

# Characteristics of the Range Livestock Industry

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## Abstract

The range livestock industry uses a significant portion of California's forest and rangelands. Since 1982, the use of forest and rangeland by the range livestock industry has been changing. Ownership, organization type, tenure, inventory, production, and expenses have all shaped the industry into what it is today. Many differences exist within larger operations as opposed to small. In addition, sheep and cattle operations both have distinctive industry traits. The industry as a whole has many dynamic aspects and many different stories can be told.

One mandate of the Fire and Resource Assessment Program (FRAP) is to report on the condition of California's forest and range-based livestock industry. Per se, there are not statistics on this sector of the livestock industry, as it is diffuse and intertwined as part of the larger sheep and cattle industry in California. Seasonally, animals from different parts of California are often moved from one area to another to take advantage of forage availability and other factors. In addition, animals are shipped from California to other states and from other states to California at different times and for different reasons.

## Methodology

### Information from the National Agricultural Statistics Service

Livestock statistics are collected by the USDA National Agricultural Statistics Service (NASS) every five years as part of a national census. In an effort to find out more about the structure of the range-livestock industry in California, FRAP contracted with NASS to provide more detailed information for 10 areas of the State. Table 3 lists the counties that make up these 10 regions. These regions are reflected in Table 1.

Table 1. NASS regions and the California counties they encompass

| NASS region                                    | County   |
|--|--|
| North Coast                                    | Mendocino, Humboldt, Del Norte   |
| North Interior                                 | Trinity, Siskiyou, Shasta, Lassen, Modoc   |
| North and South Sacramento Valley/North Sierra | Solano, Yolo, Sutter, Sacramento, Colusa, Glenn, Tehama, Butte, Yuba, Plumas, Sierra |
| North Central and Central Sierra               | Nevada, Placer, El Dorado, Amador, Calaveras, Tuolumne, Mariposa                     |
| North and South Bay                            | Lake, Napa, Sonoma, Marin, Contra Costa, Alameda, Santa Clara, San Mateo, Santa Cruz |
| Central/South Central Coast                    | Monterey, San Benito, San Luis Obispo, Santa Barbara, Ventura                        |
| North and Central San Joaquin Valley           | San Joaquin, Stanislaus, Merced, Madera, Fresno                                      |
| South San Joaquin Valley                       | Tulare, Kings, Kern  |
| Eastside                                       | Alpine, Mono, Inyo   |
| South Coast/Mojave/Colorado Desert             | Los Angeles, Orange, San Diego, San Bernardino, Riverside, Imperial                  |

Figure 1. NASS regions and the California counties they encompass



Source: Compiled by FRAP from National Agricultural Statistics Service, 2001a

Data for the regions separates out farms with cattle, sheep, and goats. Further subdivisions are made between all farms, principally crop farms, dairy farms, sheep and goat farms and feedlot farms, and beef cattle farms excluding feedlots. The category “beef cattle excluding feedlots” most closely approximates data available about the livestock industry reliant on forest and rangelands. Within this category, there are 5,000-6,000 dairy cattle on these farms, but they are less than .01 percent of the total inventory. NASS statistics do not provide as much detail about sheep farms. While some information is provided, the majority of the sheep industry data is contained within a residual category not shown, which is called “sheep and goat farms and feedlots.” Significant portions of sheep farms within this category are located on or use forest and rangelands.

To help focus on trends in forest and rangeland farms, information in the category “beef cattle excluding feedlots” and “sheep and goat farms and feedlots” was collected and analyzed. Forest and rangeland farms are highlighted in yellow when statistics for all farms are provided. The category “sheep and goat farms and feedlots” are not highlighted but still represent a significant contribution of farms located on or using forest and rangelands.

### **Farm characteristics for cattle, sheep, and goat farms**

NASS statistics provide an in depth look at farms with cattle, sheep, and goats and their characteristics. When possible, farm characteristics are presented as the number of farms as well as the amount of farm acreage of a given characteristic.

The “beef cattle farms excluding feedlots” and “sheep and goat farms and feedlots” category types are used to describe the range livestock industry within this section. Since sheep farm information is lumped into a residual category that includes feedlots, it is unable to calculate the amount and acreage of sheep farms that actually utilize forest and range. An estimated range is used when discussing the range livestock industry. In most cases, the residual category that includes sheep, goats, and feedlots, make up a small portion of the range livestock industry. Therefore, graphically displayed data uses only beef cattle farms excluding feedlots. This section focuses on the following farm characteristics:

- Farms with cattle, sheep, and goats by land use (cropland, woodland, and pasture/range);
- Organization type (sole proprietorships, partnerships, corporations, and other);
- Tenure (full ownerships, part ownerships, and tenants); and
- Operators by occupation (farming or other) and length of service (years).

### **All farms with cattle, sheep, and goats utilizing forage resources**

In 1997, all farms with cattle, sheep, and goats made up about 27 percent of all farms in California. The number of sheep, goat, and beef farms other than feedlots is estimated to make up between 16 percent and 20 percent of the farms in the State. The number of farms with beef cattle represents at least three quarters of the number of farms in the range livestock industry (National Agricultural Statistics Service, 2001a).

The number of farms with cropland, woodland, or other land has been decreasing in most regions throughout California since 1982. Beef cattle farms excluding feedlots over 2,000 acres and sheep and goat farms, with cropland, woodland, and other land have declined at a much slower rate and in some instances have increased (National Agricultural Statistics Service, 2001a) (Table 2).

Table 2. Number of farms utilizing forage resources by forage type, statewide, 1982 and 1997

| Land in farms according to use | All farms |        | All farms w/cattle, sheep and goats |        | Beef cattle farms excluding feedlots |        |                    |       | Sheep and goat farms and feedlots |       |
|--------------------------------|-----------|--------|-------------------------------------|--------|--------------------------------------|--------|--------------------|-------|-----------------------------------|-------|
|                                |           |        |                                     |        | All farms                            |        | Farms 2,000+ acres |       |                                   |       |
|                                | 1982      | 1997   | 1982                                | 1997   | 1982                                 | 1997   | 1982               | 1997  | 1982                              | 1997  |
| Total farms                    | 82,454    | 74,126 | 30,586                              | 19,746 | 14,850                               | 11,510 | 1,411              | 1,437 | 8,279                             | 3,473 |
| Cropland only for grazing      | 14,585    | 10,400 | 12,051                              | 7,709  | 6,285                                | 4,680  | 305                | 366   | 3,044                             | 1,275 |
| Woodland pastured              | 13,461    | 12,055 | 2,157                               | 1,296  | 1,272                                | 895    | 216                | 180   | 2,329                             | 1,267 |
| Woodland non-pastured          | 2,597     | 1,756  | 1,822                               | 1,096  | 889                                  | 613    | 110                | 100   | 531                               | 218   |
| Pasture/range*                 | 3,200     | 2,813  | 10,519                              | 8,567  | 6,251                                | 5,980  | 1,326              | 1,360 | 515                               | 228   |

\*Not cropland or woodland

■ = Forest and rangeland farms

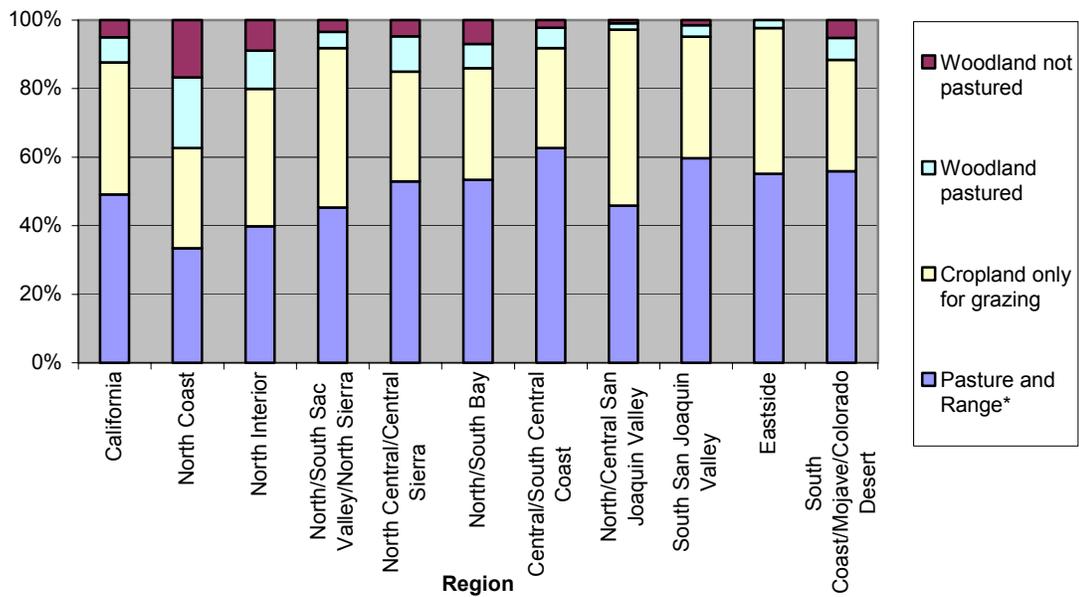
Numbers in columns are not additive since farms may use one, many or other forage resources

Source: National Agricultural Statistics Service, 2001a

Regionally, range livestock farms utilizing cropland, woodland, and other land as forage resources are concentrated within the North Interior, North/South Sacramento Valley/North Sierra, North Central/Central Sierra, North/South Bay, Central/South Central Coast, and the North/Central San Joaquin Valley regions. As shown in Figure 2, the majority of farms within each region use cropland only for grazing and pasture/range other than cropland or woodland (National Agricultural Statistics Service, 2001a).

All regions using forage resources have declined between 1982 and 1997. Farms within the range livestock industry using cropland as a forage resource are decreasing more rapidly within the South Coast/Mojave/Colorado Desert, Eastside, and North/South Bay agricultural census regions. They are decreasing much more slowly within the North Interior and Central/South Central Coast regions. Farms within the range livestock industry using woodland forage resources have decreased rapidly within the North/South Bay and South San Joaquin Valley regions. In contrast, the North Interior region has decreased at a much slower rate than the rest of the regions between 1982 and 1997. Range livestock farms utilizing land other than cropland or woodland have decreased rapidly within South Coast/Mojave/Colorado Desert and the North/South Bay regions. The Central/South Coast and Eastside regions have decreased much slower than all other regions between 1982 and 1997 (National Agricultural Statistics Service, 2001a). For more regional information, see Appendix A.

Figure 2. Proportion of beef cattle farms excluding feedlots utilizing forage resources by forage type, Statewide and region, 1997



Source: National Agricultural Statistics Service, 2001a

### Acres in farms with cattle, sheep, and goats utilizing forage resources

An analysis of farm acres within the agricultural census data was limited to the years 1992 and 1997. In 1997, the total acreage in farms in California reached almost 27.7 million acres. Acreage of farms with cattle sheep or goats comprised almost 18.0 million acres, or 65 percent of the total. The range livestock portion of acreage in farms with cattle sheep or goats is estimated to be between 50 and 54 percent of the total farm acreage in California. The acreage of farms with beef cattle makes up at least 90 percent of the total of range livestock acreage (National Agricultural Statistics Service, 2001a).

*All land in farms with cattle, sheep, and goats has declined 23 percent between 1992 and 1997.*

In 1992, total land in farms with cattle, sheep, and goats in California totaled close to 23.4 million acres. By 1997, this had declined 23 percent to approximately 17.9 million acres. Total farm acreage has decreased across all farm category types; however, the range livestock farm acreages have been declining at a slower rate compared with all other category types. Range livestock farms utilizing cropland acreage for grazing increased slightly between 1992 and 1997. Acreage use of all other forage resources has declined for all farm types (Table 3). The majority of acreage being used as a forage resource is pasture/range other than cropland or woodland (Figure 3) (National Agricultural Statistics Service, 2001a). Regionally, an accurate assessment of acres could not be performed due to withheld data.

Table 3. Acres in farms utilizing forage resources by forage type, Statewide, 1992 and 1997 (thousands of acres)

| Land in farms according to use | All farms |        | All farms w/cattle, sheep and goats |        | Beef cattle farms excluding feedlots |        |                    |        | Sheep and goat farms and feedlots |       |
|--------------------------------|-----------|--------|-------------------------------------|--------|--------------------------------------|--------|--------------------|--------|-----------------------------------|-------|
|                                |           |        |                                     |        | All farms                            |        | Farms 2,000+ acres |        |                                   |       |
|                                | 1992      | 1997   | 1992                                | 1997   | 1992                                 | 1997   | 1992               | 1997   | 1992                              | 1997  |
| Total farms                    | 32,143    | 27,699 | 23,424                              | 17,993 | 16,478                               | 13,744 | 12,269             | 11,099 | 3,260                             | 1,245 |
| Cropland only for grazing      | 1,227     | 1,246  | 1,061                               | 1,101  | 750                                  | 799    | 243                | 303    | 76                                | 76    |
| Woodland pastured              | 686       | 645    | 619                                 | 578    | 501                                  | 500    | 348                | 350    | 51                                | 40    |
| Woodland non-pastured          | 464       | 471    | 295                                 | 264    | 237                                  | 204    | 158                | 143    | 16                                | 31    |
| Pasture/range*                 | 16,191    | 14,385 | 15,173                              | 13,605 | 12,261                               | 11,348 | 10,628             | 9,750  | 1,617                             | 851   |

\*Not cropland or woodland

Numbers in columns are not additive since farms may use one, many, or other forage resources

■ = Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

Figure 3. Proportion of acres in beef cattle farms excluding feedlots utilizing forage resources, Statewide, 1997



\*Not cropland or woodland

Source: National Agricultural Statistics Service, 2001a

### Farm organization by farm type

Farm organization provides another way to view farms in California. Sole proprietorship by far is the most common form of ownership in all farms and farms with cattle sheep and goats. Partnership is the second most common form, with family-held corporations next. In 1997, nearly three quarters of all farms were sole proprietorships (National Agricultural Statistics Service, 2001a).

In 1997, all farms with cattle, sheep, and goats made up nearly 29 percent of all sole proprietorship farms and 22 percent of all partnership farms. The range livestock proportion of the all farms category is estimated to be between 17 and 23 percent of all sole proprietorships and between 11 and 13 percent of all partnership farms. Sole proprietorship beef cattle farms represent 76 percent of sole proprietorship farms in the range livestock industry. Partnership beef cattle farms represent 86 percent of partnership farms in the range livestock industry (National Agricultural Statistics Service, 2001a).

Between 1982 and 1997, the number of farms in California decreased on sole proprietorship, partnership, and non-family corporations. Family held corporations and other cooperative/estate/trust/institutional farms increased between 1982 and 1997. The majority of those increases occurred on farms without cattle, sheep, or goats. Sole proprietorship and partnership farms less than 500 acres are decreasing, while farms greater than 500 acres have increased slightly within the range livestock industry. Corporation owned range livestock farms are increasing on farms less than 500 acres while farms greater than 500 acres are decreasing (National Agricultural Statistics Service, 2001a) (Table 4).

Table 4. Number of farms by organization type, Statewide, 1982 and 1997

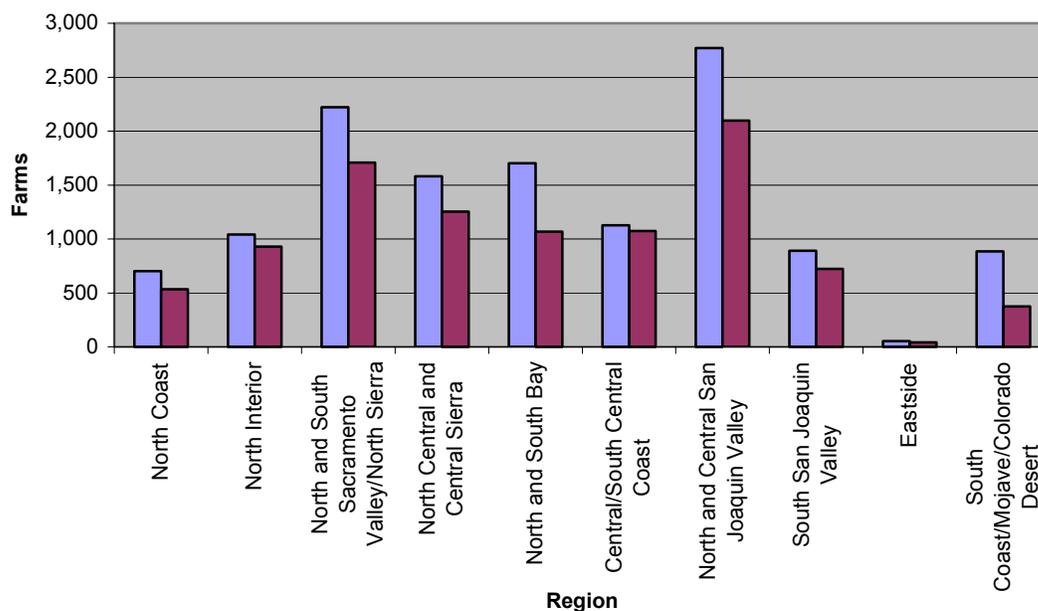
| Region, organization type and year            | All farms | All farms w/cattle, sheep and goats | Beef cattle farms excluding feedlots |              | Sheep and goat farms and feedlots |
|---|-----------|-------------------------------------|--------------------------------------|--------------|-----------------------------------|
|   |           |                                     | All farms                            | 2,000+ acres |                                   |
| California                                    |           |                                     |                                      |              |                                   |
| Sole proprietorships (individual/family)      |           |                                     |                                      |              |                                   |
| 1982  | 65,351    | 26,103                              | 12,974                               | 887          | 7,501                             |
| 1997  | 56,755    | 16,246                              | 9,806                                | 931          | 3,129                             |
| Partnership                                   |           |                                     |                                      |              |                                   |
| 1982  | 11,332    | 3,272                               | 1,416                                | 338          | 535                               |
| 1997  | 10,813    | 2,430                               | 1,203                                | 338          | 204                               |
| Corporation: family held                      |           |                                     |                                      |              |                                   |
| 1982  | 4,035     | 806                                 | 281                                  | 129          | 129                               |
| 1997  | 4,473     | 662                                 | 281                                  | 121          | 67                                |
| Corporation: non-family                       |           |                                     |                                      |              |                                   |
| 1982  | 810       | 111                                 | 43                                   | 18           | 31                                |
| 1997  | 779       | 75                                  | 35                                   | 10           | 14                                |
| Other: co-op, estate/trust, institution, etc. |           |                                     |                                      |              |                                   |
| 1982  | 772       | 294                                 | 136                                  | 39           | 83                                |
| 1997  | 1,306     | 333                                 | 185                                  | 37           | 59                                |

 = Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

Regionally, the majority of sole proprietorship owned farms within the range livestock industry resides within the North and South Sacramento Valley, North and South Bay, North and Central San Joaquin Valley, and the Central/South Central Coast regions. Sole proprietorship farms have decreased in all regions. The largest decreases occurred in the South Coast/ Mojave/ Colorado Desert and North/South Bay regions between 1982 and 1997 (Figure 4). Partnership owned farms within the range livestock industry are spread evenly across all regions. Partnership owned farms within the range livestock industry have decreased but at lesser rates and have remained stable within the Central/South Central Coast and South San Joaquin Valley region. It is interesting to note, farms owned in co-op, estate, trust, or institutional have increased in every region except for the South Coast/Mojave/Colorado Desert region between 1982 and 1997. In 1997, farms owned in co-op, estate, trust, or institutional only made up 2 percent of all farms within the range livestock industry (National Agricultural Statistics Service, 2001a). For more regional information, see Appendix B.

Figure 4. Number of sole proprietorship beef cattle farms excluding feedlots, regional, 1982 and 1997



Source: National Agricultural Statistics Service, 2001a

### Farm organizations by acreage

Sole proprietorship is the most common form of ownership by acreage in all farms and farms with cattle, sheep, and goats. Partnership is the second most common form, with family-held corporations next. In 1997, just over half of all farm acreage were sole proprietorships (National Agricultural Statistics Service, 2001a).

An analysis of farm acreage was limited to the years 1992 and 1997. In 1997, nearly 14.1 million acres or 51 percent of all farm acreage were in sole proprietorship in California. Sole proprietorship farms with cattle, sheep, and goats held nearly 38 percent (10.5 million acres) of the total farm acreage. Sole proprietorship farm acreage within the range livestock industry is estimated to hold between 31 and 33 percent (8.6 to 9.2 million acres) of all farm acreage. Sole proprietorship farms with beef cattle made up just over 56 percent of the acreage contained in the range livestock industry (National Agricultural Statistics Service, 2001a).

*Sole proprietorship is the most common form of ownership by acreage within farms with cattle, sheep and goats.*

Partnership farms with cattle, sheep and goats held nearly 16 percent of the total farm acreage in California. Partnership farm acreage within the range livestock industry is estimated to hold between 11 and 13 percent (3.2 to 3.6 million acres) of all farm acreage. Partnership farms with beef cattle made up just over 89 percent of the acreage contained in the range livestock industry (National Agricultural Statistics Service, 2001a).

Within the range livestock industry, acreage has decreased in nearly all organization types. Family held corporation acreage increased slightly on beef cattle farms excluding feedlots and non-family corporation acreage increased on sheep and goat farms and feedlots between 1992 and 1997. However,

non-family and family corporations only hold 3 percent of total range livestock acreage (National Agricultural Statistics Service, 2001a) (Table 5).

Table 5. Farm acreage by organization type (thousands of acres), Statewide, 1992 and 1997

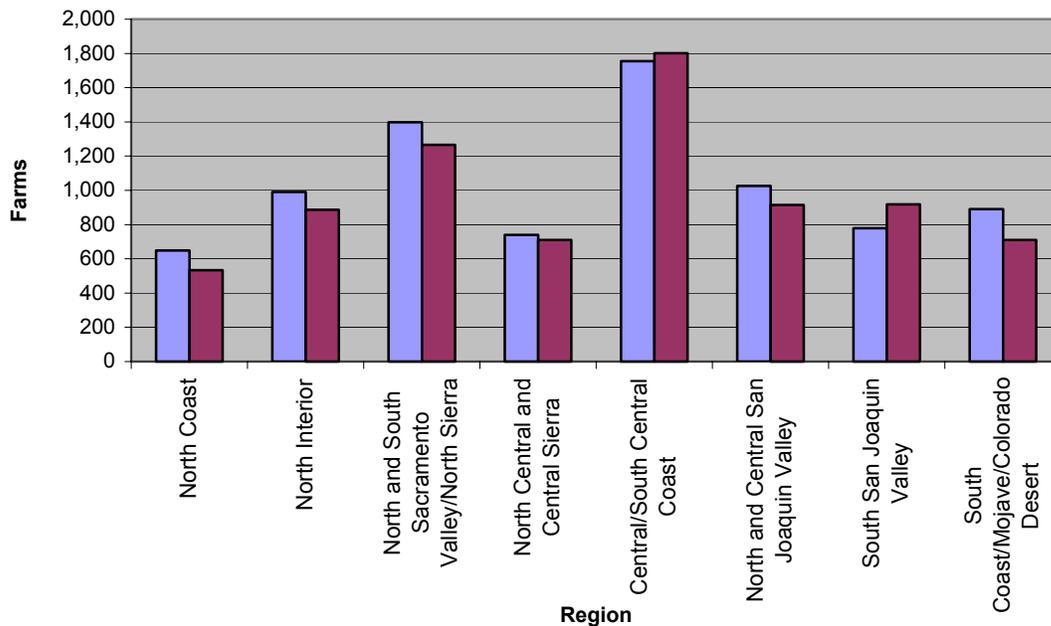
| Region, organization type and year            | All farms | All farms w/cattle, sheep and goats | Beef cattle farms excluding feedlots |              | Sheep and goat farms and feedlots |
|---|-----------|-------------------------------------|--------------------------------------|--------------|-----------------------------------|
|   |           |                                     | All farms                            | 2,000+ acres |                                   |
| California                                    |           |                                     |                                      |              |                                   |
| Sole proprietorships (individual/family)      |           |                                     |                                      |              |                                   |
| 1992  | 14,646    | 11,049                              | 9,034                                | 6,857        | 737                               |
| 1997  | 14,132    | 10,455                              | 8,601                                | 6,493        | 620                               |
| Partnership                                   |           |                                     |                                      |              |                                   |
| 1992  | 8,162     | 5,120                               | 3,453                                | 3,072        | 707                               |
| 1997  | 7,654     | 4,368                               | 3,180                                | 2,791        | 376                               |
| Corporation: family held                      |           |                                     |                                      |              |                                   |
| 1992  | 4,464     | 2,569                               | 1,498                                | 1,415        | 480                               |
| 1997  | 4,362     | 2,251                               | 1,510                                | 1,435        | 185                               |
| Corporation: non-family                       |           |                                     |                                      |              |                                   |
| 1992  | 815       | 294                                 | 247                                  | 235          | 27                                |
| 1997  | 859       | 460                                 | 103                                  | 92           | 355                               |
| Other: co-op, estate/trust, institution, etc. |           |                                     |                                      |              |                                   |
| 1992  | 892       | 595                                 | 495                                  | 441          | 40                                |
| 1997  | 691       | 459                                 | 351                                  | 287          | 35                                |

 = Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

Regionally, data is restricted in many regions due to disclosure issues. However, enough data exists to take a closer look at sole proprietorship acres. In 1997, the North and South Sacramento Valley and Central/South Central Coast held 34 percent of sole proprietorship farms within the range livestock industry. Sole proprietorship acreage within the range livestock industry has increased between 14 and 17 percent within the South San Joaquin Valley and 1 to 2 percent within the Central/South Central Coast between 1992 and 1997 (Figure 5) (National Agricultural Statistics Service, 2001a).

Figure 5. Sole proprietorship beef cattle farm acreage excluding feedlots, regional, 1992 and 1997



Excludes Eastside and North/South Bay regions due to withheld data

Source: National Agricultural Statistics Service, 2001a

### Number of farms in full ownership, part ownership, and renters

California farm ownership is split between full ownership, part ownership, and renters (tenants). Across all farms, the majority of farmers own their farms. The same is true for the range livestock industry. In 1997, full owners controlled between 60 and 63 percent of farms in the range livestock industry. Part owners controlled between 23 and 26 percent and tenants oversaw between 14 and 15 percent. Full owners in the range livestock industry have declined between 32 and 43 percent; part owners and tenants have decreased at lesser rates. Full owner and part owner beef cattle farms excluding feedlots have had minimal decreases while tenant farms have increased 34 percent between 1982 and 1997 (National Agricultural Statistics Service, 2001a) (Table 6).

Table 6. Number of farms by ownership type and farm type, Statewide, 1982 and 1997

| Land in farms according to use | All farms |        | All farms w/cattle, sheep and goats |        | Beef cattle farms excluding feedlots |       |                    |      | Sheep and goat farms and feedlots |       |
|--------------------------------|-----------|--------|-------------------------------------|--------|--------------------------------------|-------|--------------------|------|-----------------------------------|-------|
|                                |           |        |                                     |        | All farms                            |       | Farms 2,000+ acres |      |                                   |       |
|                                | 1982      | 1997   | 1982                                | 1997   | 1982                                 | 1997  | 1982               | 1997 | 1982                              | 1997  |
| California                     |           |        |                                     |        |                                      |       |                    |      |                                   |       |
| Full owners                    | 60,436    | 53,878 | 21,093                              | 12,180 | 10,094                               | 6,850 | 446                | 422  | 6,449                             | 2,632 |
| Part owners                    | 12,669    | 10,888 | 6,073                               | 4,765  | 3,021                                | 2,989 | 737                | 710  | 1,048                             | 474   |
| Tenants                        | 9,195     | 9,360  | 3,420                               | 2,801  | 1,735                                | 1,671 | 228                | 305  | 782                               | 367   |

□ = Forest and rangeland farms

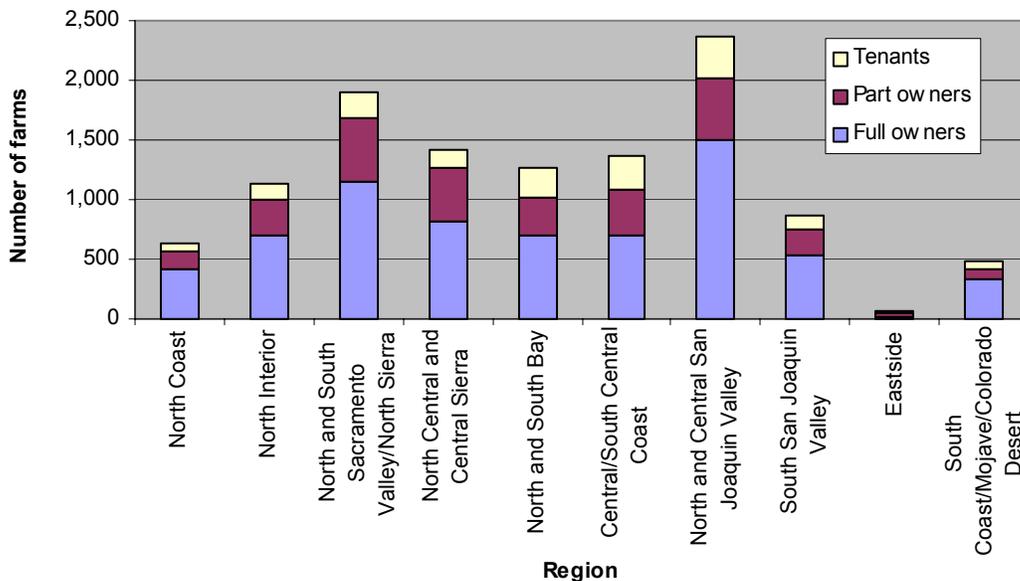
Source: National Agricultural Statistics Service, 2001a

As shown in Figure 6, full ownerships were the dominant form of beef cattle farm ownership within all agricultural census regions in 1997. Full ownership has declined within every region since 1982. Full ownerships on beef cattle farms decreased regionally much more sharply within the North/South Bay and the South Coast/Mojave/Colorado Desert between 1982 and 1997. In contrast, the North Interior and Central/South Central Coast decreased at a much slower rate than the State average. Part owner farms experienced large decreases between 1982 and 1997 within the North/South Bay and the South Coast/Mojave/Colorado Desert regions. Part owner farms increased within the North/South Sacramento Valley/North Sierra, Central/South Central Coast, South San Joaquin Valley, and Eastside regions (National Agricultural Statistics Service, 2001a).

