERN	.
HUMBOLDT	0.0
SAN BERNARDINO	0.0
YOLO	0.0
FRESNO	0.0
ALAMEDA	<.1
TRINITY	<.1
SANTA CRUZ	<.1
NAPA	0.1
LOS ANGELES	0.2
MARIN	0.2
SAN MATEO	0.2
SAN BENITO	0.2
MERCED	0.2
SONOMA	0.4
SOLANO	0.4
MENDOCINO	0.5
SAN LUIS OBISPO	0.5
CONTRA COSTA	0.6
ORANGE	0.9
SANTA CLARA	0.9
SANTA BARBARA	1.1
MONTEREY	1.3
VENTURA	1.6
SAN DIEGO	2.3
LAKE	2.6
STANISLAUS	3.2
RIVERSIDE	3.6



Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-5b. CONCENTRATION* OF RESERVED COASTAL OAK WOODLAND RELATIVE TO STATE AVERAGE, BY COUNTY

COUNTY	RELATIVE CONCENTRATION RESERVED ACRES COASTAL OAK WOODLAND
SIERRA	.
PLACER	.
NEVADA	.
SAN JOAQUIN	.
KINGS	.
GLENN	.
SACRAMENTO	.
AMADOR	.
CALAVERAS	.
TUOLUMNE	.
MARIPOSA	.
MADERA	.
EL DORADO	.
SHASTA	.
BUTTE	.
TULARE	.
YUBA	.
KERN	.
COLUSA	.
TEHAMA	.
ORANGE	0.0
HUMBOLDT	0.0
TRINITY	0.0
SOLANO	0.0
SAN BERNARDINO	0.0
MENDOCINO	0.0
YOLO	0.0
FRESNO	0.0
LAKE	0.0
MERCED	0.0
ALAMEDA	0.1
SAN BENITO	0.1
SANTA CRUZ	0.2
NAPA	0.2
LOS ANGELES	0.2
SANTA BARBARA	0.4
MARIN	0.5
SAN MATEO	0.5
SONOMA	0.6
SAN LUIS OBISPO	0.7
MONTEREY	0.9
SAN DIEGO	1.5
RIVERSIDE	2.0
CONTRA COSTA	2.1
VENTURA	2.6
SANTA CLARA	2.9
STANISLAUS	10.8

$$* \left(\frac{\text{WOODLAND TYPE RESERVED AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right) \text{ COUNTY} \div \left(\frac{\text{WOODLAND TYPE RESERVED AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right) \text{ STATE}$$

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-5c. AREA OF RESERVED COASTAL OAK WOODLAND NEEDED TO ATTAIN LEVEL OF PROTECTION EQUAL TO STATE AVERAGE, BY COUNTY

COUNTY	ADDITIONAL RESERVED ACRES NEEDED
SAN BENITO	5199.8
MENDOCINO	4193.1
SANTA BARBARA	3851.7
ALAMEDA	1802.4
ORANGE	119.4
MERCED	154.4
LAKE	472.3
LOS ANGELES	378.0
SOLANO	369.7
MARIN	354.6
TRINITY	295.0
SAN BERNARDINO	227.3
SANTA CRUZ	217.6
HUMBOLDT	179.2
YOLO	129.7
NAPA	124.1
SAN MATEO	42.1
FRESNO	0.8
KERN	0.0
SAN LUIS OBISPO	0.0
STANISLAUS	0.0
VENTURA	0.0
TEHAMA	0.0
COLUSA	0.0
SHASTA	0.0
CALAVERAS	0.0
MADERA	0.0
TUOLUMNE	0.0
MARIPOSA	0.0
AMADOR	0.0
BUTTE	0.0
MONTEREY	0.0
SANTA CLARA	0.0
GLENN	0.0
EL DORADO	0.0
SAN JOAQUIN	0.0
NEVADA	0.0
SACRAMENTO	0.0
PLACER	0.0
KINGS	0.0
TULARE	0.0
RIVERSIDE	0.0
SONOMA	0.0
SIERRA	0.0
CONTRA COSTA	0.0
YUBA	0.0
SAN DIEGO	0.0

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-5d. AREA OF PRIVATELY OWNED COASTAL OAK WOODLAND THAT WOULD NEED TO BE RESERVED TO ATTAIN LEVEL OF PROTECTION EQUAL TO STATE AVERAGE, BY COUNTY