Tenant beef cattle farms excluding feedlots have decreased more dramatically within the North Coast, North/South Bay, and South Coast/Mojave/Colorado Desert regions between 1982 and 1997. Tenant beef cattle farms have increased within the North Interior, North Central/Central Sierra, Central/South Central Coast, North/Central San Joaquin Valley, and Eastside regions (National Agricultural Statistics Service, 2001a).

Regionally, full owner, part owner, and tenant beef cattle farms excluding feedlots decreased much more rapidly on smaller farms between 1982 and 1997. As farm size increases, farm losses become less dramatic and in some cases increase. On average, all California regions reflect this trend (National Agricultural Statistics Service, 2001a). For more regional information, see Appendix C.

Figure 6. Number of beef cattle farms excluding feedlots by ownership, regional, 1997



Source: National Agricultural Statistics Service, 2001a

## Acreeage of farms in full ownership, part ownership, and renters

By acreage, farms within the range livestock industry in full ownership constitute about 29 percent of the acreage in California. Part owners make up just over 50 percent of acreage with tenants controlling 20 percent. This division reflects the fact that in the beef cattle industry, farmers often rent additional pasturage to supplement forage on their range. This is especially true on large farms, as over 80 percent of part owner and tenant acreage is associated with farms over 2,000 acres in size (National Agricultural Statistics Service, 2001a).

The relative proportion of acres controlled by the three classes of owners was about the same in both 1992 and 1997. There was a decline of about a million acres in beef cattle farms between these years and most of this was reflected in fewer acres under part ownership (National Agricultural Statistics Service, 2001a) (Table 7).

*By acreage, farms within the range livestock industry in full ownership constitute about 29 percent of the acreage while part owners control 50 percent and tenants 20 percent.*

Table 7. Farms by ownership type and farm type (thousands of acres), Statewide, 1992 and 1997

| Land in farms according to use | All farms |        | All farms w/cattle, sheep and goats |       | Beef cattle farms excluding feedlots |       |                    |       | Sheep and goat farms and feedlots |      |
|--------------------------------|-----------|--------|-------------------------------------|-------|--------------------------------------|-------|--------------------|-------|-----------------------------------|------|
|                                | 1992      | 1997   | 1992                                | 1997  | All farms                            |       | Farms 2,000+ acres |       | 1992                              | 1997 |
|                                |           |        |                                     |       | 1992                                 | 1997  | 1992               | 1997  |                                   |      |
| California                     |           |        |                                     |       |                                      |       |                    |       |                                   |      |
| Full owners                    | 9,378     | 9,928  | 5,745                               | 5,704 | 4,296                                | 4,134 | 3,080              | 3,047 | 483                               | 238  |
| Part owners                    | 13,832    | 12,569 | 10,121                              | 8,947 | 7,732                                | 6,995 | 6,715              | 5,965 | 770                               | 580  |
| Tenants                        | 5,769     | 5,202  | 3,761                               | 3,343 | 2,699                                | 2,616 | 2,225              | 2,088 | 738                               | 428  |

 = Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

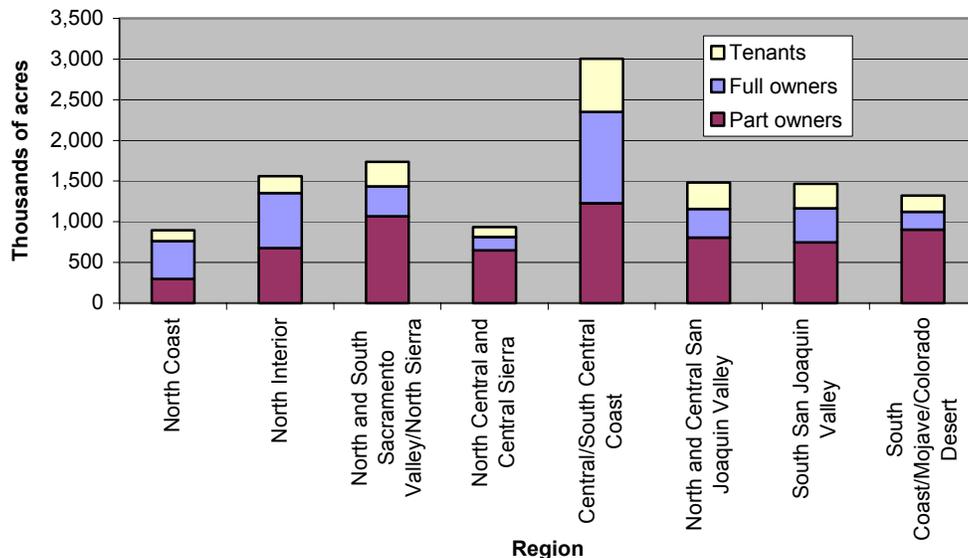
Due to disclosure issues, the North Interior, North/South Bay, and Eastside regions lack sufficient data to be included in a comprehensive regional analysis of farm ownership acres. An analysis of farm acres within the agricultural census data was limited to the years 1992 and 1997 due to lack of data being disclosed.

Regionally, except for the North Coast and North Interior regions, part owners held the majority of beef cattle farm acreage excluding feedlots in 1997. The North Central/Central Sierra and South Coast/Mojave/Colorado Desert regions had very high proportions of their respective acreages under part ownership. Tenant acreage was stable consisting between 13 and 22 percent of each region's respective acreage (Figure 7) (National Agricultural Statistics Service, 2001a).

Between 1992 and 1997, full owner acreage on beef cattle farms excluding feedlots increased 13 percent in the North Coast and 14 percent in the Central/South Central Coast regions. All other regions had decreases, the largest of which occurred within the North Central/Central Sierra and North/South Sacramento Valley/North Sierra. Part owner acres increased 10 percent in the North Central/Central Sierra and four percent in the Central/South Central Coast. All other regions decreased. Tenant farm acres increased 11 percent in the North Central/Central Sierra, five percent in the Central/South Central Coast,

and 52 percent in the North/Central San Joaquin Valley. All other regions decreased (National Agricultural Statistics Service, 2001a). For more regional information, see Appendix D.

Figure 7. Acreage in beef cattle farms excluding feedlots by ownership, regional, 1997



*Eastside and North/South Bay not included due to withheld data*

*Source: National Agricultural Statistics Service, 2001a*

### Operator characteristics—principal occupation and length of ownership

Statewide, in 1997, just over 53 percent of operators had farming as their principal occupation. However, in the range livestock industry between 45 and 47 percent of operators listed farming as their principal occupation. On beef cattle farms within the range livestock industry, 60 percent of operators on farms less than 500 acres had principal occupations other than farming; for farms 500 acres or greater, over 66 percent of the operators indicated that farming was their principal occupation (National Agricultural Statistics Service, 2001a) (Table 8). These percentages are approximately the same as 1992.

Within the range livestock industry, beef cattle farms less than 50 acres have more owners that are new. This is consistent with land development patterns in California that move away from urban areas in increasing parcel size from one acre outward to progressively larger parcels of 40 acres plus. These landowners usually have other sources of income. Livestock is secondary or highly specialized, such as raising calves or prize bulls. On larger parcels where there are a smaller percentage of owners indicating sources of income other than ranching, owners may be more sensitive to economic pressures from low profit.

In 1997, the average number of years for operators on all farms in California was 17.6 years. On beef cattle farms within the range livestock industry, the average was 19.4 years; this is up from 18 years in 1992. Over 68 percent of the operators on beef cattle farms had spent 10 or more years on the farm. Just over 65 percent of total operators on beef cattle farms of less than 50 acres have served on that farm 10 years or more; this number rises to 75 percent on farms greater than 2,000 acres (National Agricultural Statistics Service, 2001a).

Table 8. Number of operators by principal occupation and years on present farm, Statewide, 1992 and 1997

| Land in farms according to use | All farms |        | All farms w/cattle, sheep and goats |        | Beef cattle farms excluding feedlots |       |                    |       | Sheep and goat farms and feedlots |       |
|--------------------------------|-----------|--------|-------------------------------------|--------|--------------------------------------|-------|--------------------|-------|-----------------------------------|-------|
|                                | All farms |        | All farms                           |        | All farms                            |       | Farms 2,000+ acres |       | All farms                         |       |
|                                | 1992      | 1997   | 1992                                | 1997   | 1992                                 | 1997  | 1992               | 1997  | 1992                              | 1997  |
| California                     |           |        |                                     |        |                                      |       |                    |       |                                   |       |
| Principal occupation           |           |        |                                     |        |                                      |       |                    |       |                                   |       |
| Farming                        | 40,215    | 39,267 | 11,267                              | 10,227 | 6,003                                | 5,452 | 1,180              | 1,127 | 1,576                             | 1,327 |
| Other                          | 37,454    | 34,859 | 10,516                              | 9,519  | 6,285                                | 6,058 | 282                | 310   | 2,738                             | 2,146 |
| Total                          |           |        |                                     |        |                                      |       |                    |       |                                   |       |
| Years on present farm          |           |        |                                     |        |                                      |       |                    |       |                                   |       |
| 2 or less                      | 4,239     | 4,041  | 1,169                               | 969    | 641                                  | 556   | 56                 | 42    | 244                               | 204   |
| 3 or 4                         | 7,526     | 5,272  | 1,820                               | 1,362  | 973                                  | 763   | 66                 | 74    | 451                               | 300   |
| 5 to 9                         | 13,886    | 12,214 | 3,466                               | 3,183  | 1,833                                | 1,756 | 152                | 186   | 929                               | 717   |
| 10+                            | 42,172    | 41,946 | 12,055                              | 11,276 | 6,806                                | 6,584 | 930                | 926   | 2,147                             | 1,845 |
| Average                        | 16        | 18     | 17                                  | 19     | 18                                   | 19    | 23                 | 24    | N/A                               | N/A   |
| Farms not reported             | 9,846     | 10,653 | 3,273                               | 2,956  | 2,035                                | 1,851 | 258                | 209   | 543                               | 407   |

= Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

Regionally, with the exception of the Eastside Region, the percentage of operators on beef cattle farms with farming as the principal occupation are within 10 percent of the state average. In the Eastside Region, a much higher proportion of farmers list farming as their principal occupation (National Agricultural Statistics Service, 2001a).

In 1997, operators with more than 10 years of service on beef cattle farms except feedlots mirrored the statewide average in every region except the North/South Bay. The North/South Bay had a larger proportion of operators with more than 10 years of service than all other regions (National Agricultural Statistics Service, 2001a).

In 1997, operators with less than five years of service on beef cattle excluding feedlots differed from the California state average in four of the agricultural census regions. The North/South Bay and North Coast regions have a smaller proportion of operators with less than five years experience than the statewide average. The North Interior region had a large proportion of operators with less than five years experience than the statewide average (National Agricultural Statistics Service, 2001a). For more regional information, see Appendix E.

### Findings on production of sheep, lambs, and wool

In the United States, sheep operations can be characterized as herded range flocks, fenced range flocks, and farm flocks. In 1996, herded range flocks accounted for only one percent of the total operations with sheep in the U.S, but they included almost 19 percent of the U.S. sheep inventory. Ten percent of U.S. sheep operations were fenced range flocks containing about 37 percent of total U.S. sheep inventory. Farm flocks comprised almost 85 percent of the U.S. operations and about 35 percent of the U.S. sheep inventory. Two common sheep varieties include black face and fine wool white face sheep. See [Reference of 1996 U.S. Sheep Health and Management Practices](#).

In California, sheep and lamb operations typically reflect factors such as the climate, season, elevation, and available feed. In many lower elevation locations, ranchers use alfalfa hay in the fall and then graze foothill pastures. Sheep may be transported to higher elevation mountain ranges where excellent forage exists. In other cases, sheep and lambs are grazed on irrigated pastures with a cover crop such as clover. Sheep in the foothills seldom share pasture with cattle. See [Appendix A, California's Livestock Industries in: Potential Impact of Foot and Mouth Disease in California](#).

The primary product of the sheep industry in the United States is lambs. Lambs are immature sheep, younger than 12 months old at time of slaughter. Lamb meat is more valuable than sheep meat (mutton), so most animals raised for meat are slaughtered as lambs. The domestic lamb industry in the United States can be divided into four sectors: producers, feeders, packers, and processors (called “breakers”).

*The primary product of the sheep industry in the United States is lambs.*

The category of growers include breeders who raise purebred animals and sell rams for breeding purposes and commercial market lamb producers who keep flocks for the production of feeder or slaughter lambs. In the United States, lambs are generally born in the spring and range-fed until fall, when they are sent to feeders. California is an exception to this because of its mild climate. Lamb is available throughout the year. In some locations, mild seasons allow fall born lambs to be sold for feeders market directly from weaning in the spring. In other locations, spring born lambs will be available from summer through winter.

Feeders include the maintenance of feedlots where lambs are fed on grain or other food until they reach slaughter weight, typically 30 to 120 days. Feeders then send them to packers for slaughter. Packers then further process the lamb into various cuts. The cuts are then sold to non-processor wholesalers or retail outlets. Most domestically produced lamb meat is sold fresh or chilled (U.S. International Trade Commission, 1999).

### **Description of sheep information**

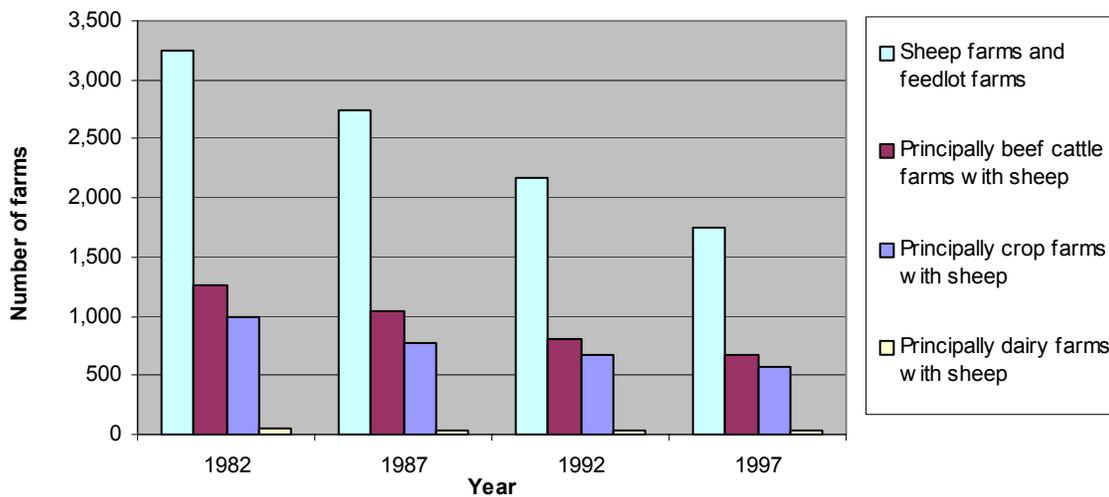
NASS data received by FRAP does not permit much detailed analysis about sheep and lamb farms. Unlike cattle characteristics where beef cattle farms excluding feedlots can pinpoint forest and rangeland use in California, the majority of sheep characteristics involving the use of forest and rangelands is broadly lumped into a residual category that includes sheep, goat, and feedlot farms. In addition, a proportion of the sheep inventory is lumped into the beef cattle farm excluding feedlot, principally crop farm and dairy farm category types. Within this section, information for sheep is displayed using all farm types that have a sheep and lamb presence since it is unable to calculate the extent of forest and rangeland use by the industry. Sheep and lamb characteristics are presented using the following:

- Sheep farms (number of farms)
- Sheep inventory (number of farms with herd size ranges, number of head)
- Sheep and lamb production and value (value of sheep, lambs, and wool sold; number of sheep and lambs sold)

## Sheep and lamb farms

In 1997, NASS reports that there were 3,014 farms in California with sheep and lamb inventory. The detailed accounting for beef cattle farms excluding feedlots provides information for only 22 percent of all sheep and goat farms. Dairy and crop farms account for another 20 percent. However, from the data, it is clear that sheep and lamb farms are not a significant part of beef cattle operations; to the extent that sheep are present, they are much more likely to be found on ranches less than 500 acres in size. Total farms with sheep and lambs have declined 46 percent between 1982 and 1997. All farm types with sheep and lambs have had similar declines during the same period (National Agricultural Statistics Service, 2001a) (Figure 8).

Figure 8. All farms with sheep and lambs by farm category, Statewide, 1982, 1987, 1992, and 1997



Source: National Agricultural Statistics Service, 2001a

Table 9. Number of farms with sheep and lambs by farm type, Statewide, 1982-1997

| Year | All farms with cattle sheep and goats | Principally crop farms | Beef cattle farms excluding feedlots | Dairy farms | Sheep and goat farms and feedlot farms |
|------|---------------------------------------|------------------------|--------------------------------------|-------------|--|
| 1982 | 5,565                                 | 993                    | 1,261                                | 58          | 3,253                                  |
| 1987 | 4,602                                 | 778                    | 1,040                                | 40          | 2,744                                  |
| 1992 | 3,692                                 | 667                    | 809                                  | 40          | 2,176                                  |
| 1997 | 3,014                                 | 568                    | 667                                  | 27          | 1,752                                  |

Source: National Agricultural Statistics Service, 2001a

## Sheep and lamb inventory

NASS data shows a decline in sheep and lamb inventory between 1992 and 1997 (Table 10). Between 1992 and 1997, sheep inventory on all farms dropped from about 860,000 head to 784,000 head, a decline of about eight percent. NASS information from Table 8 also provides information on the inventory of sheep and lambs by farm type. The majority (75 percent) of the sheep and lamb inventory is located on sheep and goat farms or feedlots. These farms contain most of the sheep inventory associated with the forest and range livestock sector (National Agricultural Statistics Service, 2001a).

Table 10. Sheep and lambs inventory by number of head, statewide, 1992 and 1997

| Year | All farms | Farms with cattle, sheep or goats  |                        |                                |                  |                    |                      |                    |               |                                  |
|------|-----------|------------------------------------|------------------------|--------------------------------|------------------|--------------------|----------------------|--------------------|---------------|----------------------------------|
|      |           | All farms w/cattle sheep and goats | Principally crop farms | Beef cattle excluding feedlots |                  |                    |                      |                    | Dairy farms * | Sheep and goat farms or feedlots |
|      |           |                                    |                        | All farms                      | Farms 1-49 acres | Farms 50-499 acres | Farms 500-1999 acres | Farms 2,000+ acres |               |                                  |
| 1992 | 859,835   | 859,835                            | 92,356                 | 74,183                         | 3,971            | 9,626              | 13,628               | 46,958             | 7,626         | 685,670                          |
| 1997 | 784,041   | 784,041                            | 89,138                 | 105,677                        | N/A              | N/A                | 3,298                | 84,200             | 7,626         | 581,600                          |

\* 1992 numbers supplanted when 1997 was unavailable

Source: National Agricultural Statistics Service, 2001a

Farm inventory by herd size can also be used to estimate the inventory of sheep and lambs when inventories are not reported due to disclosure issues. The majority of farms with sheep and lambs had small herd sizes. Eighty-eight percent of farms with sheep and lambs had herd sizes less than 100 head in 1997. Farms with over 1,000 head, although small in numbers, constitute a significant proportion of the inventory. One hundred and ten farms with sheep and lambs reported having inventories greater than 1,000 head in 1997. Approximately 500,000 to 600,000 sheep and lambs reside on farms greater than 1,000 head. These farms with large herd sizes hold between 68 and 79 percent of total sheep and lamb inventory (National Agricultural Statistics Service, 2001a) (Table 7).

Table 11. Number of farms with sheep and lambs by farm type and herd size, statewide, 1982-1997

| Year and herd size                 | All farms w/cattle sheep and goats | Principally crop farms | Beef cattle farms excluding feedlots | Dairy farms | Sheep and goat farms and feedlot farms |
|------------------------------------|------------------------------------|------------------------|--------------------------------------|-------------|--|
| Sheep/lambs (all farms)            |                                    |                        |                                      |             |  |
| 1982                               | 5,565                              | 993                    | 1,261                                | 58          | 3,253                                  |
| 1987                               | 4,602                              | 778                    | 1,040                                | 40          | 2,744                                  |
| 1992                               | 3,692                              | 667                    | 809                                  | 40          | 2,176                                  |
| 1997                               | 3,014                              | 568                    | 667                                  | 27          | 1,752                                  |
| Sheep/lambs (farms w/1-24 head)    |                                    |                        |                                      |             |  |
| 1982                               | 3,668                              | 671                    | 922                                  | 46          | 2,029                                  |
| 1987                               | 2,826                              | 527                    | 743                                  | 26          | 1,530                                  |
| 1992                               | 2,274                              | 463                    | 565                                  | 23          | 1,223                                  |
| 1997                               | 1,894                              | 407                    | 483                                  | 16          | 988                                    |
| Sheep/lambs (farms w/25-99 head)   |                                    |                        |                                      |             |  |
| 1982                               | 1,083                              | 167                    | 215                                  | 4           | 697                                    |
| 1987                               | 1,089                              | 138                    | 205                                  | 7           | 739                                    |
| 1992                               | 875                                | 114                    | 155                                  | 9           | 597                                    |
| 1997                               | 746                                | 95                     | 133                                  | 8           | 510                                    |
| Sheep/lambs (farms w/100-299 head) |                                    |                        |                                      |             |  |
| 1982                               | 359                                | 68                     | 79                                   | 2           | 210                                    |
| 1987                               | 303                                | 54                     | 53                                   | 4           | 192                                    |
| 1992                               | 264                                | 44                     | 50                                   | 5           | 165                                    |
| 1997                               | 189                                | 30                     | 34                                   | 2           | 123                                    |
| Sheep/lambs (farms w/300-999 head) |                                    |                        |                                      |             |  |
| 1982                               | 214                                | 38                     | 32                                   | 4           | 140                                    |
| 1987                               | 185                                | 24                     | 26                                   | 2           | 133                                    |
| 1992                               | 132                                | 18                     | 28                                   | 1           | 85                                     |
| 1997                               | 75                                 | 16                     | 9                                    | 0           | 50                                     |
| Sheep/lambs (farms w/1,000+ head)  |                                    |                        |                                      |             |  |
| 1982                               | 241                                | 49                     | 13                                   | 2           | 177                                    |
| 1987                               | 199                                | 35                     | 13                                   | 1           | 150                                    |
| 1992                               | 147                                | 28                     | 11                                   | 2           | 106                                    |
| 1997                               | 110                                | 20                     | 8                                    | 1           | 81                                     |

Source: National Agricultural Statistics Service, 2001a

Within the agricultural census regions, sheep inventory is withheld due to disclosure issues, however, we can use farm inventory by herd size to estimate the sheep and lamb inventory within these regions. Much like the statewide average, the majority of farms with sheep and lambs have small herd sizes; however, the majority of the inventory is in farms that have herd sizes greater than 1,000 (National Agricultural Statistics Service, 2001a).

The North Interior, North Coast, North Central/Central Sierra, Central/South Central Coast, and Eastside agricultural census regions all had small inventories of sheep and lambs ranging from 7,000 to 37,000 head in 1997. The majority of these inventories resided on farms less than 1,000 head, only the Eastside and North Interior regions had the majority of their sheep and lamb inventories residing on farms greater

*The majority of farms with sheep and lambs have small herd sizes; however, the majority of the inventory is in farms that have herd sizes greater than 1,000.*

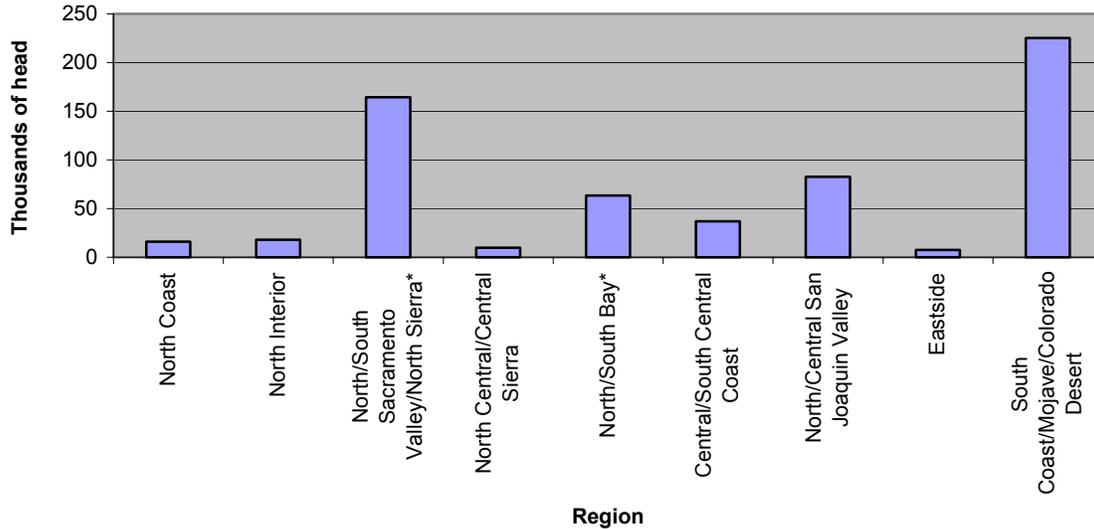
than 1,000 head. These regions also saw inventories decrease substantially between 1992 and 1997 (National Agricultural Statistics Service, 2001a).

The North/South Bay and North/Central San Joaquin Valley regions had moderate sheep and lamb inventories in 1997. Between 70 and 90 percent of the sheep and lamb inventory in the North/Central San Joaquin Valley is located on farms with herd sizes greater than 1,000 head. Within these two regions, a large proportion of farms with sheep and lambs fall into the “sheep and goat farms and feedlot farms” category type (National Agricultural Statistics Service, 2001a). Solano County, in particular, has a large feedlot presence.

The North/South Sacramento/North Sierra, South San Joaquin, and South Coast/Mojave/Colorado Desert agricultural census regions had large sheep and lamb inventories (National Agricultural Statistics Service, 2001a). The largest concentration of sheep in the State is recorded in the Southern Joaquin Valley (especially Kern and Fresno counties). However, the location changes with the season and condition of the pastures. In summer and fall, sheep are concentrated into alfalfa fields and unfenced pastures in the Southern Joaquin Valley; in the winter they are transported to pastures in the Imperial Valley, Northern California, or to other states.

As Figure 9 shows, the majority of the inventory is within the North/South Sacramento Valley/North Sierra and the South Coast/Mojave/Colorado Desert. In addition, the South San Joaquin Valley, which is not shown in Figure 10, is believed to hold a significant portion of the inventory, however, the data was withheld and an accurate count of the inventory is unavailable. The South Coast/Mojave/Colorado Desert region held 29 percent of California’s sheep and lamb inventory and only one to seven percent of the inventory was located on farms with less than 1,000 head in 1997. The sheep and lamb inventory within the South Coast/Mojave/Colorado Desert region increased 53 percent between 1992 and 1997. The South San Joaquin region did hold the most farms with inventories greater than 1,000 head in California followed by the South Coast/Mojave/Colorado Desert and North/South Sacramento/North Sierra regions. The North/South Sacramento/North Sierra held 19 percent of the total sheep and lamb inventory in 1992 and likely held close to the same percentage in 1997. Between 53 and 87 percent of the sheep and lamb inventory within the North/South Sacramento/North Sierra region resided on farms greater than 1,000 head in 1992 (National Agricultural Statistics Service, 2001a). For more regional information, see Appendix F.

Figure 9. Sheep and lamb inventory, regional, 1997



South San Joaquin Valley omitted due to withheld data

Source: National Agricultural Statistics Service, 2001a

### Sheep and lamb production and value

Sheep, lamb, and wool sales reached \$49 million in 1997. Seventy-nine percent of the value of sheep, lamb, and wool sold (\$39 million) came from the “sheep and goat farms and feedlot farms” farm type. All other farm types had sales of less than \$6 million in 1997 (National Agricultural Statistics Service, 2001a) (Table 12). Insufficient data exists to display 1992 data or perform a regional analysis of sheep and lamb sales.

Table 12. Value of sheep, lambs and wool sold by farm type, statewide (\$1,000)

| Year | All farms with cattle sheep and goats | Principally crop farms | Beef cattle farms excluding feedlots | Dairy farms | Sheep and goat farms and feedlot farms |
|------|---------------------------------------|------------------------|--------------------------------------|-------------|--|
| 1997 | 48,983                                | 5,833                  | 4,215                                | 119         | 38,816                                 |

Source: National Agricultural Statistics Service, 2001a

Mirroring the value of sheep, lambs, and wool sold, 80 percent of sheep and lambs sold originated from the farm type “sheep and goat farms and feedlot farms” in 1997. Small amounts of sheep and lambs were sold from other farm types in 1997 (National Agricultural Statistics Service, 2001a) (Table 13). Insufficient data exists to display 1992 data or perform a regional analysis of sheep and lamb sales.

Table 13. Number of sheep and lambs sold, statewide, 1997

| Year | All farms w/cattle sheep and goats | Principally crop farms | Beef cattle farms excluding feedlots | Dairy farms * | Sheep and goat farms and feedlot farms |
|------|------------------------------------|------------------------|--------------------------------------|---------------|--|
| 1997 | 560,581                            | 58,233                 | 49,512                               | 5,224         | 447,612                                |

\* 1992 number substituted for unavailable 1997 number  
Source: National Agricultural Statistics Service, 2001a

## Findings on cattle and calves

### California beef inventory, sales, and production characteristics

In California, there are three primary types of beef cattle operations: cow-calf, stocker, and feedlot. Cow-calf operations keep a herd of cows to breed along with replacement heifers and bulls. Steer calves and most heifer calves are sold, but a few heifers are held to enter the breeding herd. Calves are sold at time of weaning or are held as stockers. Seedstock operations are specialized cow-calf operations that seek to make genetic improvements in cattle.



*Cow-calf operations*

Stocker operations grow steer and/or heifer calves or yearlings on range forage or other roughages. Commonly, cattle are obtained following weaning in the fall. They are wintered on low quality feed until spring grass can adequately support the animals. Grazing seasons depend on a variety of conditions such as geography and climate. Stocker cattle typically are sent to feedlots at the end of the grazing season when the nutritional value of the forage starts to decline.

Feedlots concentrate large numbers of cattle in specialized facilities that can efficiently feed and water the animals. Supplements can be added to the feed and high-energy value can be maintained. Feedlot cattle more quickly reach market weights.

Calves or stocker cattle usually remain on rangelands or pastures until they weigh 700 to 900 pounds. Northern California supplies 700-900 pound cattle to feedlots in other regions. Cow-calf and stocker operations are the most common because they can make the most use of available forage (CH2Mhill, 1989).

Calves and yearlings then are moved to feedlots for 120 to 150 days where they receive a high-energy diet of feeds and where nutritional stress is minimized. This regimen shortens the time to finish the cattle into a market weight of 1,150 to 1,250 pounds. Feedlots in the desert regions of the State can receive cattle weighing 300 to 450 pounds.

***Most cattle produced in California are crossbred to combine or match wanted characteristics from two or more breeds.***

Most beef cattle produced in California are crossbred to combine or match wanted characteristics from two or more breeds. In a particular region, crossbreeding may focus on different traits. Selection of a breed or breeds is based on many things, such as desired characteristics, personal preference, effort, and market demand. Seedstock and cow-calf producers may use artificial insemination to improve the genetics of the various breeds used in the herds.

Beef cattle can reproduce throughout the year. This allows producers more flexibility to adjust breeding to have cows calve at the most favorable time of the year. Although calving may occur at any time, it usually occurs in the fall and spring. Puberty normally occurs in both bulls and heifers by the time they are six to 18 months old. The age of puberty is related to the breed and environmental factors such as

climate and forage condition. California differs from many other states in that 60-70 percent of its calf crop is born in the fall and overwinters with its mother on winter pasture (Hoyt, 2002).

Beef cattle may achieve sexual maturity and enter the breeding herd as yearlings. Bulls can breed a limited number of heifers or cows as yearlings. Heifers may be successfully bred as yearlings (14 to 16 months of age) to calve for the first time at two years of age.

The gestation period for a cow is approximately nine months. Typically, beef cows are bred to calve every 12 months during their productive lives. Beef cows usually remain in full production for five to eight years or more. Bulls remain in service for four to six years in commercial breeding herds. Superior animals in purebred herds may stay in production longer, depending on their breeding value.

Historically, over 90 percent of the State's beef herd has been located in four geographic regions: Northern Sacramento, Northern Mountain, Central Coast, and San Joaquin Valley. Today, the San Joaquin Valley has the largest single percentage of the beef herd.

There is substantial movement of cattle into and out of California. Because of abundant grassland, it is common for operators to purchase cattle from outside California, ship them to California to eat the winter and spring grass, and send these animals out-of-state for finishing and processing (Ekboir, 1999).

### **Description of cattle information**

Cattle information is displayed using the "beef cattle excluding feedlots" farm category type. In addition, the "beef cattle excluding feedlots" category type is further divided into acreage sizes. These farm category types detail the majority of the cattle industry that utilizes forest and rangeland. The following characteristics are used to describe the cattle industry:

- Cattle farms (number of farms, farms utilizing forage resources, farm acreage, farm acreage utilizing forage resources);
- Cattle inventory (number of head, farms with herd size ranges);
- Value of cattle sold; and
- Number of cattle sold.

### **Beef cattle farms excluding feedlots**

In 1997, there were over 11,500 beef cattle farms excluding feedlots in California. Nearly 72 percent of these farms are less than 500 acres in size. The number of beef cattle farms has declined 22 percent between 1982 and 1997. The majority of this decline has been in farms less than 500 acres in size. Farms greater than 2,000 acres have slightly increased over the same period. Farm declines diminish as the size of the farm increases (National Agricultural Statistics Service, 2001a) (Table 14).

Table 14. Number of beef cattle farms excluding feedlots, Statewide, 1982, 1987, 1992 and 1997

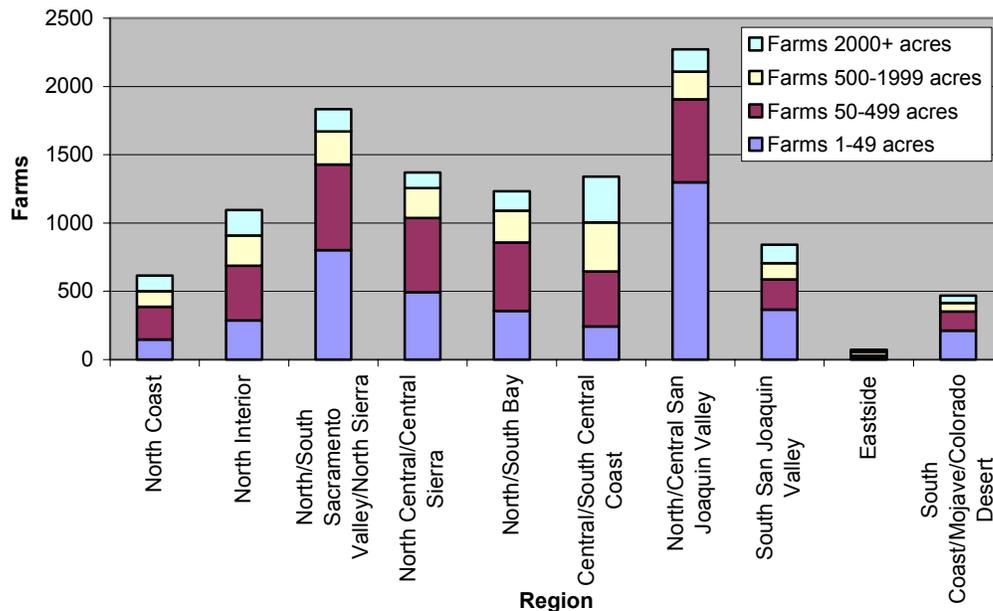
| Year | All Farms | Farms 1-49 Acres | Farms 50-499 Acres | Farms 500-1999 Acres | Farms 2,000+ Acres |
|------|-----------|------------------|--------------------|----------------------|--------------------|
| 1982 | 14,850    | 7,342            | 4,234              | 1,863                | 1,411              |
| 1987 | 14,092    | 6,112            | 4,406              | 2,053                | 1,521              |
| 1992 | 12,288    | 5,044            | 3,930              | 1,852                | 1,462              |
| 1997 | 11,510    | 4,452            | 3,794              | 1,827                | 1,437              |

□ = Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

The North/Central San Joaquin Valley agricultural census region held 23 percent of California's beef cattle farms excluding feedlots with cattle inventories in 1997. Regionally, with the exception of the Eastside and Central/South Central Coast regions, the majority of farms are less than 500 acres in size (Figure 10). Most regions saw farm declines similar to the statewide average. The North Interior and Central/South Central Coast had minor farm declines between 1982 and 1997. Farms declined more severely within the North/South Bay and South Coast/Mojave/Colorado Desert regions between 1982 and 1997 (National Agricultural Statistics Service, 2001a). For more regional information, see Appendix G.

Figure 10. Beef cattle farms excluding feedlots by farm size, regional, 1997



Source: National Agricultural Statistics Service, 2001a

The range livestock industry utilizes cropland, woodland, and pasture/range for forage. Ranches may use some or all of these resources. The majority of beef cattle farms used cropland and pasture/range other than woodland for grazing in 1997. Farms greater than 2,000 acres had a greater dependence on pasture/range other than cropland or woodland for grazing than smaller farms (National Agricultural Statistics Service, 2001a) (Figure 11).

The number of beef cattle farms utilizing forage resources has declined since 1982; however, farms using pasture and range other than cropland or woodland has declined 4 percent compared to 26 to 31 percent for all other forage resources. The sharpest declines are occurring on farms less than 500 acres (Table 15) (National Agricultural Statistics Service, 2001a).

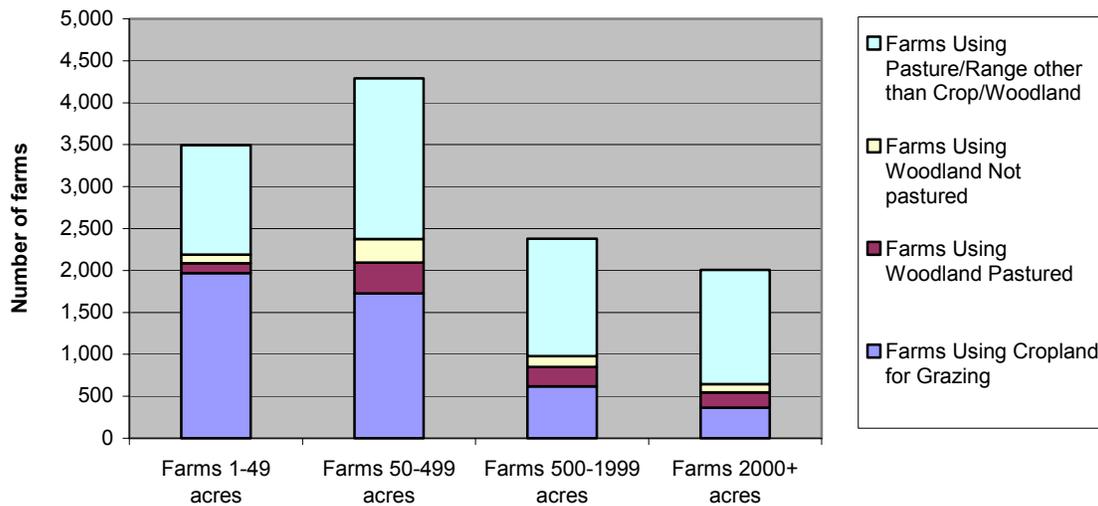
Table 15. Number of beef cattle farms excluding feedlots using forage resources by farm size, Statewide, 1982 and 1997

| Land in farms according to use                     | All farms with beef cattle |        | Beef cattle farms 1-49 acres |       | Beef cattle farms 50-499 acres |       | Beef cattle farms 500-1999 acres |       | Beef cattle farms 2,000+ acres |       |
|--|----------------------------|--------|------------------------------|-------|--------------------------------|-------|----------------------------------|-------|--------------------------------|-------|
|  | 1982                       | 1997   | 1982                         | 1997  | 1982                           | 1997  | 1982                             | 1997  | 1982                           | 1997  |
| California   |                            |        |                              |       |                                |       |                                  |       |                                |       |
| Number of farms                                    | 14,850                     | 11,510 | 7,342                        | 4,452 | 4,234                          | 3,794 | 1,863                            | 1,827 | 1,411                          | 1,437 |
| Farms using cropland for grazing                   | 6,285                      | 4,680  | 3,240                        | 1,969 | 2,063                          | 1,727 | 677                              | 618   | 305                            | 366   |
| Farms using woodland pastured                      | 1,272                      | 895    | 243                          | 117   | 523                            | 366   | 290                              | 232   | 216                            | 180   |
| Farms using woodland not pastured                  | 889                        | 613    | 174                          | 104   | 418                            | 282   | 187                              | 127   | 110                            | 100   |
| Farms using pasture/range other than crop/woodland | 6,251                      | 5,980  | 1,770                        | 1,304 | 1,823                          | 1,916 | 1,332                            | 1,400 | 1,326                          | 1,360 |

□ = Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

Figure 11. Number of beef cattle farms excluding feedlots using forage resources by farm size, Statewide, 1997



Numbers are not additive since farms may use one, many or other forage resources

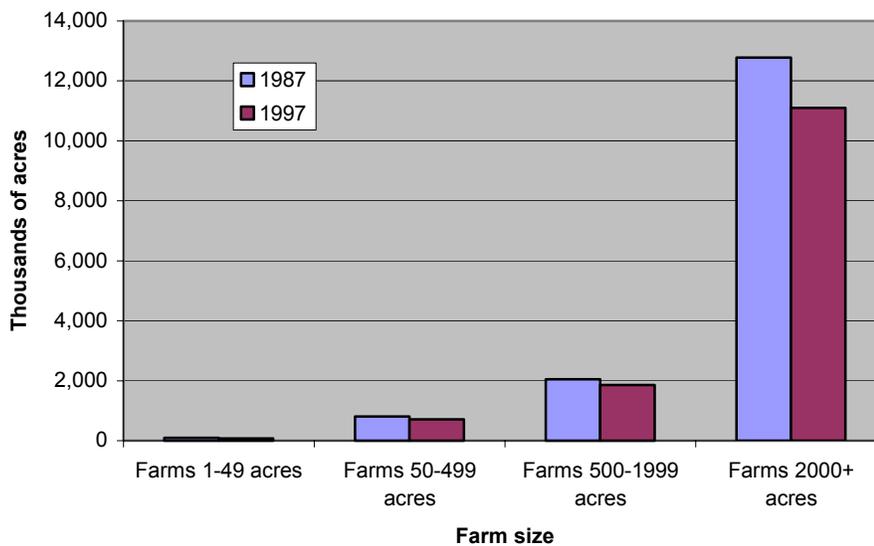
Source: National Agricultural Statistics Service, 2001a

The number of beef cattle farms excluding feedlots using woodland forage has decreased rapidly within the North/South Bay and South San Joaquin Valley regions. In contrast, the North Interior region has decreased at a much slower rate than the rest of the regions between 1982 and 1997. Farms on land other than cropland or woodland using forage have decreased rapidly within South Coast/ Mojave/ Colorado Desert and the North/South Bay regions. All other regions have had minimal farm declines and in some cases increased (National Agricultural Statistics Service, 2001a). For more regional information, see Appendix H.

**Beef cattle farm acreage excluding feedlots**

In 1997, the acreage in beef farms except feedlots in California was 13.7 million acres compared to 15.7 million in 1987. As seen in Figure 12, the largest acreage by far is owned by enterprises over 2,000 acres in size. Between 1987 and 1997, farm acreage has declined 13 percent (National Agricultural Statistics Service, 2001a).

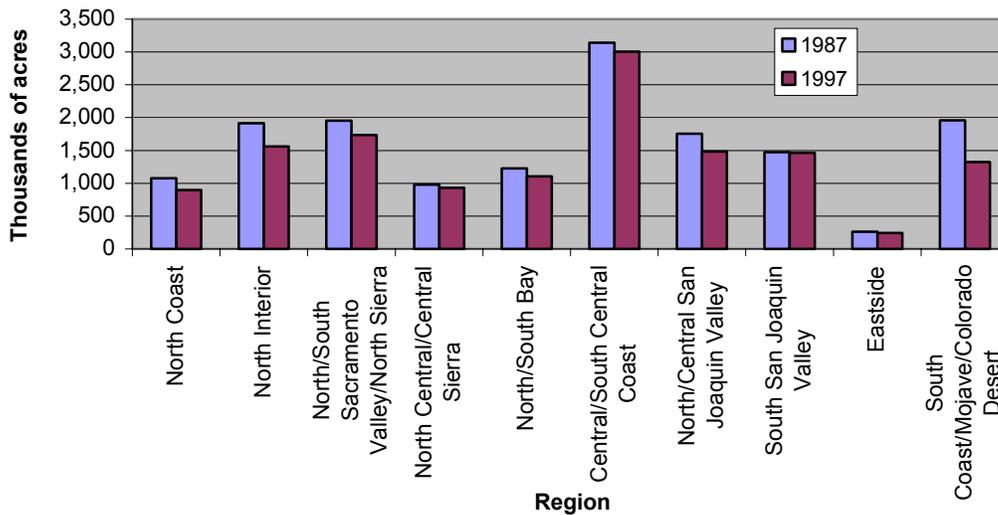
Figure 12. Acreage of beef cattle farms excluding feedlots by farm size, Statewide, 1987 and 1997



Source: National Agricultural Statistics Service, 2001a

The majority of beef cattle farm acreage is held within the Central/South Central Coast region. All regions have had acreage declines between 1987 and 1997. Most regions have had minimal acreage declines; however, the South Coast/Mojave/Colorado Desert region decreased 32 percent or 635,000 acres (National Agricultural Statistics Service, 2001a) (Figure 13). For more regional information, see Appendix I.

Figure 13. Acreage of beef cattle farms excluding feedlots, regional, 1987 and 1997



Source: National Agricultural Statistics Service, 2001a

In 1997, acreages utilized for forage from cropland, woodland, and pasture/range vary by owner. The largest use is of pasture and range other than cropland and woodland by farms over 500 acres. Farms greater than 2,000 acres dominate acreage used for grazing (Table 16). Due to disclosure reasons, a regional analysis cannot be completed on the amount of acreage farms are using as forage resources (National Agricultural Statistics Service, 2001a).

Table 16. Acreage used by beef cattle farms excluding feedlots as forage resources by farm size, Statewide, 1997

| Forage resources   | All beef cattle farms | Beef cattle farms 1-49 acres | Beef cattle farms 50-499 acres | Beef cattle farms 500-1999 acres | Beef cattle farms 2000+ acres |
|--|-----------------------|------------------------------|--------------------------------|----------------------------------|-------------------------------|
| Number farms   | 13,744,272            | 75,711                       | 713,527                        | 1,856,193                        | 11,098,841                    |
| Cropland acreage used for grazing  | 799,162               | 28,880                       | 218,765                        | 248,750                          | 302,767                       |
| Woodland, pastured, acreage used for grazing                             | 500,233               | 1,571                        | 37,624                         | 110,760                          | 350,278                       |
| Woodland, not pastured, acreage used for grazing                         | 204,403               | 1,004                        | 21,730                         | 38,326                           | 143,343                       |
| Pasture/range acreage, other than cropland or woodland, used for grazing | 11,347,526            | 21,921                       | 306,548                        | 1,268,835                        | 9,750,222                     |

□ = Forest and rangeland farms

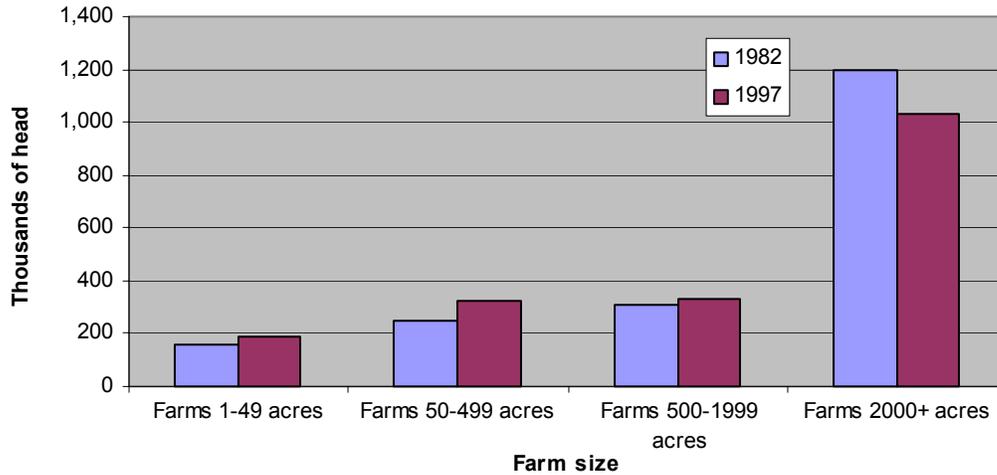
Numbers in columns are not additive since farms may use one, many or other forage resources

Source: National Agricultural Statistics Service, 2001a

### Cattle and calf inventory on beef cattle farms excluding feedlots

Cattle inventories on beef cattle farms excluding feedlots reached 1.9 million head in 1997. As shown in Figure 14, cattle inventories on all farm sizes were similar in both 1982 and 1997. Over half of the cattle inventory on beef cattle farms is located on farms greater than 2,000 acres. This was also true in 1982. The inventory has decreased on farms greater than 2,000 acres and increased within all over farm sizes (National Agricultural Statistics Service, 2001a).

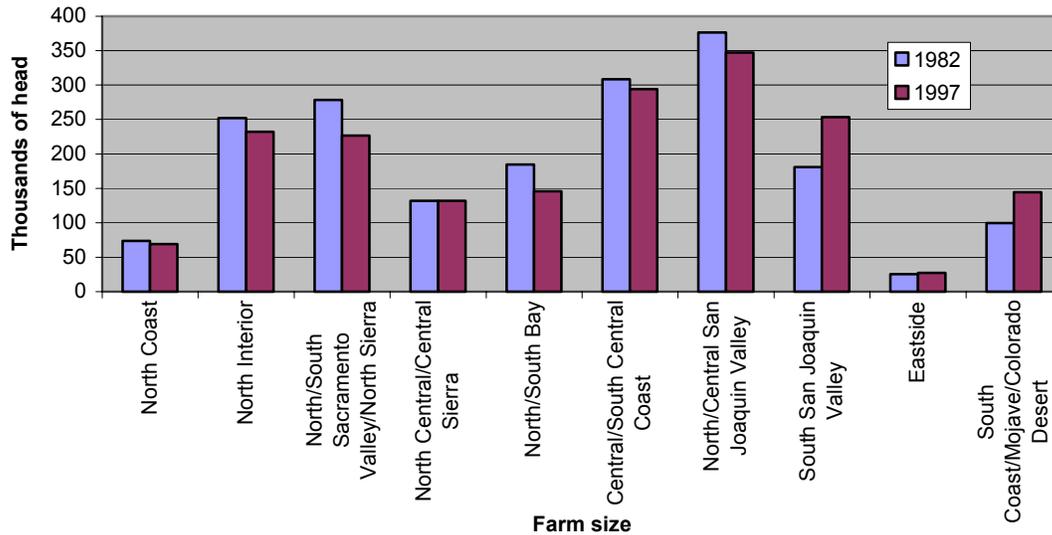
Figure 14. Cattle and calf inventory on beef cattle farms excluding feedlots by farm size, Statewide, 1992 and 1997



Source: National Agricultural Statistics Service, 2001a

Regionally, the majority of the cattle inventory located on beef cattle farms excluding feedlots resided within the North/Central San Joaquin Valley and Central/South Central Coast regions in 1997. Only the South San Joaquin Valley and South Coast/Mojave/Colorado Desert regions have had measurable inventory increases between 1982 and 1997 (Figure 15) (National Agricultural Statistics Service, 2001a). For more regional information, see Appendix J.

Figure 15. Cattle and calf inventory on beef cattle farms excluding feedlots, regional, 1982 and 1997

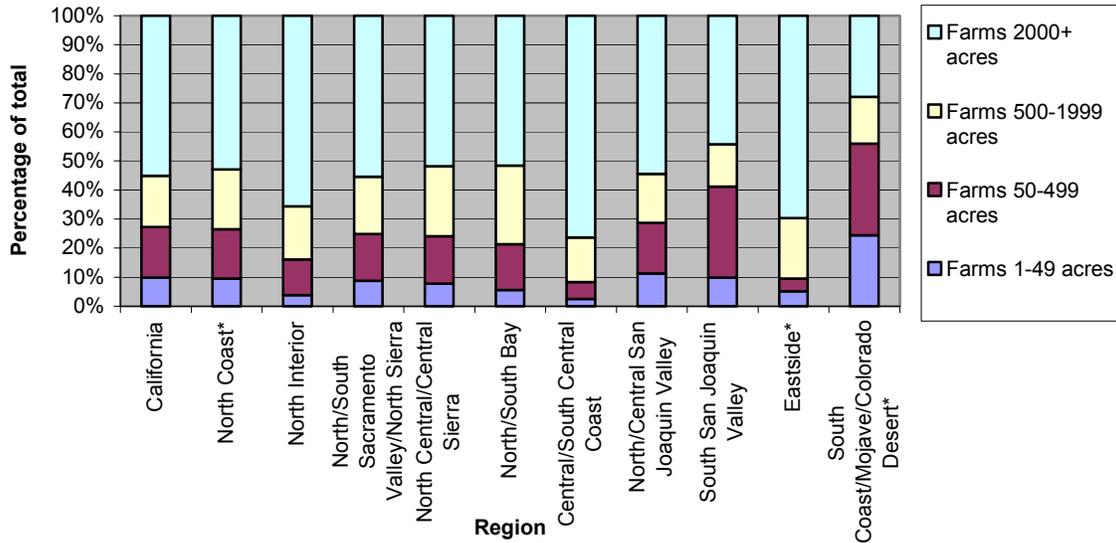


Source: National Agricultural Statistics Service, 2001a

In 1997, nearly all agricultural census regions had the majority of their beef cattle inventories within farms greater than 2,000 acres. The Eastside, North Interior, and Central/South Central Coast had a high proportion of their inventories on farms greater than 2,000 acres. In contrast, the South San Joaquin

Valley and South Coast/Mojave/Colorado Desert had a small proportion of their inventories on farms greater than 2,000 acres (National Agricultural Statistics Service, 2001a). This is shown in Figure 16. For more regional information, see Appendix J.

Figure 16. Beef cattle inventory (excluding feedlots) by farm size as a percentage of total inventory, Statewide and region, 1997



\* 1992 numbers used when 1997 was unavailable

Source: National Agricultural Statistics Service, 2001a

Nearly 60 percent of beef cattle farms have herd sizes of less than 50 head. As farm size increases, herd size does as well. While farms with cattle inventories less than 50 head have decreased significantly, farms greater than 50 head have remained stable or slightly increased between 1982 and 1997 (Table17) (National Agricultural Statistics Service, 2001a).