COUNTY	ADDITIONAL PRIVATE ACRES NEEDED
ALAMEDA	1780.4
SAN BENITO	845.9
MARIN	354.6
TRINITY	228.0
SAN BERNARDINO	227.3
SANTA CRUZ	217.6
HUMBOLDT	179.2
YOLO	129.7
NAPA	123.1
LOS ANGELES	112.9
SAN MATEO	42.1
FRESNO	0.8
SAN LUIS OBISPO	0.0
MERCED	0.0
STANISLAUS	0.0
VENTURA	0.0
TEHAMA	0.0
COLUSA	0.0
LAKE	0.0
SHASTA	0.0
AMADOR	0.0
BUTTE	0.0
SAN JOAQUIN	0.0
SACRAMENTO	0.0
NEVADA	0.0
PLACER	0.0
MARIPOSA	0.0
CALAVERAS	0.0
EL DORADO	0.0
KERN	0.0
TULARE	0.0
TUOLUMNE	0.0
MENDOCINO	0.0
MADERA	0.0
SANTA BARBARA	0.0
GLENN	0.0
SONOMA	0.0
MONTEREY	0.0
SANTA CLARA	0.0
ORANGE	0.0
SOLANO	0.0
KINGS	0.0
SIERRA	0.0
RIVERSIDE	0.0
SAN DIEGO	0.0
YUBA	0.0
CONTRA COSTA	0.0

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-6a. CONCENTRATION* OF PUBLICLY OWNED INTERIOR AND/OR CANYON OAK WOODLAND RELATIVE TO STATE AVERAGE, BY COUNTY

COUNTY	RELATIVE CONCENTRATION PUBLIC INTERIOR AND/OR CANYON OAK WOODLAND
SAN JOAQUIN	.
KINGS	.
GLENN	.
COLUSA	.
TRINITY	.
MARIN	.
SAN MATEO	.
MERCED	.
SAN LUIS OBISPO	.
CONTRA COSTA	.
ORANGE	.
SANTA BARBARA	.
VENTURA	.
STANISLAUS	.
SHASTA	0.0
HUMBOLDT	0.0
SOLANO	0.0
SANTA CLARA	0.0
NAPA	<.1
YOLO	0.1
SACRAMENTO	0.1
MENDOCINO	0.2
ALAMEDA	0.2
EL DORADO	0.3
AMADOR	0.4
SONOMA	0.4
SAN BENITO	0.4
YUBA	0.5
NEVADA	0.5
PLACER	0.5
MADERA	0.5
MARIPOSA	0.6
BUTTE	0.6
LAKE	0.6
CALAVERAS	0.7
TEHAMA	1.0
TUOLUMNE	1.4
SANTA CRUZ	1.5
KERN	2.3
SAN DIEGO	2.4
FRESNO	2.4
SAN BERNARDINO	2.7
TULARE	2.9
SIERRA	3.1
MONTEREY	3.4
LOS ANGELES	3.6
RIVERSIDE	4.1

*	WOODLAND TYPE PUBLIC AREA	WOODLAND TYPE TOTAL AREA	COUNTY
	WOODLAND TYPE PUBLIC AREA	WOODLAND TYPE TOTAL AREA		STATE

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-6b. CONCENTRATION* OF RESERVED INTERIOR AND/OR CANYON OAK WOODLAND RELATIVE TO STATE AVERAGE, BY COUNTY

COUNTY	RELATIVE CONCENTRATION RESERVED ACRES
SAN JOAQUIN	.
KINGS	.
GLENN	.
COLUSA	.
ORANGE	.
TRINITY	.
MERCED	.
SANTA BARBARA	.
MARIN	.
SAN MATEO	.
SAN LUIS OBISPO	.
CONTRA COSTA	.
VENTURA	.
STANISLAUS	.
SIERRA	0.0
SACRAMENTO	0.0
AMADOR	0.0
CALAVERAS	0.0
MARIPOSA	0.0
SHASTA	0.0
KERN	0.0
HUMBOLDT	0.0
SOLANO	0.0
MENDOCINO	0.0
YOLO	0.0
LAKE	0.0
SAN BENITO	0.0
NAPA	0.0
SONOMA	0.0
SANTA CLARA	0.0
TUOLUMNE	<.1
MADERA	<.1
PLACER	<.1
EL DORADO	0.2
NEVADA	0.7
LOS ANGELES	0.8
BUTTE	1.1
YUBA	1.1
ALAMEDA	1.2
SAN BERNARDINO	2.0
FRESNO	2.4
MONTEREY	3.5
TEHAMA	3.7
SAN DIEGO	4.6
TULARE	4.8
SANTA CRUZ	7.5
RIVERSIDE	8.5

$$* \left(\frac{\text{WOODLAND TYPE RESERVED AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right) \text{ COUNTY} \div \left(\frac{\text{WOODLAND TYPE RESERVED AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right) \text{ STATE}$$

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-6c. AREA OF RESERVED INTERIOR AND/OR CANYON OAK WOODLAND NEEDED TO ATTAIN LEVEL OF PROTECTION EQUAL TO STATE AVERAGE, BY COUNTY