Table 17. Number of beef cattle farms excluding feedlots with cattle inventories by herd size and farm size, Statewide, 1982-1997

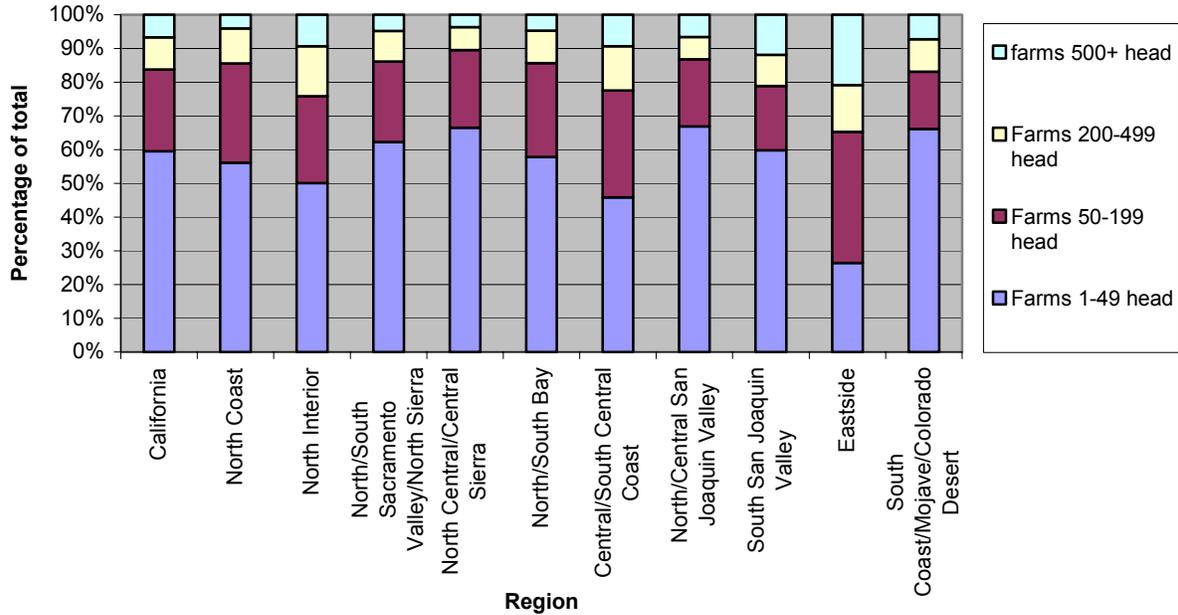
| Cattle and calf herd size and year              | All farms | Farms 1-49 acres | Farms 50-499 acres | Farms 500-1999 acres | Farms 2,000+ acres |
|---|-----------|------------------|--------------------|----------------------|--------------------|
| <b>Cattle and calves (farms)</b>                |           |                  |                    |                      |                    |
| 1982  | 14,243    | 6,964            | 4,088              | 1,811                | 1,380              |
| 1987  | 13,359    | 5,646            | 4,231              | 1,991                | 1,491              |
| 1992  | 11,914    | 4,818            | 3,832              | 1,821                | 1,443              |
| 1997  | 11,139    | 4,210            | 3,706              | 1,799                | 1,424              |
| <b>Cattle and calves (farms w/ 1-49 head)</b>   |           |                  |                    |                      |                    |
| 1982  | 9,587     | 6,474            | 2,688              | 375                  | 50                 |
| 1987  | 8,558     | 5,153            | 2,860              | 476                  | 69                 |
| 1992  | 7,307     | 4,351            | 2,503              | 397                  | 56                 |
| 1997  | 6,626     | 3,790            | 2,405              | 370                  | 61                 |
| <b>Cattle and calves (farms w/50-199 head)</b>  |           |                  |                    |                      |                    |
| 1982  | 2,816     | 413              | 1,250              | 926                  | 227                |
| 1987  | 2,919     | 381              | 1,212              | 1,024                | 302                |
| 1992  | 2,838     | 363              | 1,163              | 988                  | 324                |
| 1997  | 2,702     | 322              | 1,110              | 992                  | 278                |
| <b>Cattle and calves (farms w/200-499 head)</b> |           |                  |                    |                      |                    |
| 1982  | 1,010     | 48               | 117                | 407                  | 438                |
| 1987  | 1,095     | 71               | 118                | 387                  | 519                |
| 1992  | 1,027     | 70               | 117                | 351                  | 489                |
| 1997  | 1,061     | 52               | 148                | 352                  | 509                |
| <b>Cattle and calves (farms w/500+ head)</b>    |           |                  |                    |                      |                    |
| 1982  | 830       | 29               | 33                 | 103                  | 665                |
| 1987  | 787       | 41               | 41                 | 104                  | 601                |
| 1992  | 742       | 34               | 49                 | 85                   | 574                |
| 1997  | 750       | 46               | 43                 | 85                   | 576                |

 = Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

Regionally, with the exception of the Eastside region, the majority of farms have herd sizes less than 50 head. Figure 17 shows the breakdown of farms by herd size (National Agricultural Statistics Service, 2001a). For more regional information, see Appendix G.

Figure 17. Beef cattle excluding feedlots farm inventory by herd size as a percentage of total inventory, Statewide and region, 1997

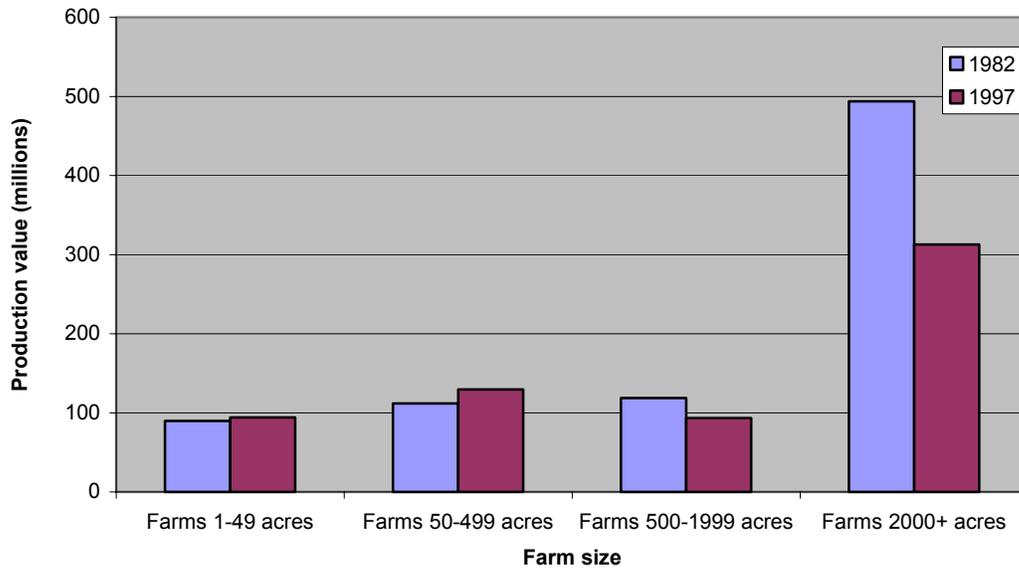


Source: National Agricultural Statistics Service, 2001a

### Findings on sales of cattle and calves value sold from beef cattle farms excluding feedlots

Statewide, the real value of cattle sold from beef cattle farms except feedlots declined 23 percent between 1982 and 1997. Nearly half of the total value of cattle sold originated on ownerships greater than 2,000 acres (Figure 18). Farms with cattle and calves less than 500 acres in size saw cattle sale values increase while farms over 500 acres experienced decreases between 1992 and 1997 (National Agricultural Statistics Service, 2001a).

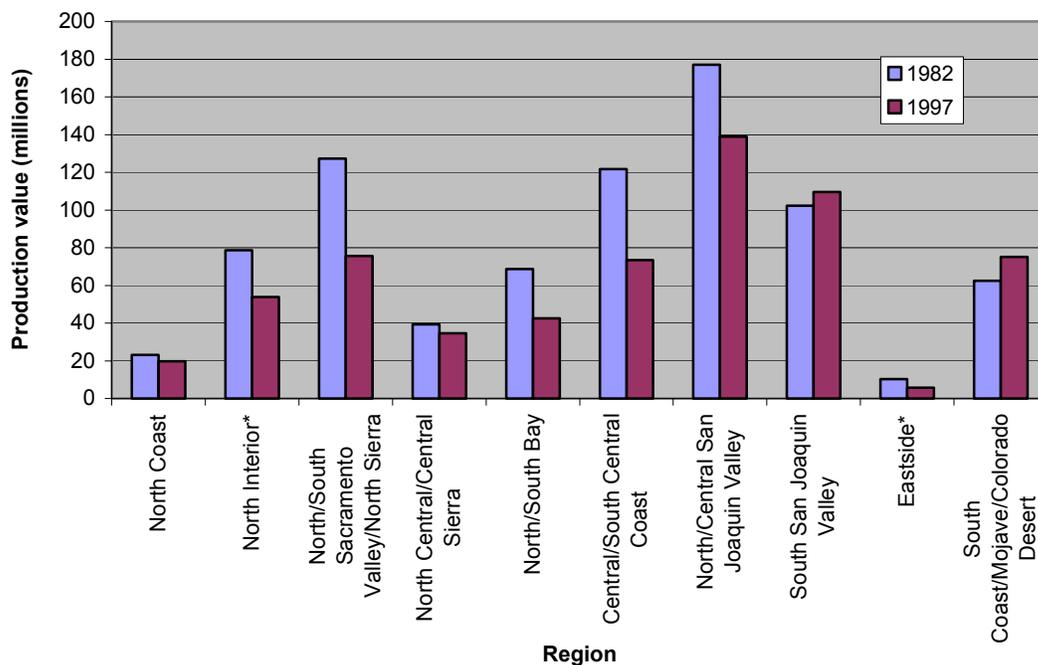
Figure 18. Real value of cattle sold from beef cattle farms excluding feedlots by farm size, Statewide (1997 dollars), 1982 and 1997



Source: National Agricultural Statistics Service, 2001a

Regionally, only the South San Joaquin Valley and South Coast/Mojave/Colorado Desert had increases in the value of cattle sold from beef cattle farms excluding feedlots between 1982 and 1997. The largest cattle sale values were focused in the San Joaquin Valley regions in 1997 (Figure 19). It is important to note, the South San Joaquin Valley and South Coast/Mojave/ Colorado Desert regions had the majority of their sale value originating from farms less than 500 acres in size. All other regions saw their sale value dominated by farms greater than 2000 acres (National Agricultural Statistics Service, 2001a) (Figure 20). For more regional information, see Appendix M.

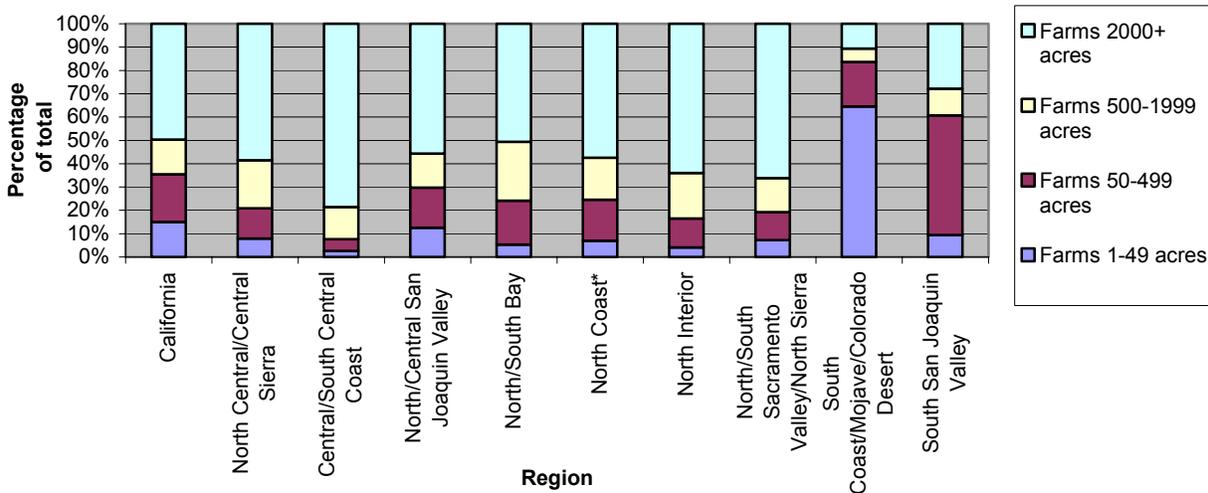
Figure 19. Real value of cattle sold from beef cattle farms excluding feedlots (1997 dollars), regional, 1982 and 1997



\*1992 numbers used when 1997 were unavailable

Source: National Agricultural Statistics Service, 2001a

Figure 20. Value of cattle sold from beef cattle farms excluding feedlots by farm size as a percentage of total value, Statewide and region, 1997



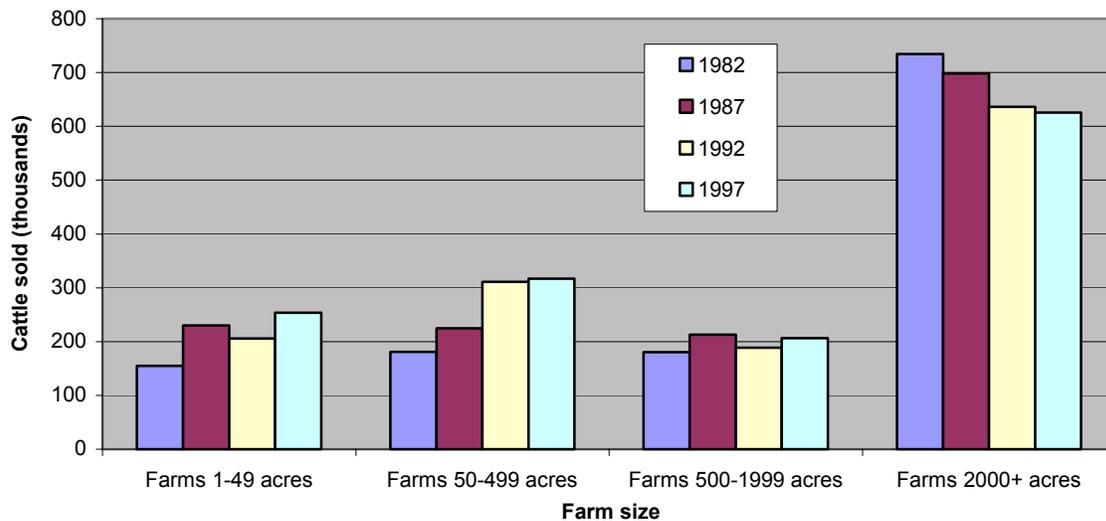
\* 1992 numbers used when 1997 was unavailable, Eastside region is omitted due to withheld data

Source: National Agricultural Statistics Service, 2001

## Cattle and calves numbers sold from beef cattle farms excluding feedlots

The number of cattle and calves sold from beef cattle farms excluding feedlots increased 12 percent between 1982 and 1997 in California. That increase was due mainly to the high number of cattle sold; calf sales remained relatively unchanged. All farm size classifications sold more cattle between 1982 and 1997 except for farms greater than 2,000 acres, which had a small decline. Farms less than 500 acres had the greatest increase in the number of cattle sold between 1982 and 1997 (National Agricultural Statistics Service, 2001a) (Figure 21).

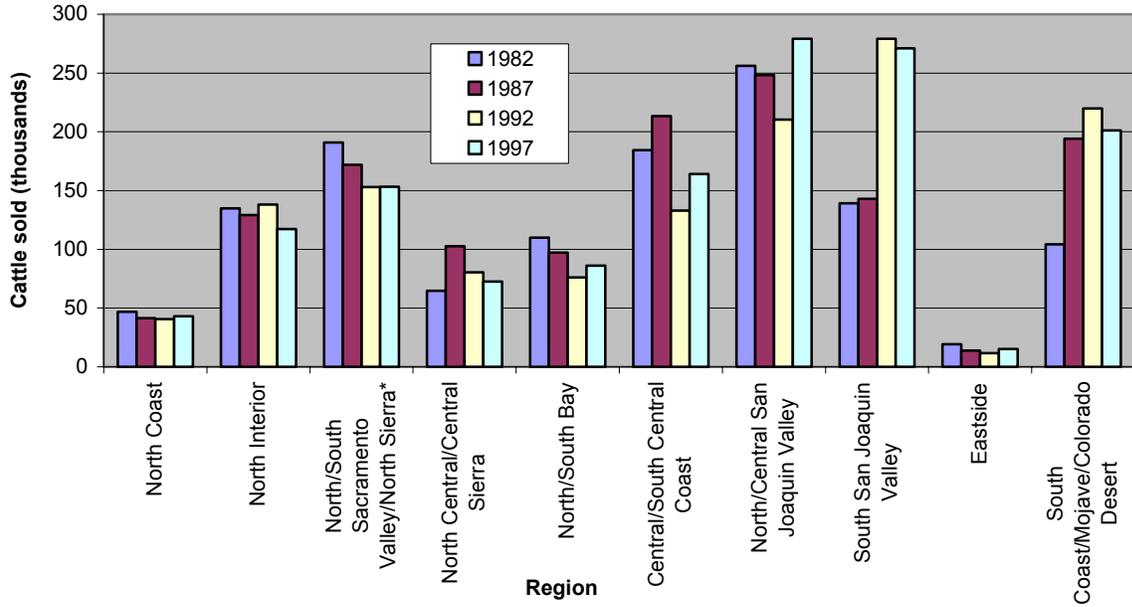
Figure 21. Cattle sold from beef cattle farms excluding feedlots, Statewide, 1982 and 1997



Source: National Agricultural Statistics Service, 2001

In 1997, the majority of cattle sold from beef cattle farms excluding feedlots came from the San Joaquin Valley and the South Coast/Mojave/Colorado Desert regions. The San Joaquin Valley and South Coast/Mojave/Colorado Desert were the only regions to have significant increases in the number of cattle sold between 1982 and 1997 (Figure 22). With the exception of the South San Joaquin Valley and South Coast/Mojave/Colorado Desert regions the majority of cattle sold originated on farms greater than 2,000 acres (Figure 23) (National Agricultural Statistics Service, 2001a). For more regional information, see Appendix N.

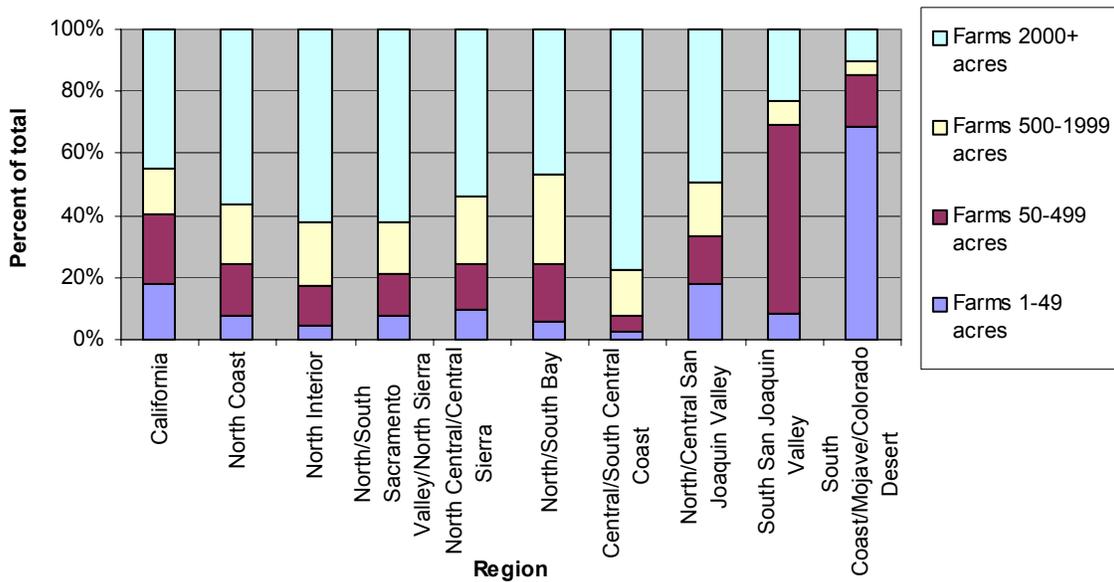
Figure 22. Number of cattle sold from beef cattle farms excluding feedlots, Statewide, 1982 and 1997



\*1987 was estimated using the 1982 and 1992 average

Source: National Agricultural Statistics Service, 2001a

Figure 23. Cattle sold from beef cattle farms excluding feedlots by farm size as a percentage of total cattle sold, Statewide and region, 1997



Eastside region was omitted due to withheld data

Source: National Agricultural Statistics Service, 2001a

## Findings on range livestock production factors

California agriculture includes a number of industry segments with a wide variety of products, marketing techniques, and organizational sophistication. To some extent, the beef industry reflects this diversity. Many operators use their ranches as a residence making it easier to withstand poor economic conditions. Entrance to the livestock industry is relatively easy compared to the capita requirements of other industries. New operators can rent their acreage and equipment.

### Description of production factor information

The “beef cattle farms excluding feedlots” and “sheep and goat farms and feedlots” category types are used to describe the range livestock industry within this section. Since sheep farm information is lumped into a residual category that includes feedlots, it is unable to calculate the amount and acreage of sheep farms that actually utilize forest and range. An estimated range is used when discussing the range livestock industry. In most cases, the residual category that includes sheep, goats, and feedlots, make up a small portion of the range livestock industry. Therefore, graphically displayed data uses only beef cattle farms excluding feedlots. This section focuses on the following production factor characteristics:

- Livestock production costs and
- Grazing permit use (acreage grazed under permit and number of farms with grazing permits).

### Range livestock production costs

Livestock production costs include livestock purchase, feed costs, lease or other range forage costs, and labor. Farm production expenses on beef cattle farms excluding feedlots for the years 1992 and 1997 are presented in Table 18. The most significant costs relate to the purchase cost of animals and feed. These significant costs are reflected regionally as well (National Agricultural Statistics Service, 2001a).

The largest production expenses on beef cattle farms excluding feedlots came from livestock purchases (28 percent) and feed purchases (18 percent) in 1997. California’s livestock purchases on beef cattle farms have decreased 25 percent between 1992 and 1997. Purchases for livestock feed had a minimal decrease of five percent between 1992 and 1997, in California. The purchase decreases occurred on farms greater than 500 acres, purchases on farms less than 500 acres increased between 1992 and 1997. Commercially mixed formula feed purchases have increased 48 percent between 1992 and 1997. Commercially mixed formula feed purchases have had the most significant increase among all production expenses within California between 1992 and 1997. On beef cattle farms less than 50 acres, commercially mixed formula feed purchases have increased 87 percent. Farms greater than 2,000 acres have increased 65 percent while farms 50 to 1,999 acres have had a minimal increase between 1992 and 1997 (National Agricultural Statistics Service, 2001a) (Table 18).

*The most significant costs relate to the purchase cost of animals and feed. These significant costs are reflected regionally as well.*

Table 18. Farm production expenses (\$1,000s), Statewide, 1992 and 1997

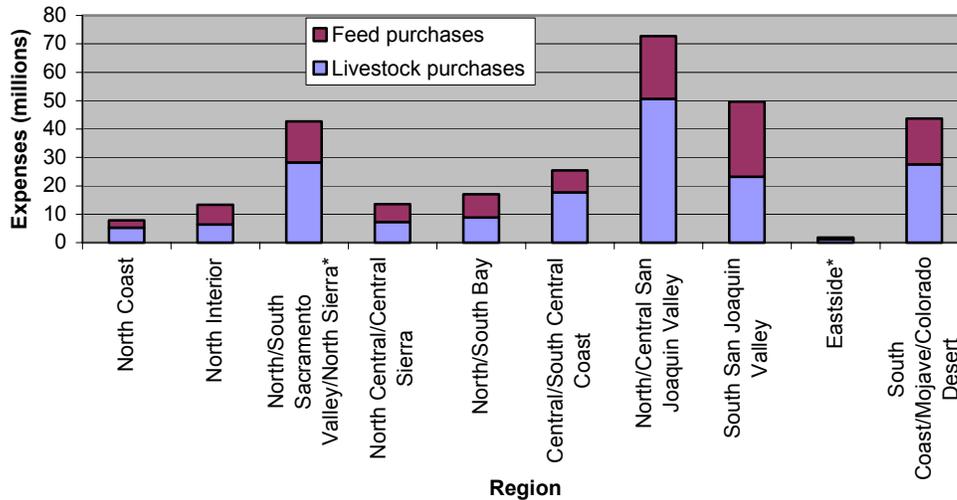
| Production expense             | All farms  |            | All farms w/cattle, sheep and goats |           | Beef cattle farms excluding feedlots |         |                    |         | Sheep and goat farms and feedlots |         |
|--------------------------------|------------|------------|-------------------------------------|-----------|--------------------------------------|---------|--------------------|---------|-----------------------------------|---------|
|                                |            |            |                                     |           | All farms                            |         | Farms 2,000+ acres |         |                                   |         |
|                                | 1992       | 1997       | 1992                                | 1997      | 1992                                 | 1997    | 1992               | 1997    | 1992                              | 1997    |
| Livestock and poultry purchase | 935,152    | 759,223    | 727,036                             | 582,453   | 226,867                              | 170,403 | 113,956            | 81,231  | 341,457                           | 247,601 |
| Feed for livestock and poultry | 2,108,719  | 2,588,982  | 1,488,260                           | 1,800,022 | 111,907                              | 106,520 | 44,504             | 36,867  | 231,039                           | 235,394 |
| All other production expenses  | 1,815,826  | 2,200,014  | 395,494                             | 443,934   | 69,118                               | 69,105  | 32,729             | 34,534  | 39,222                            | 35,053  |
| Hired farm labor               | 2,922,390  | 3,392,577  | 435,765                             | 478,504   | 45,441                               | 42,594  | 27,070             | 25,040  | 33,411                            | 31,045  |
| Interest paid                  | 738,910    | 958,431    | 197,825                             | 218,750   | 35,944                               | 35,609  | 20,036             | 19,085  | 18,593                            | 13,007  |
| Repair and maintenance         | 630,574    | 777,097    | 152,120                             | 174,692   | 30,375                               | 32,397  | 12,508             | 13,134  | 13,685                            | 15,728  |
| Cash rent                      | 492,662    | 554,077    | 104,343                             | 106,681   | 30,629                               | 31,037  | 21,723             | 22,296  | 5,624                             | 4,433   |
| Property taxes paid            | 291,385    | 360,348    | 69,286                              | 76,770    | 27,250                               | 28,834  | 9,542              | 10,632  | 7,847                             | 7,525   |
| Petroleum products             | 414,984    | 488,226    | 81,624                              | 89,004    | 22,118                               | 22,321  | 9,856              | 9,748   | 8,346                             | 7,942   |
| Electricity                    | 500,264    | 526,592    | 116,505                             | 119,240   | 16,652                               | 15,140  | 7,260              | 5,927   | 5,678                             | 5,989   |
| Custom work                    | 448,923    | 595,872    | 79,526                              | 91,762    | 9,084                                | 9,224   | 4,653              | 4,443   | 4,162                             | 2,646   |
| Seeds, plants, and trees       | 568,772    | 746,325    | 53,789                              | 66,195    | 6,247                                | 6,533   | 2,868              | 3,007   | 2,096                             | 1,437   |
| Contract labor                 | 967,377    | 1,386,159  | 59,140                              | 71,318    | 4,945                                | 6,221   | 3,008              | 3,873   | 2,939                             | 3,779   |
| Commercial fertilizer          | 694,549    | 957,006    | 49,339                              | 57,888    | 4,208                                | 2,835   | 1,880              | 1,711   | 2,641                             | 821     |
| Agricultural chemicals         | 274,495    | 526,323    | 21,797                              | 33,361    | 2,274                                | 2,183   | 1,017              | 1,171   | 956                               | 744     |
| Total production expenses      | 13,804,982 | 16,817,252 | 4,031,849                           | 4,410,574 | 643,059                              | 580,956 | 312,610            | 272,699 | 717,696                           | 613,144 |

= Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

Regionally, livestock purchases and feed purchases for beef cattle farms excluding feedlots were the top production expense in every region that reported amounts for all production expenses in 1997. The largest expenditures for feed and livestock purchases occurred within the San Joaquin and South Coast/Mojave/Colorado Desert regions (Figure 24) (National Agricultural Statistics Service, 2001a). For more regional information, see Appendix O.

Figure 24. Feed and livestock purchases on beef cattle farms excluding feedlots, regional, 1997



Source: National Agricultural Statistics Service, 2001a

## Land and forage input

Forest and rangelands provide forage. Forage varies in its nutritional value by the species, time of year, and other factors. On rangeland, cattle consume a varied diet that may include grasses, legumes, forbs, and brush (browse). Frequently, range forage may not provide insufficient feed or variable feed quality for cattle. This can lead to periods of under nutrition and slower growth. This is more a problem in younger cattle than older cattle. At such times, owners must supplement feed or move the cattle to another location where feed is available. Forage comes from both publicly and privately owned lands. Landowners may rely on forage from both kinds of lands.

## Grazing permit use—number of farms by farm type with grazing permits

Livestock grazing occurs on land subject to private and public permits. For example, in 1998, it was estimated that over two million head of livestock grazed on national forest land (1,262,000 cattle, horses, and burros; 966,221 sheep and goats) (U.S. Forest Service, 1998).

In 1997, all farms with cattle, sheep and goats made up nearly 85 percent of all farms in California issued grazing permits. The range livestock proportion of the all farms category is estimated to be between 67 and 75 percent of total grazing permits issued in California. The number of farms with beef cattle represents 89 percent of the number of farms in the range livestock industry (National Agricultural Statistics Service, 2001a).