COUNTY	ADDITIONAL RESERVED ACRES NEEDED
CALAVERAS	5664.9
EL DORADO	4545.4
MENDOCINO	4225.1
PLACER	3824.8
MARIPOSA	3597.1
TUOLUMNE	3516.3
SONOMA	3045.2
AMADOR	2466.2
MADERA	2323.5
KERN	1549.5
NEVADA	1258.7
LAKE	1102.8
SOLANO	418.2
YOLO	367.7
SACRAMENTO	355.0
NAPA	340.4
HUMBOLDT	255.9
SHASTA	166.7
SIERRA	103.0
LOS ANGELES	101.7
SANTA CLARA	51.2
SAN BENITO	5.7
SANTA BARBARA	0.0
ALAMEDA	0.0
ORANGE	0.0
MERCED	0.0
MARIN	0.0
TRINITY	0.0
SAN BERNARDINO	0.0
SANTA CRUZ	0.0
SAN MATEO	0.0
FRESNO	0.0
SAN LUIS OBISPO	0.0
STANISLAUS	0.0
VENTURA	0.0
TEHAMA	0.0
COLUSA	0.0
BUTTE	0.0
MONTEREY	0.0
GLENN	0.0
SAN JOAQUIN	0.0
KINGS	0.0
TULARE	0.0
RIVERSIDE	0.0
CONTRA COSTA	0.0
YUBA	0.0
SAN DIEGO	0.0

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-6d. AREA OF PRIVATELY OWNED INTERIOR AND/OR CANYON OAK WOODLAND THAT WOULD NEED TO BE RESERVED TO ATTAIN LEVEL OF PROTECTION EQUAL TO STATE AVERAGE, BY COUNTY

COUNTY	ADDITIONAL PRIVATE ACRES NEEDED
SOLANO	418.2
NAPA	330.4
HUMBOLDT	255.9
YOLO	169.7
SHASTA	166.7
SACRAMENTO	86.0
SANTA CLARA	51.2
MENDOCINO	3.1
ALAMEDA	0.0
SAN BENITO	0.0
MARIN	0.0
TRINITY	0.0
SAN BERNARDINO	0.0
SANTA CRUZ	0.0
LOS ANGELES	0.0
SAN MATEO	0.0
FRESNO	0.0
SAN LUIS OBISPO	0.0
MERCED	0.0
STANISLAUS	0.0
VENTURA	0.0
TEHAMA	0.0
COLUSA	0.0
LAKE	0.0
AMADOR	0.0
BUTTE	0.0
SAN JOAQUIN	0.0
NEVADA	0.0
PLACER	0.0
MARIPOSA	0.0
CALAVERAS	0.0
EL DORADO	0.0
KERN	0.0
TULARE	0.0
TUOLUMNE	0.0
MADERA	0.0
SANTA BARBARA	0.0
GLENN	0.0
SONOMA	0.0
MONTEREY	0.0
ORANGE	0.0
KINGS	0.0
SIERRA	0.0
RIVERSIDE	0.0
SAN DIEGO	0.0
YUBA	0.0
CONTRA COSTA	0.0

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-7a. CONCENTRATION* OF PUBLICLY OWNED MONTANE HARDWOOD MIX RELATIVE TO STATE AVERAGE, BY COUNTY

COUNTY	RELATIVE CONCENTRATION PUBLIC MONTANE HARDWOOD MIX
SAN JOAQUIN	.
KINGS	.
GLENN	.
COLUSA	.
MARIN	.
MERCED	.
SAN LUIS OBISPO	.
CONTRA COSTA	.
ORANGE	.
SANTA BARBARA	.
VENTURA	.
STANISLAUS	.
SHASTA	.
SACRAMENTO	.
ALAMEDA	.
AMADOR	.
PLACER	.
MADERA	.
MARIPOSA	.
BUTTE	.
CALAVERAS	.
TEHAMA	.
TUOLUMNE	.
SANTA CRUZ	.
KERN	.
FRESNO	.
SAN BERNARDINO	.
TULARE	.
SIERRA	.
LOS ANGELES	.
RIVERSIDE	.
SAN MATEO	0.0
SANTA CLARA	0.0
YOLO	0.0
EL DORADO	0.0
HUMBOLDT	0.1
NEVADA	0.1
TRINITY	0.2
SAN DIEGO	0.3
SONOMA	0.6
SAN BENITO	0.7
NAPA	0.7
SOLANO	1.1
MENDOCINO	1.3
MONTEREY	2.5
YUBA	2.6
LAKE	4.4

$$* \left(\frac{\text{WOODLAND TYPE PUBLIC AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right)_{\text{COUNTY}} \div \left(\frac{\text{WOODLAND TYPE PUBLIC AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right)_{\text{STATE}}$$

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-7b. CONCENTRATION* OF RESERVED MONTANE HARDWOOD MIX RELATIVE TO STATE AVERAGE, BY COUNTY

COUNTY	RELATIVE CONCENTRATION RESERVED ACRES MONTANE HARDWOOD MIX
SAN JOAQUIN	.
KINGS	.
GLENN	.
COLUSA	.
ORANGE	.
MERCED	.
SANTA BARBARA	.
MARIN	.
SAN LUIS OBISPO	.
CONTRA COSTA	.
VENTURA	.
STANISLAUS	.
SIERRA	.
SACRAMENTO	.
AMADOR	.
CALAVERAS	.
MARIPOSA	.
SHASTA	.
KERN	.
TUOLUMNE	.
MADERA	.
PLACER	.
LOS ANGELES	.
BUTTE	.
ALAMEDA	.
SAN BERNARDINO	.
FRESNO	.
TEHAMA	.
TULARE	.
SANTA CRUZ	.
RIVERSIDE	.
TRINITY	0.0
SAN MATEO	0.0
HUMBOLDT	0.0
SOLANO	0.0
YOLO	0.0
LAKE	0.0
SANTA CLARA	0.0
EL DORADO	0.0
NEVADA	0.0
YUBA	0.0
SAN DIEGO	0.0
MENDOCINO	<.1
NAPA	0.2
SAN BENITO	0.3
SONOMA	4.3
MONTEREY	12.1

$$* \left(\frac{\text{WOODLAND TYPE RESERVED AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right) \text{ COUNTY} \div \left(\frac{\text{WOODLAND TYPE RESERVED AREA}}{\text{WOODLAND TYPE TOTAL AREA}} \right) \text{ STATE}$$

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-7c. AREA OF RESERVED MONTANE HARDWOOD MIX NEEDED TO ATTAIN LEVEL OF PROTECTION EQUAL TO :
AVERAGE, BY COUNTY

COUNTY	ADDITIONAL RESERVED ACRES NEEDED
MENDOCINO	6578.1
NAPA	3581.0
HUMBOLDT	1700.2
SOLANO	1016.6
TRINITY	511.3
SAN DIEGO	262.6
NEVADA	233.7
SAN MATEO	144.7
LAKE	113.4
SAN BENITO	101.6
YUBA	39.5
EL DORADO	20.8
SANTA CLARA	7.2
YOLO	4.7
CALAVERAS	0.0
PLACER	0.0
MARIPOSA	0.0
TUOLUMNE	0.0
SONOMA	0.0
AMADOR	0.0
MADERA	0.0
KERN	0.0
SACRAMENTO	0.0
SHASTA	0.0
SIERRA	0.0
LOS ANGELES	0.0
SANTA BARBARA	0.0
ALAMEDA	0.0
ORANGE	0.0
MERCED	0.0
MARIN	0.0
SAN BERNARDINO	0.0
SANTA CRUZ	0.0
FRESNO	0.0
SAN LUIS OBISPO	0.0
STANISLAUS	0.0
VENTURA	0.0
TEHAMA	0.0
COLUSA	0.0
BUTTE	0.0
MONTEREY	0.0
GLENN	0.0
SAN JOAQUIN	0.0
KINGS	0.0
TULARE	0.0
RIVERSIDE	0.0
CONTRA COSTA	0.0

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System

TABLE C-7d. AREA OF PRIVATELY OWNED MONTANE HARDWOOD MIX THAT WOULD NEED TO BE RESERVED TO ATTAIN LEVEL OF PROTECTION EQUAL TO STATE AVERAGE, BY COUNTY

COUNTY	ADDITIONAL PRIVATE ACRES NEEDED
HUMBOLDT	1375.1
TRINITY	308.3
NEVADA	180.7
SAN MATEO	144.7
SAN DIEGO	126.6
EL DORADO	20.8
SANTA CLARA	7.2
YOLO	4.7
SOLANO	0.0
NAPA	0.0
SHASTA	0.0
SACRAMENTO	0.0
MENDOCINO	0.0
ALAMEDA	0.0
SAN BENITO	0.0
MARIN	0.0
SAN BERNARDINO	0.0
SANTA CRUZ	0.0
LOS ANGELES	0.0
FRESNO	0.0
SAN LUIS OBISPO	0.0
MERCED	0.0
STANISLAUS	0.0
VENTURA	0.0
TEHAMA	0.0
COLUSA	0.0
LAKE	0.0
AMADOR	0.0
BUTTE	0.0
SAN JOAQUIN	0.0
PLACER	0.0
MARIPOSA	0.0
CALAVERAS	0.0
KERN	0.0
TULARE	0.0
TUOLUMNE	0.0
MADERA	0.0
SANTA BARBARA	0.0
GLENN	0.0
SONOMA	0.0
MONTEREY	0.0
ORANGE	0.0
KINGS	0.0
SIERRA	0.0
RIVERSIDE	0.0
YUBA	0.0
CONTRA COSTA	0.0

Source: Pillsbury and others, 1991, and FRRAP Information and Analysis System