In California, the number of farms using grazing permits between 1987 and 1997 increased among all permit types. More farms use U.S. Forest Service permits than any other permit type. Farms within the range livestock industry hold the majority of grazing permits. The number of range livestock farms using grazing permits has also increased among all permit types. In 1997, beef cattle farms greater than 2,000 acres held the majority of U.S. Forest Service, Taylor, and Indian land grazing permits (National Agricultural Statistics Service, 2001a) (Table 19).

Table 19. Farms with grazing permits, Statewide, 1987-1997

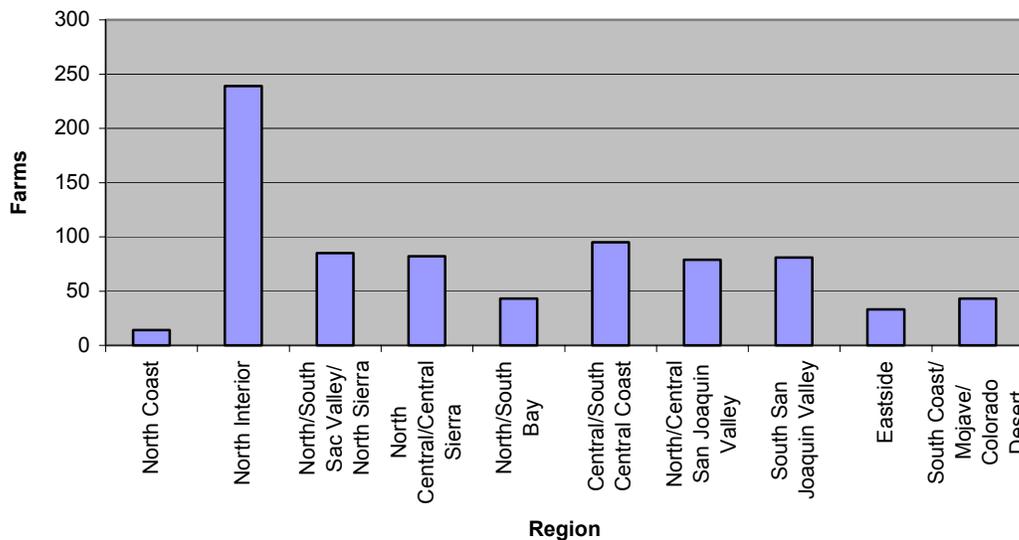
| Region, permit Type, and year | All farms | All farms w/cattle sheep and goats | Beef cattle farms excluding feedlots | Beef cattle farms excluding feedlots 2,000+ acres | Sheep and goat farms or feedlots |
|-------------------------------|-----------|------------------------------------|--------------------------------------|---|----------------------------------|
| <b>California</b>             |           |                                    |                                      |   |                                  |
| U.S. Forest                   |           |                                    |                                      |   |                                  |
| Farms 1987                    | 432       | 413                                | 346                                  | 158   | 18                               |
| Farms 1997                    | 620       | 513                                | 402                                  | 211   | 57                               |
| Taylor Grazing                |           |                                    |                                      |   |                                  |
| Farms 1987                    | 354       | 325                                | 244                                  | 90  | 47                               |
| Farms 1997                    | 498       | 435                                | 336                                  | 179   | 40                               |
| Indian Land                   |           |                                    |                                      |   |                                  |
| Farms 1987                    | 13        | 11                                 | 8                                    | 2   | 0                                |
| Farms 1997                    | 78        | 47                                 | 28                                   | 9   | 9                                |
| Other                         |           |                                    |                                      |   |                                  |
| Farms 1987                    | 205       | 197                                | 145                                  | 35  | 34                               |
| Farms 1997                    | 328       | 270                                | 214                                  | 68  | 27                               |

= Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

Regionally, farms within the range livestock industry mirror California’s grazing permit increases among all permit types between 1987 and 1997. The North Interior region held nearly a third of the range livestock farms using grazing permits in 1997. All other range livestock farms that used grazing permits were distributed evenly across the remaining regions (Figure 25) (National Agricultural Statistics Service, 2001a). For more regional information, see Appendix P.

Figure 25. Number of farms using grazing permits by region, 1997



Source: National Agricultural Statistics Service, 2001a

### Grazing permit use—acreage

Grazing permit acreage totals for California are limited to 1997 data. Grazing permit acreage totals by Agricultural Census region is limited due to disclosure issues. Total acreage only for all farms can be adequately compared regionally.

In 1997, all farms with cattle, sheep, and goats used nearly 98 percent of the total acreage being used under grazing permits in California. The range livestock proportion of the all farms category is estimated to use between 81 and 94 percent of the total acres grazed under permit. Farms with beef cattle used nearly 88 percent of the acreage grazed under permit in the range livestock industry.

Of the 5.8 million acres being grazed under permit in 1997, the North Interior region accounted for nearly 22 percent of total acres. In 1997, of the regions with data, the North Interior accounted for more U.S. Forest Service, Taylor Grazing, and other land permits than all other regions. The South San Joaquin Valley and South Coast/Mojave/Colorado Desert regions also heavily use grazing permits. In 1997, the North and South Bay, North Coast, and Eastside regions held small amounts of acres being grazed by permit (National Agricultural Statistics Service, 2001a). For more regional information, see Appendix Q.

## Conclusions

Farms greater than 2,000 acres dominate the range livestock industry. These farms are small in number but they held over 80 percent of total farm acreage associated with the range livestock industry in 1997. The data shows that farms greater than 2,000 acres have differing characteristics than smaller farms. The data also shows that these farms have been more stable from year to year as opposed to smaller farms.

Organization, ownership and operator structures differ between smaller and larger farms. The majority of farms and acreage are in sole proprietorship; however, as farm size increases the proportion of sole proprietorships diminish. Farms and acreage in full ownership make up the majority of farms less than 2,000 acres within the range livestock industry; however, farms and acreage in part ownership make up the majority of farms greater than 2,000 acres. The majority of operators within the range livestock industry list another occupation other than farming as their principal occupation. However, as farm size increases, more operators claim farming as their principal occupation. In addition, the average age of farm operators increases as farm size increases.

Within the sheep industry, it is not possible to look at farm size comparisons since the data does not go that far in depth. The data shows that the majority of the sheep inventory is located primarily on sheep and goat farms and feedlots. An accurate count of the inventory associated with the range livestock industry is not available and can only be estimated. Between 68 and 79 percent of the sheep and lamb inventory is held on farms with herd sizes greater than 1,000 head. All farms with sheep and lambs have declined; however, farms greater than 300 head have declined more. The majority of the inventory is held in the South Coast/Mojave/Colorado Desert, North/South Sacramento Valley/North Sierra, and San Joaquin Valley regions.

Farm size continues to have differing characteristics within the cattle industry as well. Just over half of the cattle inventory associated with the range livestock industry is located on farms greater than 2,000 acres. The inventory has decreased slightly on farms greater than 2,000 acres and increased or remained stable on farms less than 2,000 acres. The majority of the cattle inventory is located within the San Joaquin Valley, Central/South Central Coast, North Interior and North/South Sacramento Valley/North Sierra. Farms less than 50 acres with cattle inventories have declined substantially while farms greater than 50 acres have remained stable. The value and amount of cattle sold has declined on farms greater than 2,000 acres and remained stable or increased on farms less than 2,000 acres. The majority of cattle sales came from the San Joaquin Valley, South Coast/Mojave/Colorado Desert, Central/South Central Coast and North/South Sacramento Valley/North Sierra regions in 1997.

Livestock production factors differ by farm size as well. On farms less than 2,000 acres associated with the range livestock industry, production expenses are dominated by livestock purchases and feed purchases for livestock. On farms greater than 2,000 acres, livestock purchases and feed purchases constitute a much smaller proportion of total production expenses. Nearly 48 percent of farms with grazing permits were over 2,000 acres. Large farms use the bulk of U.S Forest Service and Taylor Grazing permit types.

Farms greater than 2,000 acres dominate forest and rangeland utilized by the range livestock industry. The performance of these large farms appears to be stable given all differing metrics measuring

the industry. Smaller farms have not fared as well, as their numbers and acreage have decreased substantially since 1982.

## Glossary

**beef:** The flesh of an ox, or cow, or of any adult bovine animal, when slaughtered for food.

**bovine:** the scientific name for cattle.

**bulls:** a sexually mature adult bovine.

**calf:** a sexually mature young bovine.

**cattle:** domesticated bovine animals as a group regardless of sex or age, including cows, steers, bulls, and oxen.

**cow:** a mature female bovine.

**feeder cattle:** Bovine animals not more than 18 months of age that are spayed heifers, steers, or non-spayed females that have not calved.

**feedlots:** A plot of ground on which livestock are fattened for market.

**heifer:** a female bovine less than three years of age, which has not borne a calf.

**herd size:** Size groupings based on number of beef cows on hand.

**hothouse lambs:** Lambs six weeks old.

**lamb:** a sheep less than one year of age.

**livestock:** Domestic animals, such as cattle or horses, raised for home use or for profit, especially on a farm.

**milk cows:** Cattle that are reared for their milk.

**mutton:** The flesh of fully-grown sheep.

**red meat:** Beef, sheep, lamb, and goat meat.

**sheep:** Any of various usually horned ruminant mammals of the genus *Ovis* in the family Bovidae, especially the domesticated species *O. aries*, raised in many breeds for wool, edible flesh, or skin.

**shorn:** To remove (fleece or hair) by cutting or clipping.

**steers:** A young ox, especially one castrated before sexual maturity and raised for beef.

**Taylor Grazing:** Grazing permits issued under the Taylor Grazing Act of 1934.

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# Characteristics of the Range Livestock Industry

## Appendix A: Number of farms utilizing forage resources, statewide and regional, 1982 and 1997

| Land in farms according to use              | All farms |        | All farms w/cattle, sheep and goats |        | Beef cattle farms excluding feedlots |        |                   |       | Sheep and goat farms and feedlots |       |
|---|-----------|--------|-------------------------------------|--------|--------------------------------------|--------|-------------------|-------|-----------------------------------|-------|
|   |           |        |                                     |        | All farms                            |        | Farms 2000+ acres |       |                                   |       |
|   | 1982      | 1997   | 1982                                | 1997   | 1982                                 | 1997   | 1982              | 1997  | 1982                              | 1997  |
| <b>California</b>                           |           |        |                                     |        |                                      |        |                   |       |                                   |       |
| All farms                                   | 82,454    | 74,126 | 30,586                              | 19,746 | 14,850                               | 11,510 | 1,411             | 1,437 | 8,279                             | 3,473 |
| Cropland only for grazing                   | 14,585    | 10,400 | 12,051                              | 7,709  | 6,285                                | 4,680  | 305               | 366   | 3,044                             | 1,275 |
| Woodland pastured                           | 2,597     | 1,756  | 2,157                               | 1,296  | 1,272                                | 895    | 216               | 180   | 531                               | 218   |
| Woodland not pastured                       | 3,200     | 2,813  | 1,822                               | 1,096  | 889                                  | 613    | 110               | 100   | 515                               | 228   |
| Pasture and Range*                          | 13,461    | 12,055 | 10,519                              | 8,567  | 6,251                                | 5,980  | 1,326             | 1,360 | 2,329                             | 1,267 |
| <b>North Coast</b>                          |           |        |                                     |        |                                      |        |                   |       |                                   |       |
| All farms                                   | 2,078     | 1,950  | 1,514                               | 1,098  | 816                                  | 638    | 114               | 115   | 378                               | 203   |
| Cropland only for grazing                   | 830       | 618    | 759                                 | 526    | 381                                  | 278    | 27                | 24    | 173                               | 97    |
| Woodland pastured                           | 474       | 334    | 425                                 | 276    | 251                                  | 196    | 59                | 51    | 119                               | 45    |
| Woodland not pastured                       | 508       | 477    | 397                                 | 275    | 210                                  | 159    | 38                | 34    | 114                               | 64    |
| Pasture and Range*                          | 654       | 627    | 583                                 | 492    | 340                                  | 318    | 101               | 102   | 157                               | 93    |
| <b>North Interior</b>                       |           |        |                                     |        |                                      |        |                   |       |                                   |       |
| All farms                                   | 2,873     | 2,504  | 2,077                               | 1,565  | 1,276                                | 1,134  | 206               | 186   | 398                               | 224   |
| Cropland only for grazing                   | 1,181     | 1,093  | 1,056                               | 867    | 655                                  | 597    | 76                | 98    | 198                               | 136   |
| Woodland pastured                           | 353       | 266    | 312                                 | 221    | 216                                  | 165    | 56                | 58    | 45                                | 23    |
| Woodland not pastured                       | 352       | 285    | 264                                 | 198    | 155                                  | 133    | 25                | 31    | 46                                | 32    |
| Pasture and Range*                          | 1,059     | 931    | 905                                 | 749    | 626                                  | 592    | 195               | 170   | 120                               | 65    |
| <b>North/South Sac Valley/North Sierra</b>  |           |        |                                     |        |                                      |        |                   |       |                                   |       |
| All farms                                   | 10,804    | 10,493 | 4,679                               | 3,075  | 2,461                                | 1,898  | 175               | 168   | 1,125                             | 537   |
| Cropland only for grazing                   | 2,635     | 1,952  | 2,206                               | 1,463  | 1,201                                | 903    | 45                | 56    | 496                               | 232   |
| Woodland pastured                           | 252       | 187    | 203                                 | 132    | 115                                  | 92     | 20                | 16    | 47                                | 26    |
| Woodland not pastured                       | 323       | 289    | 173                                 | 111    | 71                                   | 66     | 10                | 4     | 51                                | 19    |
| Pasture and Range*                          | 1,855     | 1,772  | 1,495                               | 1,280  | 914                                  | 879    | 163               | 161   | 327                               | 224   |
| <b>North Central and Central Sierra</b>     |           |        |                                     |        |                                      |        |                   |       |                                   |       |
| All farms                                   | 3,687     | 3,505  | 2,807                               | 2,010  | 1,752                                | 1,412  | 100               | 114   | 835                               | 441   |
| Cropland only for grazing                   | 1,345     | 929    | 1,200                               | 741    | 724                                  | 511    | 17                | 24    | 372                               | 156   |
| Woodland pastured                           | 475       | 317    | 418                                 | 245    | 248                                  | 165    | 18                | 11    | 133                               | 54    |
| Woodland not pastured                       | 415       | 393    | 263                                 | 142    | 128                                  | 75     | 3                 | 6     | 96                                | 40    |
| Pasture and Range*                          | 1,348     | 1,427  | 1,191                               | 1,106  | 847                                  | 845    | 99                | 111   | 276                               | 214   |
| <b>North and South Bay</b>                  |           |        |                                     |        |                                      |        |                   |       |                                   |       |
| All farms                                   | 9,626     | 8,107  | 4,050                               | 2,255  | 1,952                                | 1,265  | 146               | 141   | 1,331                             | 536   |
| Cropland only for grazing                   | 1,792     | 1,230  | 1,455                               | 858    | 732                                  | 445    | 18                | 24    | 460                               | 200   |
| Woodland pastured                           | 460       | 274    | 368                                 | 179    | 180                                  | 97     | 15                | 15    | 104                               | 39    |
| Woodland not pastured                       | 787       | 731    | 364                                 | 188    | 162                                  | 95     | 13                | 14    | 122                               | 37    |
| Pasture and Range*                          | 2,136     | 1,697  | 1,623                               | 1,126  | 894                                  | 730    | 137               | 135   | 455                               | 217   |
| <b>Central/South Central Coast</b>          |           |        |                                     |        |                                      |        |                   |       |                                   |       |
| All farms                                   | 7,333     | 7,352  | 2,611                               | 1,999  | 1,407                                | 1,369  | 271               | 338   | 575                               | 270   |
| Cropland only for grazing                   | 1,170     | 992    | 918                                 | 678    | 485                                  | 432    | 57                | 71    | 214                               | 105   |
| Woodland pastured                           | 229       | 172    | 185                                 | 117    | 113                                  | 88     | 28                | 18    | 32                                | 10    |
| Woodland not pastured                       | 251       | 240    | 131                                 | 71     | 72                                   | 33     | 7                 | 7     | 27                                | 10    |
| Pasture and Range*                          | 1,677     | 1,661  | 1,300                               | 1,191  | 799                                  | 928    | 254               | 321   | 215                               | 113   |
| <b>North and Central San Joaquin Valley</b> |           |        |                                     |        |                                      |        |                   |       |                                   |       |
| All farms                                   | 21,133    | 18,967 | 6,388                               | 4,283  | 3,045                                | 2,363  | 189               | 167   | 1,200                             | 421   |
| Cropland only for grazing                   | 3,158     | 2,239  | 2,649                               | 1,693  | 1,410                                | 1,079  | 44                | 52    | 513                               | 153   |
| Woodland pastured                           | 139       | 93     | 112                                 | 57     | 68                                   | 39     | 7                 | 6     | 17                                | 11    |
| Woodland not pastured                       | 183       | 144    | 75                                  | 50     | 28                                   | 20     | 1                 | 1     | 14                                | 10    |
| Pasture and Range*                          | 2,209     | 1,911  | 1,710                               | 1,380  | 1,022                                | 966    | 180               | 158   | 308                               | 131   |
| <b>South San Joaquin Valley</b>             |           |        |                                     |        |                                      |        |                   |       |                                   |       |
| All farms                                   | 8,887     | 8,522  | 2,451                               | 1,812  | 1,030                                | 868    | 119               | 135   | 505                               | 231   |
| Cropland only for grazing                   | 943       | 687    | 738                                 | 484    | 339                                  | 266    | 8                 | 7     | 158                               | 67    |
| Woodland pastured                           | 104       | 51     | 64                                  | 32     | 48                                   | 25     | 11                | 2     | 10                                | 3     |
| Woodland not pastured                       | 92        | 71     | 40                                  | 18     | 24                                   | 11     | 5                 | 1     | 6                                 | 3     |
| Pasture and Range*                          | 1,034     | 951    | 756                                 | 690    | 420                                  | 447    | 110               | 132   | 139                               | 64    |
| <b>Eastside</b>                             |           |        |                                     |        |                                      |        |                   |       |                                   |       |
| All farms                                   | 172       | 157    | 123                                 | 89     | 75                                   | 72     | 22                | 18    | 29                                | 9     |
| Cropland only for grazing                   | 50        | 51     | 42                                  | 44     | 23                                   | 37     | 7                 | 7     | 12                                | 3     |
| Woodland pastured                           | 2         | 7      | 1                                   | 5      | 0                                    | 2      | 0                 | 1     | 0                                 | 1     |
| Woodland not pastured                       | 2         | 1      | 1                                   | 0      | 0                                    | 0      | 0                 | 0     | 0                                 | 0     |
| Pasture and Range*                          | 84        | 76     | 73                                  | 57     | 53                                   | 48     | 21                | 17    | 14                                | 6     |
| <b>South Coast/Mojave/Colorado Desert</b>   |           |        |                                     |        |                                      |        |                   |       |                                   |       |
| All farms                                   | 15,861    | 12,560 | 3,886                               | 1,560  | 1,036                                | 491    | 69                | 55    | 1,903                             | 601   |
| Cropland only for grazing                   | 1,481     | 609    | 1,028                               | 355    | 335                                  | 132    | 6                 | 3     | 448                               | 126   |
| Woodland pastured                           | 109       | 55     | 69                                  | 32     | 33                                   | 26     | 2                 | 2     | 24                                | 6     |
| Woodland not pastured                       | 287       | 182    | 114                                 | 43     | 39                                   | 21     | 8                 | 2     | 39                                | 13    |
| Pasture and Range*                          | 1,405     | 1,002  | 883                                 | 496    | 336                                  | 227    | 66                | 53    | 318                               | 140   |

\* Not cropland or woodland  
 = Forest and rangeland farms

Numbers in columns are not additive since farms may use one, many or other forage resources

Source: National Agricultural Statistics Service, 2001a

## Appendix B: Number of farms by organization type, statewide and regional, 1982 and 1997

| Land in farms according to use                | All farms |        | All farms w/cattle, sheep and goats |        | Beef cattle farms excluding feedlots |       |                   |      | Sheep and goat farms and feedlots |       |
|---|-----------|--------|-------------------------------------|--------|--------------------------------------|-------|-------------------|------|-----------------------------------|-------|
|   | 1982      | 1997   | 1982                                | 1997   | All farms                            |       | Farms 2000+ acres |      | 1982                              | 1997  |
|   |           |        |                                     |        | 1982                                 | 1997  | 1982              | 1997 |                                   |       |
| <b>California</b>                             |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Sole proprietorships (individual/family)      | 65,351    | 56,755 | 26,103                              | 16,246 | 12,974                               | 9,806 | 887               | 931  | 7,501                             | 3,129 |
| Partnership                                   | 11,332    | 10,813 | 3,272                               | 2,430  | 1,416                                | 1,203 | 338               | 338  | 535                               | 204   |
| Corporation: family held                      | 4,035     | 4,473  | 806                                 | 662    | 281                                  | 281   | 129               | 121  | 129                               | 67    |
| Corporation: non-family                       | 810       | 779    | 111                                 | 75     | 43                                   | 35    | 18                | 10   | 31                                | 14    |
| Other: co-op, estate/trust, institution, etc. | 772       | 1,306  | 294                                 | 333    | 136                                  | 185   | 39                | 37   | 83                                | 59    |
| <b>North Coast</b>                            |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Sole proprietorships (individual/family)      | 1,773     | 1,601  | 1,304                               | 922    | 701                                  | 535   | 76                | 76   | 340                               | 187   |
| Partnership                                   | 223       | 232    | 158                                 | 118    | 90                                   | 73    | 29                | 27   | 31                                | 12    |
| Corporation: family held                      | 44        | 71     | 28                                  | 32     | 11                                   | 14    | 3                 | 6    | 1                                 | 0     |
| Corporation: non-family                       | 19        | 15     | 7                                   | 4      | 5                                    | 2     | 1                 | 2    | 0                                 | 0     |
| Other: co-op, estate/trust, institution, etc. | 19        | 31     | 17                                  | 22     | 9                                    | 14    | 5                 | 4    | 6                                 | 5     |
| <b>North Interior</b>                         |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Sole proprietorships (individual/family)      | 2,400     | 2,095  | 1,737                               | 1,295  | 1,040                                | 929   | 124               | 108  | 355                               | 204   |
| Partnership                                   | 342       | 241    | 252                                 | 166    | 172                                  | 131   | 47                | 45   | 34                                | 9     |
| Corporation: family held                      | 85        | 109    | 59                                  | 72     | 43                                   | 49    | 28                | 30   | 4                                 | 7     |
| Corporation: non-family                       | 11        | 8      | 4                                   | 1      | 3                                    | 0     | 2                 | 0    | 1                                 | 0     |
| Other: co-op, estate/trust, institution, etc. | 35        | 51     | 25                                  | 31     | 18                                   | 25    | 5                 | 3    | 4                                 | 4     |
| <b>North/South Sac Valley/North Sierra</b>    |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Sole proprietorships (individual/family)      | 8,562     | 7,981  | 4,126                               | 2,676  | 2,221                                | 1,709 | 115               | 120  | 1,041                             | 493   |
| Partnership                                   | 1,347     | 1,567  | 419                                 | 278    | 195                                  | 134   | 42                | 31   | 63                                | 29    |
| Corporation: family held                      | 589       | 666    | 101                                 | 75     | 29                                   | 32    | 15                | 15   | 13                                | 4     |
| Corporation: non-family                       | 80        | 117    | 8                                   | 7      | 3                                    | 3     | 1                 | 0    | 2                                 | 1     |
| Other: co-op, estate/trust, institution, etc. | 72        | 162    | 25                                  | 39     | 13                                   | 20    | 2                 | 2    | 6                                 | 10    |
| <b>North Central and Central Sierra</b>       |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Sole proprietorships (individual/family)      | 3,326     | 3,098  | 2,558                               | 1,793  | 1,582                                | 1,253 | 72                | 87   | 787                               | 405   |
| Partnership                                   | 288       | 295    | 199                                 | 170    | 145                                  | 130   | 23                | 23   | 34                                | 25    |
| Corporation: family held                      | 53        | 59     | 35                                  | 27     | 17                                   | 14    | 4                 | 4    | 11                                | 7     |
| Corporation: non-family                       | 12        | 12     | 7                                   | 5      | 3                                    | 3     | 0                 | 0    | 1                                 | 2     |
| Other: co-op, estate/trust, institution, etc. | 8         | 41     | 8                                   | 15     | 5                                    | 12    | 1                 | 0    | 2                                 | 2     |
| <b>North and South Bay</b>                    |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Sole proprietorships (individual/family)      | 7,815     | 6,310  | 3,509                               | 1,882  | 1,703                                | 1,069 | 99                | 99   | 1,216                             | 484   |
| Partnership                                   | 1,176     | 1,055  | 408                                 | 260    | 188                                  | 141   | 25                | 33   | 86                                | 35    |
| Corporation: family held                      | 441       | 483    | 92                                  | 67     | 42                                   | 28    | 19                | 6    | 16                                | 10    |
| Corporation: non-family                       | 113       | 126    | 9                                   | 9      | 4                                    | 2     | 1                 | 0    | 3                                 | 1     |
| Other: co-op, estate/trust, institution, etc. | 81        | 133    | 32                                  | 37     | 15                                   | 25    | 2                 | 3    | 10                                | 6     |
| <b>Central/South Central Coast</b>            |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Sole proprietorships (individual/family)      | 5,296     | 5,249  | 2,075                               | 1,553  | 1,126                                | 1,074 | 156               | 218  | 495                               | 230   |
| Partnership                                   | 1,301     | 1,185  | 386                                 | 316    | 208                                  | 223   | 83                | 98   | 52                                | 21    |
| Corporation: family held                      | 491       | 642    | 95                                  | 76     | 47                                   | 38    | 22                | 13   | 11                                | 8     |
| Corporation: non-family                       | 123       | 117    | 15                                  | 4      | 6                                    | 2     | 5                 | 1    | 4                                 | 1     |
| Other: co-op, estate/trust, institution, etc. | 122       | 159    | 40                                  | 50     | 20                                   | 32    | 5                 | 8    | 13                                | 10    |
| <b>North and Central San Joaquin Valley</b>   |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Sole proprietorships (individual/family)      | 16,856    | 14,428 | 5,480                               | 3,509  | 2,770                                | 2,097 | 131               | 104  | 1,088                             | 384   |
| Partnership                                   | 2,921     | 2,958  | 660                                 | 534    | 212                                  | 189   | 37                | 35   | 78                                | 22    |
| Corporation: family held                      | 1,061     | 1,190  | 188                                 | 167    | 42                                   | 45    | 18                | 20   | 23                                | 14    |
| Corporation: non-family                       | 149       | 129    | 15                                  | 12     | 7                                    | 6     | 2                 | 2    | 3                                 | 0     |
| Other: co-op, estate/trust, institution, etc. | 146       | 262    | 45                                  | 61     | 14                                   | 26    | 1                 | 6    | 8                                 | 1     |
| <b>South San Joaquin Valley</b>               |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Sole proprietorships (individual/family)      | 6,517     | 5,875  | 1,952                               | 1,365  | 892                                  | 724   | 74                | 88   | 441                               | 198   |
| Partnership                                   | 1,605     | 1,828  | 364                                 | 336    | 102                                  | 101   | 28                | 29   | 38                                | 19    |
| Corporation: family held                      | 588       | 556    | 98                                  | 76     | 25                                   | 31    | 11                | 15   | 17                                | 2     |
| Corporation: non-family                       | 93        | 90     | 10                                  | 7      | 3                                    | 3     | 2                 | 0    | 2                                 | 2     |
| Other: co-op, estate/trust, institution, etc. | 84        | 173    | 27                                  | 28     | 8                                    | 9     | 4                 | 3    | 7                                 | 10    |
| <b>Eastside</b>                               |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Sole proprietorships (individual/family)      | 131       | 107    | 91                                  | 56     | 53                                   | 42    | 9                 | 4    | 27                                | 8     |
| Partnership                                   | 26        | 25     | 18                                  | 16     | 10                                   | 15    | 4                 | 5    | 1                                 | 0     |
| Corporation: family held                      | 9         | 13     | 9                                   | 10     | 9                                    | 10    | 6                 | 8    | 0                                 | 0     |
| Corporation: non-family                       | 1         | 2      | 1                                   | 2      | 1                                    | 2     | 1                 | 1    | 0                                 | 0     |
| Other: co-op, estate/trust, institution, etc. | 5         | 10     | 4                                   | 5      | 2                                    | 3     | 2                 | 0    | 1                                 | 1     |
| <b>South Coast/Mojave/Colorado Desert</b>     |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Sole proprietorships (individual/family)      | 12,675    | 10,005 | 3,271                               | 1,195  | 886                                  | 374   | 31                | 27   | 1,711                             | 536   |
| Partnership                                   | 2,103     | 1,427  | 408                                 | 236    | 94                                   | 66    | 20                | 12   | 118                               | 32    |
| Corporation: family held                      | 674       | 683    | 101                                 | 60     | 16                                   | 20    | 3                 | 4    | 33                                | 16    |
| Corporation: non-family                       | 209       | 163    | 35                                  | 24     | 8                                    | 12    | 3                 | 4    | 15                                | 7     |
| Other: co-op, estate/trust, institution, etc. | 200       | 282    | 71                                  | 45     | 32                                   | 19    | 12                | 8    | 26                                | 10    |

=Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

**Appendix C: Number of farms by ownership type and farm type, statewide and regional, 1982 and 1997**

| Land in farms according to use                    | All farms |        | All farms w/cattle, sheep and goats |        | Beef cattle farms excluding feedlots |       |                   |      | Sheep and goat farms and feedlots |       |
|---|-----------|--------|-------------------------------------|--------|--------------------------------------|-------|-------------------|------|-----------------------------------|-------|
|   |           |        |                                     |        | All farms                            |       | Farms 2000+ acres |      |                                   |       |
|   | 1982      | 1997   | 1982                                | 1997   | 1982                                 | 1997  | 1982              | 1997 | 1982                              | 1997  |
| <b>California</b>                                 |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Full owners                                       | 60,436    | 53,878 | 21,093                              | 12,180 | 10,094                               | 6,850 | 446               | 422  | 6,449                             | 2,632 |
| Part owners                                       | 12,669    | 10,888 | 6,073                               | 4,765  | 3,021                                | 2,989 | 737               | 710  | 1,048                             | 474   |
| Tenants   | 9,195     | 9,360  | 3,420                               | 2,801  | 1,735                                | 1,671 | 228               | 305  | 782                               | 367   |
| <b>North Coast</b>                                |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Full owners                                       | 1,477     | 1,331  | 1,008                               | 655    | 547                                  | 409   | 44                | 57   | 283                               | 132   |
| Part owners                                       | 362       | 363    | 312                                 | 289    | 167                                  | 157   | 44                | 38   | 62                                | 41    |
| Tenants   | 239       | 256    | 194                                 | 154    | 102                                  | 72    | 26                | 20   | 33                                | 30    |
| <b>North Interior</b>                             |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Full owners                                       | 1,994     | 1,701  | 1,473                               | 998    | 896                                  | 699   | 100               | 83   | 298                               | 171   |
| Part owners                                       | 641       | 561    | 478                                 | 407    | 308                                  | 305   | 98                | 86   | 73                                | 42    |
| Tenants   | 238       | 242    | 126                                 | 160    | 72                                   | 130   | 8                 | 17   | 27                                | 11    |
| <b>North/South Sacramento Valley/North Sierra</b> |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Full owners                                       | 7,323     | 6,878  | 3,278                               | 1,872  | 1,761                                | 1,150 | 42                | 34   | 867                               | 377   |
| Part owners                                       | 2,095     | 2,012  | 992                                 | 873    | 486                                  | 537   | 116               | 99   | 166                               | 102   |
| Tenants   | 1,232     | 1,603  | 409                                 | 330    | 214                                  | 211   | 17                | 35   | 92                                | 58    |
| <b>North Central and Central Sierra</b>           |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Full owners                                       | 2,798     | 2,621  | 2,018                               | 1,322  | 1,187                                | 825   | 26                | 13   | 662                               | 362   |
| Part owners                                       | 662       | 610    | 605                                 | 514    | 426                                  | 437   | 66                | 85   | 132                               | 61    |
| Tenants   | 227       | 274    | 184                                 | 174    | 139                                  | 150   | 8                 | 16   | 41                                | 18    |
| <b>North and South Bay</b>                        |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Full owners                                       | 6,994     | 5,941  | 2,648                               | 1,348  | 1,219                                | 697   | 43                | 31   | 951                               | 385   |
| Part owners                                       | 1,389     | 1,064  | 802                                 | 508    | 412                                  | 323   | 67                | 69   | 199                               | 66    |
| Tenants   | 1,243     | 1,102  | 600                                 | 399    | 321                                  | 245   | 36                | 41   | 181                               | 85    |
| <b>Central/South Central Coast</b>                |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Full owners                                       | 4,834     | 5,109  | 1,559                               | 1,102  | 795                                  | 695   | 79                | 99   | 418                               | 196   |
| Part owners                                       | 1,086     | 952    | 624                                 | 512    | 336                                  | 383   | 127               | 148  | 78                                | 36    |
| Tenants   | 1,413     | 1,291  | 428                                 | 385    | 276                                  | 291   | 65                | 91   | 79                                | 38    |
| <b>North and Central San Joaquin Valley</b>       |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Full owners                                       | 15,308    | 13,457 | 4,382                               | 2,600  | 2,194                                | 1,492 | 50                | 41   | 946                               | 327   |
| Part owners                                       | 3,673     | 3,125  | 1,334                               | 1,034  | 553                                  | 524   | 120               | 94   | 134                               | 49    |
| Tenants   | 2,152     | 2,385  | 672                                 | 649    | 298                                  | 347   | 19                | 32   | 120                               | 45    |
| <b>South San Joaquin Valley</b>                   |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Full owners                                       | 6,553     | 6,322  | 1,694                               | 1,150  | 718                                  | 534   | 36                | 35   | 402                               | 179   |
| Part owners                                       | 1,495     | 1,309  | 459                                 | 387    | 170                                  | 209   | 63                | 70   | 58                                | 26    |
| Tenants   | 839       | 891    | 298                                 | 275    | 142                                  | 125   | 20                | 30   | 45                                | 26    |
| <b>Eastside</b>                                   |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Full owners                                       | 93        | 83     | 64                                  | 35     | 33                                   | 22    | 5                 | 5    | 20                                | 8     |
| Part owners                                       | 38        | 32     | 28                                  | 25     | 18                                   | 22    | 10                | 6    | 2                                 | 1     |
| Tenants   | 41        | 42     | 31                                  | 29     | 24                                   | 28    | 7                 | 7    | 7                                 | 0     |
| <b>South Coast/Mojave/Colorado Desert</b>         |           |        |                                     |        |                                      |       |                   |      |                                   |       |
| Full owners                                       | 13,062    | 10,431 | 2,969                               | 1,098  | 744                                  | 327   | 21                | 24   | 1,602                             | 495   |
| Part owners                                       | 1,228     | 858    | 439                                 | 216    | 145                                  | 92    | 26                | 15   | 144                               | 50    |
| Tenants   | 1,571     | 1,271  | 478                                 | 246    | 147                                  | 72    | 22                | 16   | 157                               | 56    |

 =Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

**Appendix D: Farms by ownership type and farm type (thousands of acres), statewide and regional, 1992 and 1997**

| Land in farms according to use                    | All farms |        | All farms w/cattle, sheep and goats |       | Beef cattle farms excluding feedlots |       |                   |       | Sheep and goat farms and feedlots |      |
|---|-----------|--------|-------------------------------------|-------|--------------------------------------|-------|-------------------|-------|-----------------------------------|------|
|   |           |        |                                     |       | All farms                            |       | Farms 2000+ acres |       |                                   |      |
|   | 1992      | 1997   | 1992                                | 1997  | 1992                                 | 1997  | 1992              | 1997  | 1992                              | 1997 |
| <b>California</b>                                 |           |        |                                     |       |                                      |       |                   |       |                                   |      |
| Full owners                                       | 9,378     | 9,928  | 5,745                               | 5,704 | 4,296                                | 4,134 | 3,080             | 3,047 | 483                               | 238  |
| Part owners                                       | 13,832    | 12,569 | 10,121                              | 8,947 | 7,732                                | 6,995 | 6,715             | 5,965 | 770                               | 580  |
| Tenants   | 5,769     | 5,202  | 3,761                               | 3,343 | 2,699                                | 2,616 | 2,225             | 2,088 | 738                               | 428  |
| <b>North Coast</b>                                |           |        |                                     |       |                                      |       |                   |       |                                   |      |
| Full owners                                       | 620       | 650    | 512                                 | 557   | 411                                  | 466   | 305               | 370   | 46                                | 52   |
| Part owners                                       | 466       | 405    | 451                                 | 385   | 386                                  | 297   | 338               | 243   | 10                                | 25   |
| Tenants   | 249       | 182    | 244                                 | 174   | 191                                  | 133   | 163               | 110   | 46                                | 32   |
| <b>North Interior</b>                             |           |        |                                     |       |                                      |       |                   |       |                                   |      |
| Full owners                                       | (D)       | 956    | (D)                                 | 807   | (D)                                  | 678   | (D)               | 517   | (D)                               | 24   |
| Part owners                                       | 1,067     | 977    | 994                                 | 885   | 889                                  | 675   | 775               | 558   | 57                                | 105  |
| Tenants   | (D)       | 248    | (D)                                 | 225   | (D)                                  | 206   | (D)               | 166   | (D)                               | (D)  |
| <b>North/South Sacramento Valley/North Sierra</b> |           |        |                                     |       |                                      |       |                   |       |                                   |      |
| Full owners                                       | 1,122     | 1,210  | 585                                 | 509   | 455                                  | 367   | 284               | 217   | 29                                | 36   |
| Part owners                                       | 2,213     | 2,026  | 1,558                               | 1,330 | 1,210                                | 1,066 | 1,041             | 895   | 146                               | 69   |
| Tenants   | 1,025     | 886    | 491                                 | 393   | 339                                  | 302   | 281               | 239   | 118                               | 31   |
| <b>North Central and Central Sierra</b>           |           |        |                                     |       |                                      |       |                   |       |                                   |      |
| Full owners                                       | 357       | 249    | 293                                 | 188   | 254                                  | 163   | 125               | 42    | 26                                | 15   |
| Part owners                                       | 661       | 719    | 611                                 | 679   | 590                                  | 650   | 423               | 497   | 13                                | 22   |
| Tenants   | 121       | 138    | 113                                 | 122   | 108                                  | 120   | 53                | 60    | 5                                 | 0    |
| <b>North and South Bay</b>                        |           |        |                                     |       |                                      |       |                   |       |                                   |      |
| Full owners                                       | (D)       | (D)    | (D)                                 | (D)   | (D)                                  | (D)   | (D)               | (D)   | (D)                               | (D)  |
| Part owners                                       | (D)       | (D)    | (D)                                 | (D)   | (D)                                  | (D)   | (D)               | (D)   | (D)                               | (D)  |
| Tenants   | (D)       | (D)    | (D)                                 | (D)   | (D)                                  | (D)   | (D)               | (D)   | (D)                               | (D)  |
| <b>Central/South Central Coast</b>                |           |        |                                     |       |                                      |       |                   |       |                                   |      |
| Full owners                                       | 1,573     | 1,784  | 1,214                               | 1,361 | 987                                  | 1,120 | 778               | 933   | 29                                | 35   |
| Part owners                                       | 1,888     | 1,762  | 1,573                               | 1,475 | 1,182                                | 1,229 | 1,039             | 1,076 | 153                               | 35   |
| Tenants   | 994       | 975    | 752                                 | 733   | 623                                  | 655   | 515               | 538   | 42                                | 20   |
| <b>North and Central San Joaquin Valley</b>       |           |        |                                     |       |                                      |       |                   |       |                                   |      |
| Full owners                                       | 1,585     | 1,710  | 571                                 | 583   | 375                                  | 352   | 236               | 244   | 13                                | 20   |
| Part owners                                       | 2,547     | 2,344  | 1,477                               | 1,273 | 999                                  | 804   | 844               | 640   | 148                               | 115  |
| Tenants   | 915       | 892    | 386                                 | 416   | 214                                  | 326   | 144               | 259   | 106                               | 24   |
| <b>South San Joaquin Valley</b>                   |           |        |                                     |       |                                      |       |                   |       |                                   |      |
| Full owners                                       | 1,543     | 1,837  | 928                                 | 916   | 457                                  | 419   | 394               | 347   | 292                               | 394  |
| Part owners                                       | 2,323     | 2,091  | 1,338                               | 1,162 | 747                                  | 747   | 688               | 685   | 229                               | 181  |
| Tenants   | 1,104     | 890    | 733                                 | 592   | 325                                  | 299   | 304               | 255   | 381                               | 272  |
| <b>Eastside</b>                                   |           |        |                                     |       |                                      |       |                   |       |                                   |      |
| Full owners                                       | (D)       | (D)    | (D)                                 | (D)   | (D)                                  | (D)   | (D)               | (D)   | (D)                               | (D)  |
| Part owners                                       | (D)       | (D)    | (D)                                 | (D)   | (D)                                  | (D)   | (D)               | (D)   | (D)                               | (D)  |
| Tenants   | (D)       | (D)    | (D)                                 | (D)   | (D)                                  | (D)   | (D)               | (D)   | (D)                               | (D)  |
| <b>South Coast/Mojave/Colorado Desert</b>         |           |        |                                     |       |                                      |       |                   |       |                                   |      |
| Full owners                                       | 765       | 704    | 341                                 | 328   | 233                                  | 220   | 179               | 172   | 19                                | 24   |
| Part owners                                       | 1,685     | 1,387  | 1,294                               | 1,025 | 1,083                                | 903   | 1,046             | 879   | 96                                | 12   |
| Tenants   | 555       | 495    | 337                                 | 249   | 301                                  | 199   | 285               | 180   | 16                                | 26   |

=Forest and rangeland farms  
 (D) Data withheld due to disclosure issues  
 Source: National Agricultural Statistics Service, 2001a

**Appendix E: Farm operators by principal occupation and years on present farm as a percentage of the state average, 1997**

| Operator characteristics   | Beef cattle excluding feedlots |                  |                    |                      |                   |
|--|--------------------------------|------------------|--------------------|----------------------|-------------------|
|  | All farms                      | Farms 1-49 acres | Farms 50-499 acres | Farms 500-1999 acres | Farms 2000+ acres |
| <b>North and South Sacramento Valley and North Sierra Region</b> |                                |                  |                    |                      |                   |
| Operators by principal occupation                                |                                |                  |                    |                      |                   |
| Other as % total operators                                       | 99%                            | 97%              | 93%                | 96%                  | 75%               |
| Operators by years on present farm                               |                                |                  |                    |                      |                   |
| Less than 5 years as % of total                                  | 97%                            | 95%              | 93%                | 109%                 | 81%               |
| Greater than 10 years as % total                                 | 100%                           | 101%             | 100%               | 98%                  | 101%              |
| <b>South Coast, Mojave/Colorado Desert Region</b>                |                                |                  |                    |                      |                   |
| Operators by principal occupation                                |                                |                  |                    |                      |                   |
| Other as % total operators                                       | 108%                           | 96%              | 110%               | 135%                 | 118%              |
| Operators by years on present farm                               |                                |                  |                    |                      |                   |
| Less than 5 years as % of total                                  | 95%                            | 111%             | 73%                | 57%                  | 111%              |
| Greater than 10 years as % total                                 | 97%                            | 97%              | 105%               | 93%                  | 91%               |
| <b>Eastside Region</b>   |                                |                  |                    |                      |                   |
| Operators by principal occupation                                |                                |                  |                    |                      |                   |
| Other as % total operators                                       | 50%                            | 65%              | 66%                | 60%                  | 52%               |
| Operators by years on present farm                               |                                |                  |                    |                      |                   |
| Less than 5 years as % of total                                  | 139%                           | 0%               | 163%               | 238%                 | 76%               |
| Greater than 10 years as % total                                 | 111%                           | 155%             | 99%                | 93%                  | 123%              |
| <b>South San Joaquin Valley Region</b>                           |                                |                  |                    |                      |                   |
| Operators by principal occupation                                |                                |                  |                    |                      |                   |
| Other as % total operators                                       | 106%                           | 103%             | 109%               | 109%                 | 124%              |
| Operators by years on present farm                               |                                |                  |                    |                      |                   |
| Less than 5 years as % of total                                  | 104%                           | 90%              | 134%               | 96%                  | 110%              |
| Greater than 10 years as % total                                 | 93%                            | 96%              | 89%                | 91%                  | 92%               |
| <b>North and Central San Joaquin Valley Region</b>               |                                |                  |                    |                      |                   |
| Operators by principal occupation                                |                                |                  |                    |                      |                   |
| Other as % total operators                                       | 107%                           | 101%             | 93%                | 90%                  | 67%               |
| Operators by years on present farm                               |                                |                  |                    |                      |                   |
| Less than 5 years as % of total                                  | 105%                           | 104%             | 106%               | 80%                  | 38%               |
| Greater than 10 years as % total                                 | 97%                            | 98%              | 98%                | 103%                 | 107%              |
| <b>Central and South Central Coast Region</b>                    |                                |                  |                    |                      |                   |
| Operators by principal occupation                                |                                |                  |                    |                      |                   |
| Other as % total operators                                       | 94%                            | 106%             | 110%               | 110%                 | 115%              |
| Operators by years on present farm                               |                                |                  |                    |                      |                   |
| Less than 5 years as % of total                                  | 109%                           | 110%             | 134%               | 99%                  | 132%              |
| Greater than 10 years as % total                                 | 99%                            | 99%              | 90%                | 100%                 | 96%               |
| <b>North and South Bay Region</b>                                |                                |                  |                    |                      |                   |
| Operators by principal occupation                                |                                |                  |                    |                      |                   |
| Other as % total operators                                       | 100%                           | 98%              | 107%               | 97%                  | 105%              |
| Operators by years on present farm                               |                                |                  |                    |                      |                   |
| Less than 5 years as % of total                                  | 86%                            | 106%             | 79%                | 66%                  | 96%               |
| Greater than 10 years as % total                                 | 110%                           | 115%             | 107%               | 114%                 | 100%              |
| <b>North and North Central Sierra Region</b>                     |                                |                  |                    |                      |                   |
| Operators by principal occupation                                |                                |                  |                    |                      |                   |
| Other as % total operators                                       | 105%                           | 101%             | 103%               | 106%                 | 98%               |
| Operators by years on present farm                               |                                |                  |                    |                      |                   |
| Less than 5 years as % of total                                  | 89%                            | 84%              | 84%                | 108%                 | 97%               |
| Greater than 10 years as % total                                 | 102%                           | 99%              | 108%               | 97%                  | 104%              |
| <b>North Interior Region</b>                                     |                                |                  |                    |                      |                   |
| Operators by principal occupation                                |                                |                  |                    |                      |                   |
| Other as %total operators  | 87%                            | 103%             | 91%                | 81%                  | 60%               |
| Operators by years on present farm                               |                                |                  |                    |                      |                   |
| Less than 5 years as % of total                                  | 121%                           | 125%             | 121%               | 163%                 | 89%               |
| Greater than 10 years as % total                                 | 97%                            | 95%              | 94%                | 94%                  | 103%              |
| <b>North Coast Region</b>  |                                |                  |                    |                      |                   |
| Operators by principal occupation                                |                                |                  |                    |                      |                   |
| Other as % total operators                                       | 98%                            | 91%              | 104%               | 107%                 | 173%              |
| Operators by years on present farm                               |                                |                  |                    |                      |                   |
| Less than 5 years as % of total                                  | 77%                            | 85%              | 69%                | 60%                  | 134%              |
| Greater than 10 years as % total                                 | 106%                           | 109%             | 106%               | 103%                 | 100%              |

 =Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

**Appendix F: Number of farms with sheep and lambs by farm type and herd size, statewide and regional, 1982, 1987, 1992 and 1997**

| Region, year and herd size         | Farms with cattle, sheep and goats |                        |                                      |             |                                   |
|------------------------------------|------------------------------------|------------------------|--------------------------------------|-------------|-----------------------------------|
|                                    | All farms w/cattle sheep and goats | Principally crop farms | Beef cattle farms excluding feedlots | Dairy farms | Sheep and goat farms and feedlots |
| <b>California</b>                  |                                    |                        |                                      |             |                                   |
| Sheep/lambs (farms)                |                                    |                        |                                      |             |                                   |
| 1982                               | 5,565                              | 993                    | 1,261                                | 58          | 3,253                             |
| 1987                               | 4,602                              | 778                    | 1,040                                | 40          | 2,744                             |
| 1992                               | 3,692                              | 667                    | 809                                  | 40          | 2,176                             |
| 1997                               | 3,014                              | 568                    | 667                                  | 27          | 1,752                             |
| Sheep/lambs (farms w/1-24 head)    |                                    |                        |                                      |             |                                   |
| 1982                               | 3,668                              | 671                    | 922                                  | 46          | 2,029                             |
| 1987                               | 2,826                              | 527                    | 743                                  | 26          | 1,530                             |
| 1992                               | 2,274                              | 463                    | 565                                  | 23          | 1,223                             |
| 1997                               | 1,894                              | 407                    | 483                                  | 16          | 988                               |
| Sheep/lambs (farms w/25-99 head)   |                                    |                        |                                      |             |                                   |
| 1982                               | 1,083                              | 167                    | 215                                  | 4           | 697                               |
| 1987                               | 1,089                              | 138                    | 205                                  | 7           | 739                               |
| 1992                               | 875                                | 114                    | 155                                  | 9           | 597                               |
| 1997                               | 746                                | 95                     | 133                                  | 8           | 510                               |
| Sheep/lambs (farms w/100-299 head) |                                    |                        |                                      |             |                                   |
| 1982                               | 359                                | 68                     | 79                                   | 2           | 210                               |
| 1987                               | 303                                | 54                     | 53                                   | 4           | 192                               |
| 1992                               | 264                                | 44                     | 50                                   | 5           | 165                               |
| 1997                               | 189                                | 30                     | 34                                   | 2           | 123                               |
| Sheep/lambs (farms w/300-999 head) |                                    |                        |                                      |             |                                   |
| 1982                               | 214                                | 38                     | 32                                   | 4           | 140                               |
| 1987                               | 185                                | 24                     | 26                                   | 2           | 133                               |
| 1992                               | 132                                | 18                     | 28                                   | 1           | 85                                |
| 1997                               | 75                                 | 16                     | 9                                    | 0           | 50                                |
| Sheep/lambs (farms w/1000+ head)   |                                    |                        |                                      |             |                                   |
| 1982                               | 241                                | 49                     | 13                                   | 2           | 177                               |
| 1987                               | 199                                | 35                     | 13                                   | 1           | 150                               |
| 1992                               | 147                                | 28                     | 11                                   | 2           | 106                               |
| 1997                               | 110                                | 20                     | 8                                    | 1           | 81                                |
| <b>North Coast</b>                 |                                    |                        |                                      |             |                                   |
| Sheep/lambs (farms)                |                                    |                        |                                      |             |                                   |
| 1982                               | 413                                | 51                     | 131                                  | 5           | 226                               |
| 1987                               | 384                                | 43                     | 106                                  | 9           | 226                               |
| 1992                               | 348                                | 64                     | 105                                  | 7           | 172                               |
| 1997                               | 271                                | 52                     | 74                                   | 6           | 139                               |
| Sheep/lambs (farms w/1-24 head)    |                                    |                        |                                      |             |                                   |
| 1982                               | 170                                | 27                     | 67                                   | 4           | 72                                |
| 1987                               | 141                                | 19                     | 45                                   | 5           | 72                                |
| 1992                               | 157                                | 37                     | 50                                   | 5           | 65                                |
| 1997                               | 123                                | 38                     | 37                                   | 3           | 45                                |
| Sheep/lambs (farms w/25-99 head)   |                                    |                        |                                      |             |                                   |
| 1982                               | 109                                | 13                     | 26                                   | 0           | 70                                |
| 1987                               | 132                                | 20                     | 30                                   | 3           | 79                                |
| 1992                               | 104                                | 16                     | 32                                   | 1           | 55                                |
| 1997                               | 108                                | 9                      | 27                                   | 3           | 69                                |
| Sheep/lambs (farms w/100-299 head) |                                    |                        |                                      |             |                                   |
| 1982                               | 73                                 | 9                      | 21                                   | 1           | 42                                |
| 1987                               | 55                                 | 3                      | 16                                   | 1           | 35                                |
| 1992                               | 55                                 | 10                     | 12                                   | 1           | 32                                |
| 1997                               | 29                                 | 5                      | 7                                    | 0           | 17                                |
| Sheep/lambs (farms w/300-999 head) |                                    |                        |                                      |             |                                   |
| 1982                               | 49                                 | 2                      | 15                                   | 0           | 32                                |
| 1987                               | 50                                 | 1                      | 14                                   | 0           | 35                                |
| 1992                               | 27                                 | 1                      | 10                                   | 0           | 16                                |
| 1997                               | 11                                 | 0                      | 3                                    | 0           | 8                                 |
| Sheep/lambs (farms w/1000+ head)   |                                    |                        |                                      |             |                                   |
| 1982                               | 12                                 | 0                      | 2                                    | 0           | 10                                |
| 1987                               | 6                                  | 0                      | 1                                    | 0           | 5                                 |
| 1992                               | 5                                  | 0                      | 1                                    | 0           | 4                                 |
| 1997                               | 0                                  | 0                      | 0                                    | 0           | 0                                 |
| <b>North Interior</b>              |                                    |                        |                                      |             |                                   |
| Sheep/lambs (farms)                |                                    |                        |                                      |             |                                   |
| 1982                               | 403                                | 87                     | 131                                  | 1           | 184                               |
| 1987                               | 322                                | 46                     | 111                                  | 0           | 165                               |
| 1992                               | 241                                | 35                     | 81                                   | 1           | 124                               |
| 1997                               | 205                                | 25                     | 58                                   | 1           | 121                               |
| Sheep/lambs (farms w/1-24 head)    |                                    |                        |                                      |             |                                   |
| 1982                               | 237                                | 44                     | 83                                   | 1           | 109                               |
| 1987                               | 168                                | 24                     | 67                                   | 0           | 77                                |
| 1992                               | 138                                | 18                     | 58                                   | 1           | 61                                |
| 1997                               | 122                                | 16                     | 37                                   | 1           | 68                                |

|   |     |     |     |   |     |
|---|-----|-----|-----|---|-----|
| Sheep/lambs (farms w/25-99 head)                  |     |     |     |   |     |
| 1982  | 105 | 27  | 37  | 0 | 41  |
| 1987  | 108 | 17  | 33  | 0 | 58  |
| 1992  | 75  | 12  | 15  | 0 | 48  |
| 1997  | 64  | 7   | 16  | 0 | 41  |
| Sheep/lambs (farms w/100-299 head)                |     |     |     |   |     |
| 1982  | 33  | 9   | 9   | 0 | 15  |
| 1987  | 23  | 4   | 6   | 0 | 13  |
| 1992  | 17  | 4   | 4   | 0 | 9   |
| 1997  | 10  | 1   | 2   | 0 | 7   |
| Sheep/lambs (farms w/300-999 head)                |     |     |     |   |     |
| 1982  | 17  | 7   | 1   | 0 | 9   |
| 1987  | 17  | 1   | 4   | 0 | 12  |
| 1992  | 6   | 1   | 3   | 0 | 2   |
| 1997  | 5   | 0   | 3   | 0 | 2   |
| Sheep/lambs (farms w/1000+ head)                  |     |     |     |   |     |
| 1982  | 11  | 0   | 1   | 0 | 10  |
| 1987  | 6   | 0   | 1   | 0 | 5   |
| 1992  | 5   | 0   | 1   | 0 | 4   |
| 1997  | 4   | 1   | 0   | 0 | 3   |
| <b>North/South Sacramento Valley/North Sierra</b> |     |     |     |   |     |
| Sheep/lambs (farms)                               |     |     |     |   |     |
| 1982  | 939 | 213 | 225 | 5 | 496 |
| 1987  | 813 | 158 | 196 | 3 | 456 |
| 1992  | 675 | 131 | 150 | 4 | 390 |
| 1997  | 579 | 116 | 145 | 4 | 314 |
| Sheep/lambs (farms w/1-24 head)                   |     |     |     |   |     |
| 1982  | 536 | 113 | 164 | 3 | 256 |
| 1987  | 448 | 89  | 144 | 3 | 212 |
| 1992  | 365 | 74  | 107 | 4 | 180 |
| 1997  | 338 | 64  | 107 | 2 | 165 |
| Sheep/lambs (farms w/25-99 head)                  |     |     |     |   |     |
| 1982  | 197 | 40  | 39  | 1 | 117 |
| 1987  | 190 | 23  | 31  | 0 | 136 |
| 1992  | 173 | 26  | 25  | 0 | 122 |
| 1997  | 151 | 28  | 27  | 0 | 96  |
| Sheep/lambs (farms w/100-299 head)                |     |     |     |   |     |
| 1982  | 68  | 13  | 10  | 1 | 44  |
| 1987  | 70  | 16  | 13  | 0 | 41  |
| 1992  | 60  | 13  | 11  | 0 | 36  |
| 1997  | 38  | 10  | 5   | 2 | 21  |
| Sheep/lambs (farms w/300-999 head)                |     |     |     |   |     |
| 1982  | 58  | 21  | 3   | 0 | 34  |
| 1987  | 43  | 14  | 3   | 0 | 26  |
| 1992  | 34  | 8   | 3   | 0 | 23  |
| 1997  | 26  | 7   | 3   | 0 | 16  |
| Sheep/lambs (farms w/1000+ head)                  |     |     |     |   |     |
| 1982  | 80  | 26  | 9   | 0 | 45  |
| 1987  | 62  | 16  | 5   | 0 | 41  |
| 1992  | 43  | 10  | 4   | 0 | 29  |
| 1997  | 26  | 7   | 3   | 0 | 16  |
| <b>North Central and Central Sierra</b>           |     |     |     |   |     |
| Sheep/lambs (farms)                               |     |     |     |   |     |
| 1982  | 536 | 44  | 153 | 2 | 337 |
| 1987  | 421 | 46  | 127 | 2 | 246 |
| 1992  | 388 | 47  | 105 | 2 | 234 |
| 1997  | 353 | 48  | 87  | 0 | 218 |
| Sheep/lambs (farms w/1-24 head)                   |     |     |     |   |     |
| 1982  | 385 | 30  | 110 | 2 | 243 |
| 1987  | 293 | 29  | 93  | 2 | 169 |
| 1992  | 264 | 36  | 68  | 0 | 160 |
| 1997  | 246 | 36  | 69  | 0 | 141 |
| Sheep/lambs (farms w/25-99 head)                  |     |     |     |   |     |
| 1982  | 104 | 4   | 29  | 0 | 71  |
| 1987  | 93  | 8   | 24  | 0 | 61  |
| 1992  | 93  | 5   | 28  | 2 | 58  |
| 1997  | 84  | 8   | 15  | 0 | 61  |
| Sheep/lambs (farms w/100-299 head)                |     |     |     |   |     |
| 1982  | 34  | 10  | 12  | 0 | 12  |
| 1987  | 26  | 9   | 9   | 0 | 8   |
| 1992  | 25  | 5   | 6   | 0 | 14  |
| 1997  | 21  | 4   | 3   | 0 | 14  |
| Sheep/lambs (farms w/300-999 head)                |     |     |     |   |     |
| 1982  | 6   | 0   | 2   | 0 | 4   |
| 1987  | 5   | 0   | 1   | 0 | 4   |
| 1992  | 3   | 0   | 1   | 0 | 2   |
| 1997  | 2   | 0   | 0   | 0 | 2   |
| Sheep/lambs (farms w/1000+ head)                  |     |     |     |   |     |
| 1982  | 7   | 0   | 0   | 0 | 7   |
| 1987  | 4   | 0   | 0   | 0 | 4   |
| 1992  | 3   | 1   | 2   | 0 | 0   |

|   |      |     |     |    |     |
|---|------|-----|-----|----|-----|
| 1997  | 0    | 0   | 0   | 0  | 0   |
| <b>North and South Bay</b>                  |      |     |     |    |     |
| Sheep/lambs (farms)                         |      |     |     |    |     |
| 1982  | 1018 | 142 | 198 | 8  | 670 |
| 1987  | 908  | 135 | 161 | 8  | 604 |
| 1992  | 666  | 107 | 116 | 9  | 434 |
| 1997  | 525  | 94  | 99  | 4  | 328 |
| Sheep/lambs (farms w/1-24 head)             |      |     |     |    |     |
| 1982  | 658  | 99  | 140 | 4  | 415 |
| 1987  | 566  | 96  | 124 | 2  | 344 |
| 1992  | 371  | 80  | 71  | 2  | 218 |
| 1997  | 315  | 69  | 63  | 2  | 181 |
| Sheep/lambs (farms w/25-99 head)            |      |     |     |    |     |
| 1982  | 214  | 28  | 36  | 0  | 150 |
| 1987  | 224  | 27  | 26  | 1  | 170 |
| 1992  | 181  | 22  | 23  | 2  | 134 |
| 1997  | 137  | 21  | 24  | 1  | 91  |
| Sheep/lambs (farms w/100-299 head)          |      |     |     |    |     |
| 1982  | 74   | 13  | 15  | 0  | 46  |
| 1987  | 61   | 9   | 4   | 2  | 46  |
| 1992  | 60   | 4   | 10  | 3  | 43  |
| 1997  | 47   | 2   | 12  | 0  | 33  |
| Sheep/lambs (farms w/300-999 head)          |      |     |     |    |     |
| 1982  | 53   | 2   | 7   | 3  | 41  |
| 1987  | 41   | 1   | 4   | 2  | 34  |
| 1992  | 43   | 0   | 11  | 1  | 31  |
| 1997  | 13   | 1   | 0   | 0  | 12  |
| Sheep/lambs (farms w/1000+ head)            |      |     |     |    |     |
| 1982  | 19   | 0   | 0   | 1  | 18  |
| 1987  | 16   | 2   | 3   | 1  | 10  |
| 1992  | 11   | 1   | 1   | 1  | 8   |
| 1997  | 13   | 1   | 0   | 1  | 11  |
| <b>Central/South Central Coast</b>          |      |     |     |    |     |
| Sheep/lambs (farms)                         |      |     |     |    |     |
| 1982  | 416  | 94  | 102 | 3  | 217 |
| 1987  | 387  | 67  | 82  | 0  | 238 |
| 1992  | 270  | 49  | 55  | 1  | 165 |
| 1997  | 224  | 39  | 60  | 0  | 125 |
| Sheep/lambs (farms w/1-24 head)             |      |     |     |    |     |
| 1982  | 283  | 71  | 76  | 2  | 134 |
| 1987  | 260  | 57  | 56  | 0  | 147 |
| 1992  | 195  | 42  | 45  | 1  | 107 |
| 1997  | 160  | 36  | 49  | 0  | 75  |
| Sheep/lambs (farms w/25-99 head)            |      |     |     |    |     |
| 1982  | 91   | 16  | 20  | 0  | 55  |
| 1987  | 94   | 8   | 22  | 0  | 64  |
| 1992  | 56   | 6   | 6   | 0  | 44  |
| 1997  | 36   | 2   | 7   | 0  | 27  |
| Sheep/lambs (farms w/100-299 head)          |      |     |     |    |     |
| 1982  | 25   | 4   | 5   | 0  | 16  |
| 1987  | 21   | 1   | 3   | 0  | 17  |
| 1992  | 9    | 1   | 3   | 0  | 5   |
| 1997  | 18   | 0   | 3   | 0  | 15  |
| Sheep/lambs (farms w/300-999 head)          |      |     |     |    |     |
| 1982  | 9    | 1   | 1   | 1  | 6   |
| 1987  | 5    | 0   | 0   | 0  | 5   |
| 1992  | 4    | 0   | 0   | 0  | 4   |
| 1997  | 5    | 1   | 0   | 0  | 4   |
| Sheep/lambs (farms w/1000+ head)            |      |     |     |    |     |
| 1982  | 8    | 2   | 0   | 0  | 6   |
| 1987  | 7    | 1   | 1   | 0  | 5   |
| 1992  | 6    | 0   | 1   | 0  | 5   |
| 1997  | 5    | 0   | 1   | 0  | 4   |
| <b>North and Central San Joaquin Valley</b> |      |     |     |    |     |
| Sheep/lambs (farms)                         |      |     |     |    |     |
| 1982  | 778  | 186 | 203 | 19 | 370 |
| 1987  | 579  | 134 | 159 | 10 | 276 |
| 1992  | 478  | 121 | 115 | 8  | 234 |
| 1997  | 367  | 96  | 89  | 7  | 175 |
| Sheep/lambs (farms w/1-24 head)             |      |     |     |    |     |
| 1982  | 571  | 155 | 173 | 17 | 226 |
| 1987  | 395  | 96  | 131 | 9  | 159 |
| 1992  | 325  | 99  | 96  | 6  | 124 |
| 1997  | 249  | 76  | 72  | 4  | 97  |
| Sheep/lambs (farms w/25-99 head)            |      |     |     |    |     |
| 1982  | 137  | 22  | 20  | 2  | 93  |
| 1987  | 125  | 22  | 25  | 0  | 78  |
| 1992  | 104  | 16  | 17  | 1  | 70  |
| 1997  | 84   | 11  | 14  | 3  | 56  |
| Sheep/lambs (farms w/100-299 head)          |      |     |     |    |     |
| 1982  | 31   | 6   | 6   | 0  | 19  |

|   |     |    |    |   |     |
|---|-----|----|----|---|-----|
| 1987                                      | 29  | 10 | 1  | 1 | 17  |
| 1992                                      | 29  | 5  | 1  | 1 | 22  |
| 1997                                      | 16  | 5  | 1  | 0 | 10  |
| <b>Sheep/lambs (farms w/300-999 head)</b> |     |    |    |   |     |
| 1982                                      | 12  | 2  | 3  | 0 | 7   |
| 1987                                      | 9   | 3  | 0  | 0 | 6   |
| 1992                                      | 5   | 0  | 0  | 0 | 5   |
| 1997                                      | 6   | 2  | 0  | 0 | 4   |
| <b>Sheep/lambs (farms w/1000+ head)</b>   |     |    |    |   |     |
| 1982                                      | 27  | 1  | 1  | 0 | 25  |
| 1987                                      | 21  | 3  | 2  | 0 | 16  |
| 1992                                      | 15  | 1  | 1  | 0 | 13  |
| 1997                                      | 12  | 2  | 2  | 0 | 8   |
| <b>South San Joaquin Valley</b>           |     |    |    |   |     |
| <b>Sheep/lambs (farms)</b>                |     |    |    |   |     |
| 1982                                      | 317 | 80 | 45 | 7 | 185 |
| 1987                                      | 262 | 66 | 52 | 5 | 139 |
| 1992                                      | 217 | 46 | 32 | 3 | 136 |
| 1997                                      | 177 | 46 | 19 | 4 | 108 |
| <b>Sheep/lambs (farms w/1-24 head)</b>    |     |    |    |   |     |
| 1982                                      | 221 | 61 | 39 | 6 | 115 |
| 1987                                      | 171 | 54 | 43 | 3 | 71  |
| 1992                                      | 155 | 35 | 31 | 0 | 89  |
| 1997                                      | 114 | 38 | 17 | 3 | 56  |
| <b>Sheep/lambs (farms w/25-99 head)</b>   |     |    |    |   |     |
| 1982                                      | 54  | 10 | 6  | 1 | 37  |
| 1987                                      | 45  | 7  | 9  | 2 | 27  |
| 1992                                      | 31  | 8  | 0  | 3 | 20  |
| 1997                                      | 31  | 5  | 1  | 1 | 24  |
| <b>Sheep/lambs (farms w/100-299 head)</b> |     |    |    |   |     |
| 1982                                      | 6   | 3  | 0  | 0 | 3   |
| 1987                                      | 7   | 2  | 0  | 0 | 5   |
| 1992                                      | 3   | 1  | 1  | 0 | 1   |
| 1997                                      | 5   | 2  | 0  | 0 | 3   |
| <b>Sheep/lambs (farms w/300-999 head)</b> |     |    |    |   |     |
| 1982                                      | 4   | 2  | 0  | 0 | 2   |
| 1987                                      | 5   | 1  | 0  | 0 | 4   |
| 1992                                      | 4   | 2  | 0  | 0 | 2   |
| 1997                                      | 2   | 0  | 0  | 0 | 2   |
| <b>Sheep/lambs (farms w/1000+ head)</b>   |     |    |    |   |     |
| 1982                                      | 32  | 4  | 0  | 0 | 28  |
| 1987                                      | 34  | 2  | 0  | 0 | 32  |
| 1992                                      | 24  | 0  | 0  | 0 | 24  |
| 1997                                      | 25  | 1  | 1  | 0 | 23  |
| <b>Eastside</b>                           |     |    |    |   |     |
| <b>Sheep/lambs (farms)</b>                |     |    |    |   |     |
| 1982                                      | 19  | 4  | 3  | 0 | 12  |
| 1987                                      | 22  | 4  | 10 | 0 | 8   |
| 1992                                      | 15  | 1  | 6  | 0 | 8   |
| 1997                                      | 17  | 2  | 8  | 0 | 7   |
| <b>Sheep/lambs (farms w/1-24 head)</b>    |     |    |    |   |     |
| 1982                                      | 12  | 2  | 1  | 0 | 9   |
| 1987                                      | 13  | 1  | 9  | 0 | 3   |
| 1992                                      | 8   | 1  | 4  | 0 | 3   |
| 1997                                      | 11  | 1  | 6  | 0 | 4   |
| <b>Sheep/lambs (farms w/25-99 head)</b>   |     |    |    |   |     |
| 1982                                      | 2   | 1  | 1  | 0 | 0   |
| 1987                                      | 6   | 1  | 1  | 0 | 4   |
| 1992                                      | 4   | 0  | 2  | 0 | 2   |
| 1997                                      | 2   | 0  | 1  | 0 | 1   |
| <b>Sheep/lambs (farms w/100-299 head)</b> |     |    |    |   |     |
| 1982                                      | 3   | 1  | 1  | 0 | 1   |
| 1987                                      | 0   | 0  | 0  | 0 | 0   |
| 1992                                      | 0   | 0  | 0  | 0 | 0   |
| 1997                                      | 1   | 0  | 1  | 0 | 0   |
| <b>Sheep/lambs (farms w/300-999 head)</b> |     |    |    |   |     |
| 1982                                      | 0   | 0  | 0  | 0 | 0   |
| 1987                                      | 1   | 1  | 0  | 0 | 0   |
| 1992                                      | 0   | 0  | 0  | 0 | 0   |
| 1997                                      | 0   | 0  | 0  | 0 | 0   |
| <b>Sheep/lambs (farms w/1000+ head)</b>   |     |    |    |   |     |
| 1982                                      | 2   | 0  | 0  | 0 | 2   |
| 1987                                      | 2   | 1  | 0  | 0 | 1   |
| 1992                                      | 3   | 0  | 0  | 0 | 3   |
| 1997                                      | 3   | 1  | 0  | 0 | 2   |
| <b>South Coast/Mojave/Colorado Desert</b> |     |    |    |   |     |
| <b>Sheep/lambs (farms)</b>                |     |    |    |   |     |
| 1982                                      | 726 | 92 | 70 | 8 | 556 |
| 1987                                      | 504 | 79 | 36 | 3 | 386 |
| 1992                                      | 394 | 66 | 44 | 5 | 279 |
| 1997                                      | 296 | 50 | 28 | 1 | 217 |

|                                    |     |    |    |   |     |
|------------------------------------|-----|----|----|---|-----|
| Sheep/lambs (farms w/1-24 head)    |     |    |    |   |     |
| 1982                               | 595 | 69 | 69 | 7 | 450 |
| 1987                               | 371 | 62 | 31 | 2 | 276 |
| 1992                               | 296 | 41 | 35 | 4 | 216 |
| 1997                               | 216 | 33 | 26 | 1 | 156 |
| Sheep/lambs (farms w/25-99 head)   |     |    |    |   |     |
| 1982                               | 70  | 6  | 1  | 0 | 63  |
| 1987                               | 72  | 5  | 4  | 1 | 62  |
| 1992                               | 54  | 3  | 7  | 0 | 44  |
| 1997                               | 49  | 4  | 1  | 0 | 44  |
| Sheep/lambs (farms w/100-299 head) |     |    |    |   |     |
| 1982                               | 12  | 0  | 0  | 0 | 12  |
| 1987                               | 11  | 0  | 1  | 0 | 10  |
| 1992                               | 6   | 1  | 2  | 0 | 3   |
| 1997                               | 4   | 1  | 0  | 0 | 3   |
| Sheep/lambs (farms w/300-999 head) |     |    |    |   |     |
| 1982                               | 6   | 1  | 0  | 0 | 5   |
| 1987                               | 9   | 2  | 0  | 0 | 7   |
| 1992                               | 6   | 6  | 0  | 0 | 0   |
| 1997                               | 5   | 5  | 0  | 0 | 0   |
| Sheep/lambs (farms w/1000+ head)   |     |    |    |   |     |
| 1982                               | 43  | 16 | 0  | 1 | 26  |
| 1987                               | 41  | 10 | 0  | 0 | 31  |
| 1992                               | 32  | 15 | 0  | 1 | 16  |
| 1997                               | 22  | 7  | 1  | 0 | 14  |

Source: National Agricultural Statistics Service, 2001a

**Appendix G: Number of beef cattle farms excluding feedlots, regional and statewide, 1982, 1987, 1992 and 1997**

| Region, herd size and year                    | Beef Cattle Excluding Feedlots |                  |                    |                      |                   |
|---|--------------------------------|------------------|--------------------|----------------------|-------------------|
|   | All Farms                      | Farms 1-49 Acres | Farms 50-499 Acres | Farms 500-1999 Acres | Farms 2000+ Acres |
| <b>California</b>                             |                                |                  |                    |                      |                   |
| <b>Cattle and Calves (Farms)</b>              |                                |                  |                    |                      |                   |
| 1982  | 14,243                         | 6,964            | 4,088              | 1,811                | 1,380             |
| 1987  | 13,359                         | 5,646            | 4,231              | 1,991                | 1,491             |
| 1992  | 11,914                         | 4,818            | 3,832              | 1,821                | 1,443             |
| 1997  | 11,139                         | 4,210            | 3,706              | 1,799                | 1,424             |
| <b>Cattle and Calves (Farms w/ 1-49 Head)</b> |                                |                  |                    |                      |                   |
| 1982  | 9,587                          | 6,474            | 2,688              | 375                  | 50                |
| 1987  | 8,558                          | 5,153            | 2,860              | 476                  | 69                |
| 1992  | 7,307                          | 4,351            | 2,503              | 397                  | 56                |
| 1997  | 6,626                          | 3,790            | 2,405              | 370                  | 61                |
| <b>Cattle/Calves (Farms w/50-199 Head)</b>    |                                |                  |                    |                      |                   |
| 1982  | 2,816                          | 413              | 1,250              | 926                  | 227               |
| 1987  | 2,919                          | 381              | 1,212              | 1,024                | 302               |
| 1992  | 2,838                          | 363              | 1,163              | 988                  | 324               |
| 1997  | 2,702                          | 322              | 1,110              | 992                  | 278               |
| <b>Cattle/Calves (Farms w/200-499 Head)</b>   |                                |                  |                    |                      |                   |
| 1982  | 1,010                          | 48               | 117                | 407                  | 438               |
| 1987  | 1,095                          | 71               | 118                | 387                  | 519               |
| 1992  | 1,027                          | 70               | 117                | 351                  | 489               |
| 1997  | 1,061                          | 52               | 148                | 352                  | 509               |
| <b>Cattle and Calves (Farms w/500+ Head)</b>  |                                |                  |                    |                      |                   |
| 1982  | 830                            | 29               | 33                 | 103                  | 665               |
| 1987  | 787                            | 41               | 41                 | 104                  | 601               |
| 1992  | 742                            | 34               | 49                 | 85                   | 574               |
| 1997  | 750                            | 46               | 43                 | 85                   | 576               |
| <b>North Coast</b>                            |                                |                  |                    |                      |                   |
| <b>Cattle and Calves (Farms)</b>              |                                |                  |                    |                      |                   |
| 1982  | 788                            | 256              | 304                | 116                  | 112               |
| 1987  | 743                            | 221              | 289                | 109                  | 124               |
| 1992  | 733                            | 212              | 288                | 116                  | 117               |
| 1997  | 616                            | 147              | 240                | 115                  | 114               |
| <b>Cattle and Calves (Farms w/ 1-49 Head)</b> |                                |                  |                    |                      |                   |
| 1982  | 528                            | 245              | 223                | 45                   | 15                |
| 1987  | 467                            | 207              | 211                | 37                   | 12                |
| 1992  | 438                            | 193              | 207                | 34                   | 4                 |
| 1997  | 346                            | 137              | 157                | 43                   | 9                 |
| <b>Cattle/Calves (Farms w/50-199 Head)</b>    |                                |                  |                    |                      |                   |
| 1982  | 174                            | 11               | 74                 | 61                   | 28                |
| 1987  | 185                            | 14               | 74                 | 58                   | 39                |
| 1992  | 193                            | 14               | 78                 | 58                   | 43                |
| 1997  | 181                            | 8                | 79                 | 55                   | 39                |
| <b>Cattle/Calves (Farms w/200-499 Head)</b>   |                                |                  |                    |                      |                   |
| 1982  | 53                             | 0                | 7                  | 8                    | 38                |
| 1987  | 72                             | 0                | 4                  | 11                   | 57                |
| 1992  | 77                             | 3                | 3                  | 22                   | 49                |
| 1997  | 64                             | 0                | 4                  | 15                   | 45                |
| <b>Cattle and Calves (Farms w/500+ Head)</b>  |                                |                  |                    |                      |                   |
| 1982  | 33                             | 0                | 0                  | 2                    | 31                |
| 1987  | 19                             | 0                | 0                  | 3                    | 16                |
| 1992  | 25                             | 2                | 0                  | 2                    | 21                |
| 1997  | 25                             | 2                | 0                  | 2                    | 21                |
| <b>North Interior</b>                         |                                |                  |                    |                      |                   |
| <b>Cattle and Calves (Farms)</b>              |                                |                  |                    |                      |                   |
| 1982  | 1,205                          | 366              | 393                | 245                  | 201               |
| 1987  | 1,158                          | 293              | 408                | 248                  | 209               |
| 1992  | 1,101                          | 265              | 400                | 224                  | 212               |
| 1997  | 1,094                          | 287              | 401                | 220                  | 186               |
| <b>Cattle and Calves (Farms w/ 1-49 Head)</b> |                                |                  |                    |                      |                   |
| 1982  | 605                            | 338              | 231                | 34                   | 2                 |
| 1987  | 571                            | 267              | 251                | 45                   | 8                 |
| 1992  | 520                            | 244              | 224                | 43                   | 9                 |
| 1997  | 548                            | 250              | 239                | 50                   | 9                 |
| <b>Cattle/Calves (Farms w/50-199 Head)</b>    |                                |                  |                    |                      |                   |
| 1982  | 288                            | 23               | 134                | 100                  | 31                |
| 1987  | 277                            | 18               | 128                | 99                   | 32                |
| 1992  | 303                            | 14               | 148                | 103                  | 38                |
| 1997  | 282                            | 28               | 133                | 99                   | 22                |
| <b>Cattle/Calves (Farms w/200-499 Head)</b>   |                                |                  |                    |                      |                   |
| 1982  | 178                            | 3                | 26                 | 78                   | 71                |
| 1987  | 182                            | 8                | 26                 | 73                   | 75                |
| 1992  | 155                            | 7                | 23                 | 54                   | 71                |
| 1997  | 162                            | 8                | 27                 | 56                   | 71                |
| <b>Cattle and Calves (Farms w/500+ Head)</b>  |                                |                  |                    |                      |                   |
| 1982  | 134                            | 2                | 2                  | 33                   | 97                |
| 1987  | 128                            | 0                | 3                  | 31                   | 94                |

|   |       |       |     |     |     |
|---|-------|-------|-----|-----|-----|
| 1992  | 123   | 0     | 5   | 24  | 94  |
| 1997  | 102   | 1     | 2   | 15  | 84  |
| <b>North/South Sac. Valley/North Sierra</b>   |       |       |     |     |     |
| <b>Cattle and Calves (Farms)</b>              |       |       |     |     |     |
| 1982  | 2,356 | 1,323 | 632 | 228 | 173 |
| 1987  | 2,070 | 1,008 | 642 | 240 | 180 |
| 1992  | 1,938 | 863   | 630 | 254 | 191 |
| 1997  | 1,833 | 801   | 628 | 241 | 163 |
| <b>Cattle and Calves (Farms w/ 1-49 Head)</b> |       |       |     |     |     |
| 1982  | 1,665 | 1,260 | 364 | 34  | 7   |
| 1987  | 1,360 | 921   | 384 | 49  | 6   |
| 1992  | 1,190 | 785   | 361 | 40  | 4   |
| 1997  | 1,142 | 722   | 380 | 38  | 2   |
| <b>Cattle/Calves (Farms w/50-199 Head)</b>    |       |       |     |     |     |
| 1982  | 432   | 58    | 242 | 113 | 19  |
| 1987  | 457   | 73    | 228 | 124 | 32  |
| 1992  | 478   | 69    | 241 | 133 | 35  |
| 1997  | 437   | 67    | 221 | 127 | 22  |
| <b>Cattle/Calves (Farms w/200-499 Head)</b>   |       |       |     |     |     |
| 1982  | 145   | 5     | 20  | 62  | 58  |
| 1987  | 157   | 8     | 25  | 52  | 72  |
| 1992  | 170   | 7     | 24  | 67  | 72  |
| 1997  | 165   | 8     | 26  | 66  | 65  |
| <b>Cattle and Calves (Farms w/500+ Head)</b>  |       |       |     |     |     |
| 1982  | 114   | 0     | 6   | 19  | 89  |
| 1987  | 96    | 6     | 5   | 15  | 70  |
| 1992  | 100   | 2     | 4   | 14  | 80  |
| 1997  | 89    | 4     | 1   | 10  | 74  |
| <b>North Central/Central Sierra</b>           |       |       |     |     |     |
| <b>Cattle and Calves (Farms)</b>              |       |       |     |     |     |
| 1982  | 1,700 | 741   | 634 | 228 | 97  |
| 1987  | 1,613 | 649   | 609 | 257 | 98  |
| 1992  | 1,485 | 556   | 594 | 233 | 102 |
| 1997  | 1,369 | 495   | 542 | 219 | 113 |
| <b>Cattle and Calves (Farms w/ 1-49 Head)</b> |       |       |     |     |     |
| 1982  | 1,238 | 718   | 468 | 48  | 4   |
| 1987  | 1,157 | 631   | 480 | 43  | 3   |
| 1992  | 1,024 | 533   | 440 | 47  | 4   |
| 1997  | 910   | 473   | 395 | 39  | 3   |
| <b>Cattle/Calves (Farms w/50-199 Head)</b>    |       |       |     |     |     |
| 1982  | 325   | 21    | 163 | 127 | 14  |
| 1987  | 314   | 16    | 124 | 156 | 18  |
| 1992  | 319   | 14    | 143 | 146 | 16  |
| 1997  | 315   | 16    | 140 | 145 | 14  |
| <b>Cattle/Calves (Farms w/200-499 Head)</b>   |       |       |     |     |     |
| 1982  | 92    | 1     | 3   | 48  | 40  |
| 1987  | 89    | 1     | 3   | 51  | 34  |
| 1992  | 89    | 8     | 5   | 37  | 39  |
| 1997  | 93    | 4     | 7   | 27  | 55  |
| <b>Cattle and Calves (Farms w/500+ Head)</b>  |       |       |     |     |     |
| 1982  | 45    | 1     | 0   | 5   | 39  |
| 1987  | 53    | 1     | 2   | 7   | 43  |
| 1992  | 53    | 1     | 6   | 3   | 43  |
| 1997  | 51    | 2     | 0   | 8   | 41  |
| <b>North/South Bay</b>                        |       |       |     |     |     |
| <b>Cattle and Calves (Farms)</b>              |       |       |     |     |     |
| 1982  | 1,894 | 783   | 678 | 290 | 143 |
| 1987  | 1,696 | 568   | 710 | 281 | 137 |
| 1992  | 1,341 | 422   | 539 | 242 | 138 |
| 1997  | 1,232 | 356   | 502 | 233 | 141 |
| <b>Cattle and Calves (Farms w/ 1-49 Head)</b> |       |       |     |     |     |
| 1982  | 1,282 | 732   | 482 | 63  | 5   |
| 1987  | 1,127 | 526   | 510 | 81  | 10  |
| 1992  | 815   | 389   | 371 | 51  | 4   |
| 1997  | 712   | 322   | 345 | 42  | 3   |
| <b>Cattle/Calves (Farms w/50-199 Head)</b>    |       |       |     |     |     |
| 1982  | 413   | 44    | 181 | 156 | 32  |
| 1987  | 388   | 32    | 187 | 142 | 27  |
| 1992  | 377   | 30    | 156 | 149 | 42  |
| 1997  | 343   | 28    | 151 | 124 | 40  |
| <b>Cattle/Calves (Farms w/200-499 Head)</b>   |       |       |     |     |     |
| 1982  | 129   | 4     | 13  | 65  | 47  |
| 1987  | 115   | 6     | 11  | 50  | 48  |
| 1992  | 88    | 3     | 8   | 34  | 43  |
| 1997  | 119   | 6     | 4   | 57  | 52  |
| <b>Cattle and Calves (Farms w/500+ Head)</b>  |       |       |     |     |     |
| 1982  | 70    | 3     | 2   | 6   | 59  |
| 1987  | 66    | 4     | 2   | 8   | 52  |
| 1992  | 61    | 0     | 4   | 8   | 49  |
| 1997  | 58    | 0     | 2   | 10  | 46  |
| <b>Central/South Central Coast</b>            |       |       |     |     |     |

|   |       |       |     |     |     |
|---|-------|-------|-----|-----|-----|
| <b>Cattle and Calves (Farms)</b>              |       |       |     |     |     |
| 1982  | 1,364 | 374   | 404 | 319 | 267 |
| 1987  | 1,541 | 310   | 485 | 407 | 339 |
| 1992  | 1,351 | 296   | 426 | 339 | 290 |
| 1997  | 1,340 | 242   | 403 | 360 | 335 |
| <b>Cattle and Calves (Farms w/ 1-49 Head)</b> |       |       |     |     |     |
| 1982  | 688   | 335   | 276 | 70  | 7   |
| 1987  | 751   | 274   | 360 | 104 | 13  |
| 1992  | 707   | 266   | 333 | 94  | 14  |
| 1997  | 615   | 206   | 308 | 82  | 19  |
| <b>Cattle/Calves (Farms w/50-199 Head)</b>    |       |       |     |     |     |
| 1982  | 382   | 29    | 119 | 181 | 53  |
| 1987  | 470   | 28    | 118 | 238 | 86  |
| 1992  | 397   | 23    | 87  | 207 | 80  |
| 1997  | 424   | 30    | 80  | 237 | 77  |
| <b>Cattle/Calves (Farms w/200-499 Head)</b>   |       |       |     |     |     |
| 1982  | 157   | 7     | 7   | 63  | 80  |
| 1987  | 184   | 7     | 5   | 58  | 114 |
| 1992  | 145   | 4     | 6   | 36  | 99  |
| 1997  | 176   | 4     | 15  | 36  | 121 |
| <b>Cattle and Calves (Farms w/500+ Head)</b>  |       |       |     |     |     |
| 1982  | 137   | 3     | 2   | 5   | 127 |
| 1987  | 136   | 1     | 2   | 7   | 126 |
| 1992  | 102   | 3     | 0   | 2   | 97  |
| 1997  | 125   | 2     | 0   | 5   | 118 |
| <b>North/Central San Joaquin Valley</b>       |       |       |     |     |     |
| <b>Cattle and Calves (Farms)</b>              |       |       |     |     |     |
| 1982  | 2,915 | 1,972 | 567 | 192 | 184 |
| 1987  | 2,658 | 1,661 | 581 | 228 | 188 |
| 1992  | 2,490 | 1,497 | 587 | 233 | 173 |
| 1997  | 2,272 | 1,298 | 608 | 202 | 164 |
| <b>Cattle and Calves (Farms w/ 1-49 Head)</b> |       |       |     |     |     |
| 1982  | 2,165 | 1,822 | 311 | 31  | 1   |
| 1987  | 1,877 | 1,519 | 310 | 43  | 5   |
| 1992  | 1,706 | 1,344 | 320 | 37  | 5   |
| 1997  | 1,520 | 1,172 | 317 | 31  | 0   |
| <b>Cattle/Calves (Farms w/50-199 Head)</b>    |       |       |     |     |     |
| 1982  | 462   | 141   | 217 | 90  | 14  |
| 1987  | 484   | 119   | 236 | 108 | 21  |
| 1992  | 495   | 132   | 230 | 113 | 20  |
| 1997  | 452   | 108   | 224 | 103 | 17  |
| <b>Cattle/Calves (Farms w/200-499 Head)</b>   |       |       |     |     |     |
| 1982  | 127   | 5     | 30  | 50  | 42  |
| 1987  | 163   | 20    | 27  | 61  | 55  |
| 1992  | 152   | 18    | 26  | 66  | 42  |
| 1997  | 149   | 13    | 47  | 54  | 35  |
| <b>Cattle and Calves (Farms w/500+ Head)</b>  |       |       |     |     |     |
| 1982  | 161   | 4     | 9   | 21  | 127 |
| 1987  | 134   | 3     | 8   | 16  | 107 |
| 1992  | 137   | 3     | 11  | 17  | 106 |
| 1997  | 151   | 5     | 20  | 14  | 112 |
| <b>South San Joaquin Valley</b>               |       |       |     |     |     |
| <b>Cattle and Calves (Farms)</b>              |       |       |     |     |     |
| 1982  | 980   | 538   | 231 | 96  | 115 |
| 1987  | 1,001 | 511   | 242 | 120 | 128 |
| 1992  | 852   | 423   | 208 | 82  | 139 |
| 1997  | 842   | 366   | 222 | 119 | 135 |
| <b>Cattle and Calves (Farms w/ 1-49 Head)</b> |       |       |     |     |     |
| 1982  | 662   | 486   | 157 | 18  | 1   |
| 1987  | 667   | 456   | 174 | 35  | 2   |
| 1992  | 522   | 363   | 140 | 16  | 3   |
| 1997  | 504   | 320   | 155 | 20  | 9   |
| <b>Cattle/Calves (Farms w/50-199 Head)</b>    |       |       |     |     |     |
| 1982  | 170   | 37    | 64  | 57  | 12  |
| 1987  | 174   | 41    | 56  | 60  | 17  |
| 1992  | 163   | 39    | 54  | 42  | 28  |
| 1997  | 160   | 28    | 47  | 57  | 28  |
| <b>Cattle/Calves (Farms w/200-499 Head)</b>   |       |       |     |     |     |
| 1982  | 62    | 9     | 5   | 15  | 33  |
| 1987  | 69    | 7     | 6   | 17  | 39  |
| 1992  | 80    | 11    | 6   | 18  | 45  |
| 1997  | 78    | 2     | 8   | 27  | 41  |
| <b>Cattle and Calves (Farms w/500+ Head)</b>  |       |       |     |     |     |
| 1982  | 86    | 6     | 5   | 6   | 69  |
| 1987  | 91    | 7     | 6   | 8   | 70  |
| 1992  | 87    | 10    | 8   | 6   | 63  |
| 1997  | 100   | 16    | 12  | 15  | 57  |
| <b>Eastside</b>                               |       |       |     |     |     |
| <b>Cattle and Calves (Farms)</b>              |       |       |     |     |     |
| 1982  | 71    | 17    | 20  | 14  | 20  |
| 1987  | 89    | 23    | 22  | 23  | 21  |

|   |     |     |     |    |    |
|---|-----|-----|-----|----|----|
| 1992                                      | 68  | 17  | 13  | 20 | 18 |
| 1997                                      | 72  | 7   | 20  | 27 | 18 |
| Cattle and Calves (Farms w/ 1-49 Head)    |     |     |     |    |    |
| 1982                                      | 27  | 17  | 9   | 1  | 0  |
| 1987                                      | 38  | 21  | 12  | 4  | 1  |
| 1992                                      | 25  | 14  | 7   | 4  | 0  |
| 1997                                      | 19  | 5   | 9   | 4  | 1  |
| Cattle/Calves (Farms w/50-199 Head)       |     |     |     |    |    |
| 1982                                      | 13  | 0   | 8   | 3  | 2  |
| 1987                                      | 23  | 1   | 7   | 11 | 4  |
| 1992                                      | 15  | 1   | 4   | 6  | 4  |
| 1997                                      | 28  | 1   | 9   | 16 | 2  |
| Cattle/Calves (Farms w/200-499 Head)      |     |     |     |    |    |
| 1982                                      | 17  | 0   | 3   | 6  | 8  |
| 1987                                      | 13  | 0   | 2   | 6  | 5  |
| 1992                                      | 15  | 1   | 2   | 7  | 5  |
| 1997                                      | 10  | 0   | 2   | 5  | 3  |
| Cattle and Calves (Farms w/500+ Head)     |     |     |     |    |    |
| 1982                                      | 14  | 0   | 0   | 4  | 10 |
| 1987                                      | 15  | 1   | 1   | 2  | 11 |
| 1992                                      | 13  | 1   | 0   | 3  | 9  |
| 1997                                      | 15  | 1   | 0   | 2  | 12 |
| <b>South Coast/Mojave/Colorado Desert</b> |     |     |     |    |    |
| Cattle and Calves (Farms)                 |     |     |     |    |    |
| 1982                                      | 970 | 594 | 225 | 83 | 68 |
| 1987                                      | 790 | 402 | 243 | 78 | 67 |
| 1992                                      | 555 | 267 | 147 | 78 | 63 |
| 1997                                      | 469 | 211 | 140 | 63 | 55 |
| Cattle and Calves (Farms w/ 1-49 Head)    |     |     |     |    |    |
| 1982                                      | 727 | 521 | 167 | 31 | 8  |
| 1987                                      | 543 | 331 | 168 | 35 | 9  |
| 1992                                      | 360 | 220 | 100 | 31 | 9  |
| 1997                                      | 310 | 183 | 100 | 21 | 6  |
| Cattle/Calves (Farms w/50-199 Head)       |     |     |     |    |    |
| 1982                                      | 157 | 49  | 48  | 38 | 22 |
| 1987                                      | 147 | 39  | 54  | 28 | 26 |
| 1992                                      | 98  | 27  | 22  | 31 | 18 |
| 1997                                      | 80  | 8   | 26  | 29 | 17 |
| Cattle/Calves (Farms w/200-499 Head)      |     |     |     |    |    |
| 1982                                      | 50  | 14  | 3   | 12 | 21 |
| 1987                                      | 51  | 14  | 9   | 8  | 20 |
| 1992                                      | 56  | 8   | 14  | 10 | 24 |
| 1997                                      | 45  | 7   | 8   | 9  | 21 |
| Cattle and Calves (Farms w/500+ Head)     |     |     |     |    |    |
| 1982                                      | 36  | 10  | 7   | 2  | 17 |
| 1987                                      | 49  | 18  | 12  | 7  | 12 |
| 1992                                      | 41  | 12  | 11  | 6  | 12 |
| 1997                                      | 34  | 13  | 6   | 4  | 11 |

=Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

**Appendix H: Number of beef cattle farms excluding feedlots using forage resources by farms size, statewide and regional, 1982 and 1997**

| Land in farms according to use                     | All farms with beef cattle |       | Beef cattle farms 1-49 acres |       | Beef cattle farms 50-499 acres |       | Beef cattle farms 500-1999 acres |       | Beef cattle farms 2000+ acres |       |
|--|----------------------------|-------|------------------------------|-------|--------------------------------|-------|----------------------------------|-------|-------------------------------|-------|
|  | 1982                       | 1997  | 1982                         | 1997  | 1982                           | 1997  | 1982                             | 1997  | 1982                          | 1997  |
| <b>California</b>                                  |                            |       |                              |       |                                |       |                                  |       |                               |       |
| Farms Using Cropland for Grazing                   | 6,285                      | 4,680 | 3,240                        | 1,969 | 2,063                          | 1,727 | 677                              | 618   | 305                           | 366   |
| Farms Using Woodland Pastured                      | 1,272                      | 895   | 243                          | 117   | 523                            | 366   | 290                              | 232   | 216                           | 180   |
| Farms Using Woodland Not pastured                  | 889                        | 613   | 174                          | 104   | 418                            | 282   | 187                              | 127   | 110                           | 100   |
| Farms Using Pasture/Range other than Crop/Woodland | 6,251                      | 5,980 | 1,770                        | 1,304 | 1,823                          | 1,916 | 1,332                            | 1,400 | 1,326                         | 1,360 |
| <b>North Coast</b>                                 |                            |       |                              |       |                                |       |                                  |       |                               |       |
| Farms Using Cropland for Grazing                   | 381                        | 278   | 139                          | 81    | 179                            | 134   | 36                               | 39    | 27                            | 24    |
| Farms Using Woodland Pastured                      | 251                        | 196   | 30                           | 14    | 102                            | 81    | 60                               | 50    | 59                            | 51    |
| Farms Using Woodland Not pastured                  | 210                        | 159   | 23                           | 16    | 103                            | 68    | 46                               | 41    | 38                            | 34    |
| Farms Using Pasture/Range other than Crop/Woodland | 340                        | 318   | 54                           | 30    | 110                            | 111   | 75                               | 75    | 101                           | 102   |
| <b>North Interior</b>                              |                            |       |                              |       |                                |       |                                  |       |                               |       |
| Farms Using Cropland for Grazing                   | 655                        | 597   | 198                          | 150   | 247                            | 234   | 134                              | 115   | 76                            | 98    |
| Farms Using Woodland Pastured                      | 216                        | 165   | 26                           | 10    | 75                             | 50    | 59                               | 47    | 56                            | 58    |
| Farms Using Woodland Not pastured                  | 155                        | 133   | 16                           | 13    | 64                             | 58    | 50                               | 31    | 25                            | 31    |
| Farms Using Pasture/Range other than Crop/Woodland | 626                        | 592   | 84                           | 82    | 168                            | 169   | 179                              | 171   | 195                           | 170   |
| <b>North/South Sacramento Valley/North Sierra</b>  |                            |       |                              |       |                                |       |                                  |       |                               |       |
| Farms Using Cropland for Grazing                   | 1,201                      | 903   | 694                          | 417   | 356                            | 335   | 106                              | 95    | 45                            | 56    |
| Farms Using Woodland Pastured                      | 115                        | 92    | 25                           | 25    | 44                             | 32    | 26                               | 19    | 20                            | 16    |
| Farms Using Woodland Not pastured                  | 71                         | 66    | 15                           | 12    | 34                             | 39    | 12                               | 11    | 10                            | 4     |
| Farms Using Pasture/Range other than Crop/Woodland | 914                        | 879   | 316                          | 239   | 261                            | 299   | 174                              | 180   | 163                           | 161   |
| <b>North Central/Central Sierra</b>                |                            |       |                              |       |                                |       |                                  |       |                               |       |
| Farms Using Cropland for Grazing                   | 724                        | 511   | 346                          | 204   | 295                            | 223   | 66                               | 60    | 17                            | 24    |
| Farms Using Woodland Pastured                      | 248                        | 165   | 69                           | 38    | 115                            | 83    | 46                               | 33    | 18                            | 11    |
| Farms Using Woodland Not pastured                  | 128                        | 75    | 33                           | 24    | 82                             | 35    | 10                               | 10    | 3                             | 6     |
| Farms Using Pasture/Range other than Crop/Woodland | 847                        | 845   | 280                          | 235   | 301                            | 321   | 167                              | 178   | 99                            | 111   |
| <b>North/South Bay</b>                             |                            |       |                              |       |                                |       |                                  |       |                               |       |
| Farms Using Cropland for Grazing                   | 732                        | 445   | 303                          | 125   | 312                            | 216   | 99                               | 80    | 18                            | 24    |
| Farms Using Woodland Pastured                      | 180                        | 97    | 24                           | 7     | 79                             | 37    | 62                               | 38    | 15                            | 15    |
| Farms Using Woodland Not pastured                  | 162                        | 95    | 36                           | 15    | 72                             | 43    | 41                               | 23    | 13                            | 14    |
| Farms Using Pasture/Range other than Crop/Woodland | 894                        | 730   | 215                          | 120   | 339                            | 296   | 203                              | 179   | 137                           | 135   |
| <b>Central/South Central Coast</b>                 |                            |       |                              |       |                                |       |                                  |       |                               |       |
| Farms Using Cropland for Grazing                   | 485                        | 432   | 141                          | 81    | 192                            | 175   | 95                               | 105   | 57                            | 71    |
| Farms Using Woodland Pastured                      | 113                        | 88    | 17                           | 8     | 50                             | 34    | 18                               | 28    | 28                            | 18    |
| Farms Using Woodland Not pastured                  | 72                         | 33    | 19                           | 5     | 31                             | 13    | 15                               | 8     | 7                             | 7     |
| Farms Using Pasture/Range other than Crop/Woodland | 799                        | 928   | 96                           | 81    | 195                            | 223   | 254                              | 303   | 254                           | 321   |
| <b>North/Central San Joaquin Valley</b>            |                            |       |                              |       |                                |       |                                  |       |                               |       |
| Farms Using Cropland for Grazing                   | 1,410                      | 1,079 | 990                          | 702   | 296                            | 269   | 80                               | 56    | 44                            | 52    |
| Farms Using Woodland Pastured                      | 68                         | 39    | 24                           | 9     | 28                             | 18    | 9                                | 6     | 7                             | 6     |
| Farms Using Woodland Not pastured                  | 28                         | 20    | 11                           | 6     | 10                             | 12    | 6                                | 1     | 1                             | 1     |
| Farms Using Pasture/Range other than Crop/Woodland | 1,022                      | 966   | 489                          | 331   | 219                            | 318   | 134                              | 159   | 180                           | 158   |
| <b>South San Joaquin Valley</b>                    |                            |       |                              |       |                                |       |                                  |       |                               |       |
| Farms Using Cropland for Grazing                   | 339                        | 266   | 246                          | 156   | 65                             | 73    | 20                               | 30    | 8                             | 7     |
| Farms Using Woodland Pastured                      | 48                         | 25    | 16                           | 6     | 18                             | 14    | 3                                | 3     | 11                            | 2     |
| Farms Using Woodland Not pastured                  | 24                         | 11    | 7                            | 5     | 8                              | 4     | 4                                | 1     | 5                             | 1     |
| Farms Using Pasture/Range other than Crop/Woodland | 420                        | 447   | 113                          | 110   | 118                            | 111   | 79                               | 94    | 110                           | 132   |
| <b>Eastside</b>                                    |                            |       |                              |       |                                |       |                                  |       |                               |       |
| Farms Using Cropland for Grazing                   | 23                         | 37    | 3                            | 2     | 8                              | 14    | 5                                | 14    | 7                             | 7     |
| Farms Using Woodland Pastured                      | 0                          | 2     | 0                            | 0     | 0                              | 0     | 0                                | 1     | 0                             | 1     |
| Farms Using Woodland Not pastured                  | 0                          | 0     | 0                            | 0     | 0                              | 0     | 0                                | 0     | 0                             | 0     |
| Farms Using Pasture/Range other than Crop/Woodland | 53                         | 48    | 7                            | 5     | 11                             | 6     | 14                               | 20    | 21                            | 17    |
| <b>South Coast/Mojave/Colorado Desert</b>          |                            |       |                              |       |                                |       |                                  |       |                               |       |
| Farms Using Cropland for Grazing                   | 335                        | 132   | 180                          | 51    | 113                            | 54    | 36                               | 24    | 6                             | 3     |
| Farms Using Woodland Pastured                      | 33                         | 26    | 12                           | 0     | 12                             | 17    | 7                                | 7     | 2                             | 2     |
| Farms Using Woodland Not pastured                  | 39                         | 21    | 14                           | 8     | 14                             | 10    | 3                                | 1     | 8                             | 2     |
| Farms Using Pasture/Range other than Crop/Woodland | 336                        | 227   | 116                          | 71    | 101                            | 62    | 53                               | 41    | 66                            | 53    |

=Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

**Appendix I: Acreage of beef cattle farms excluding feedlots, statewide and regional, 1987 and 1997**

| Region                                      | All farms with beef cattle |            | Beef cattle farms 1-49 acres |        | Beef cattle farms 50-499 acres |         | Beef cattle farms 500-1999 acres |           | Beef cattle farms 2000+ acres |            |
|---|----------------------------|------------|------------------------------|--------|--------------------------------|---------|----------------------------------|-----------|-------------------------------|------------|
|   | 1987                       | 1997       | 1987                         | 1997   | 1987                           | 1997    | 1987                             | 1997      | 1987                          | 1997       |
| California                                  | 15,737,186                 | 13,744,272 | 95,881                       | 75,711 | 809,670                        | 713,527 | 2,052,939                        | 1,856,193 | 12,778,696                    | 11,098,841 |
| North Coast                                 | 1,075,449                  | 896,542    | 4,643                        | 2,915  | 56,529                         | 46,976  | 110,420                          | 123,645   | 903,857                       | 723,006    |
| North Interior                              | 1,915,646                  | 1,560,123  | 5,609                        | 5,977  | 87,994                         | 81,971  | 265,906                          | 230,889   | 1,556,137                     | 1,241,286  |
| North/South Sacramento Valley/North Sierra* | 1,954,956                  | 1,734,879  | 18,772                       | 15,827 | 112,462                        | 115,224 | 251,826                          | 253,634   | 1,571,896                     | 1,350,194  |
| North Central/Central Sierra                | 979,025                    | 933,048    | 13,882                       | 10,505 | 112,516                        | 102,875 | 257,553                          | 219,745   | 595,074                       | 599,923    |
| North/South Bay                             | 1,224,870                  | 1,104,194  | 9,798                        | 5,697  | 137,540                        | 94,525  | 288,485                          | 240,024   | 789,047                       | 763,948    |
| Central/South Central Coast                 | 3,140,557                  | 3,004,825  | 5,867                        | 4,765  | 101,149                        | 89,135  | 420,017                          | 364,189   | 2,613,524                     | 2,546,736  |
| North/Central San Joaquin Valley            | 1,754,810                  | 1,481,615  | 25,312                       | 21,415 | 106,363                        | 110,655 | 235,201                          | 206,714   | 1,387,934                     | 1,142,831  |
| South San Joaquin Valley                    | 1,475,282                  | 1,466,167  | 6,506                        | 5,398  | 47,125                         | 42,532  | 123,657                          | 131,111   | 1,297,994                     | 1,287,126  |
| Eastside*                                   | 259,541                    | 241,119    | 403                          | 167    | 5,100                          | 3,803   | 21,473                           | 24,349    | 232,565                       | 212,800    |
| South Coast/Mojave/Colorado Desert          | 1,957,050                  | 1,321,760  | 5,089                        | 3,045  | 42,892                         | 25,831  | 78,401                           | 61,893    | 1,830,668                     | 1,230,991  |

\*1992 number used when 1997 numbers were withheld

=Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

**Appendix J: Cattle and calf inventory on beef cattle farms excluding feedlots, statewide and regional, 1982 and 1997**

| Region                                     | All farms with beef cattle |           | Beef cattle farms 1-49 acres |         | Beef cattle farms 50-499 acres |         | Beef cattle farms 500-1999 acres |         | Beef cattle farms 2000+ acres |           |
|--|----------------------------|-----------|------------------------------|---------|--------------------------------|---------|----------------------------------|---------|-------------------------------|-----------|
|  | 1982                       | 1997      | 1982                         | 1997    | 1982                           | 1997    | 1982                             | 1997    | 1982                          | 1997      |
| California                                 | 1,911,197                  | 1,871,464 | 161,198                      | 185,080 | 245,941                        | 326,151 | 309,970                          | 329,064 | 1,194,088                     | 1,031,169 |
| North Coast                                | 73,757                     | 68,748    | 3,947                        | N/A     | 12,796                         | N/A     | 10,790                           | 12,969  | 46,224                        | 35,705    |
| North Interior                             | 252,099                    | 232,368   | 8,624                        | 8,951   | 27,104                         | 28,544  | 58,382                           | 42,518  | 157,989                       | 152,355   |
| North/South Sacramento Valley/North Sierra | 278,478                    | 226,373   | 23,433                       | 19,777  | 40,022                         | 36,570  | 46,824                           | 44,543  | 168,199                       | 125,483   |
| North Central/Central Sierra               | 131,912                    | 131,992   | 11,399                       | 10,250  | 23,664                         | 21,604  | 31,637                           | 31,775  | 65,212                        | 68,363    |
| North/South Bay                            | 184,598                    | 145,565   | 15,269                       | 8,108   | 31,572                         | 22,964  | 40,872                           | 39,370  | 96,885                        | 75,123    |
| Central/South Central Coast                | 308,667                    | 294,058   | 10,837                       | 7,440   | 26,266                         | 17,028  | 43,740                           | 45,234  | 227,824                       | 224,356   |
| North/Central San Joaquin Valley           | 376,576                    | 347,148   | 41,536                       | 39,007  | 44,641                         | 60,559  | 41,429                           | 58,622  | 248,970                       | 188,960   |
| South San Joaquin Valley                   | 180,589                    | 253,532   | 17,344                       | 24,889  | 15,338                         | 79,604  | 20,146                           | 36,757  | 127,761                       | 112,282   |
| Eastside                                   | 25,275                     | 27,506    | 288                          | N/A     | 1,609                          | N/A     | 5,212                            | 5,394   | 18,166                        | 19,395    |
| South Coast/Mojave/Colorado Desert         | 99,246                     | 144,174   | 28,521                       | N/A     | 22,929                         | N/A     | 10,938                           | 11,882  | 36,858                        | 29,147    |

=Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

**Appendix K: Real value of cattle sold from beef cattle farms excluding feedlots (1997 dollars) (thousands of dollars), statewide and regional, 1982 and 1997**

| Region                                     | All farms with beef cattle |         | Beef cattle farms 1-49 acres |        | Beef cattle farms 50-499 acres |         | Beef cattle farms 500-1999 acres |        | Beef cattle farms 2000+ acres |         |
|--|----------------------------|---------|------------------------------|--------|--------------------------------|---------|----------------------------------|--------|-------------------------------|---------|
|  | 1982                       | 1997    | 1982                         | 1997   | 1982                           | 1997    | 1982                             | 1997   | 1982                          | 1997    |
| California                                 | 814,179                    | 629,725 | 89,867                       | 94,213 | 111,670                        | 129,538 | 118,719                          | 93,343 | 493,926                       | 312,630 |
| North Coast                                | 23,063                     | 19,744  | 1,540                        | 1,365  | 5,317                          | 3,489   | 3,352                            | 3,559  | 12,854                        | 11,331  |
| North Interior*                            | 78,604                     | 53,882  | 2,804                        | 2,226  | 9,607                          | 6,635   | 15,875                           | 10,548 | 50,317                        | 34,473  |
| North/South Sacramento Valley/North Sierra | 127,206                    | 75,690  | 8,782                        | 5,467  | 17,023                         | 9,087   | 20,778                           | 11,087 | 80,626                        | 50,049  |
| North Central/Central Sierra               | 39,396                     | 34,626  | 2,809                        | 2,744  | 6,242                          | 4,476   | 7,703                            | 7,132  | 22,642                        | 20,273  |
| North/South Bay                            | 68,639                     | 42,489  | 9,741                        | 2,270  | 10,316                         | 7,987   | 12,533                           | 10,755 | 36,051                        | 21,477  |
| Central/South Central Coast                | 121,723                    | 73,464  | 4,432                        | 1,899  | 12,378                         | 3,734   | 12,645                           | 10,093 | 92,267                        | 57,737  |
| North/Central San Joaquin Valley           | 177,015                    | 138,830 | 22,025                       | 17,478 | 24,755                         | 23,804  | 15,880                           | 20,249 | 114,354                       | 77,300  |
| South San Joaquin Valley                   | 102,286                    | 109,520 | 11,154                       | 10,251 | 16,532                         | 56,275  | 22,170                           | 12,526 | 52,431                        | 30,467  |
| Eastside*                                  | 10,373                     | 5,729   | 63                           | N/A    | 497                            | N/A     | 1,987                            | 1,789  | 7,826                         | 3,328   |
| South Coast/Mojave/Colorado Desert         | 62,453                     | 75,043  | 26,353                       | 48,426 | 8,409                          | 14,346  | 5,249                            | 4,323  | 22,442                        | 7,949   |

\*1992 numbers used when 1997 numbers were withheld

=Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

**Appendix L: Number of cattle sold from beef cattle farms excluding feedlots, statewide and regional, 1982 and 1997**

| Region                                     | All farms with beef cattle |           | Beef cattle farms 1-49 acres |         | Beef cattle farms 50-499 acres |         | Beef cattle farms 500-1999 acres |         | Beef cattle farms 2000+ acres |         |
|--|----------------------------|-----------|------------------------------|---------|--------------------------------|---------|----------------------------------|---------|-------------------------------|---------|
|  | 1982                       | 1997      | 1982                         | 1997    | 1982                           | 1997    | 1982                             | 1997    | 1982                          | 1997    |
| California                                 | 1,250,327                  | 1,402,826 | 155,154                      | 253,509 | 180,678                        | 316,982 | 180,114                          | 206,595 | 734,381                       | 625,740 |
| North Coast                                | 46,758                     | 43,067    | 2,728                        | N/A     | 9,934                          | N/A     | 6,834                            | 9,737   | 27,262                        | 19,238  |
| North Interior                             | 134,857                    | 117,342   | 5,083                        | 5,623   | 16,502                         | 14,642  | 28,389                           | 24,165  | 84,883                        | 72,912  |
| North/South Sacramento Valley/North Sierra | 190,939                    | 153,199   | 16,295                       | 12,196  | 26,127                         | 20,047  | 32,372                           | 25,935  | 116,145                       | 95,021  |
| North Central/Central Sierra               | 64,709                     | 72,546    | 5,329                        | 6,777   | 11,208                         | 11,086  | 13,715                           | 15,437  | 34,457                        | 39,246  |
| North/South Bay                            | 110,004                    | 86,224    | 16,678                       | 5,097   | 18,193                         | 15,914  | 20,684                           | 24,986  | 54,449                        | 40,227  |
| Central/South Central Coast                | 184,368                    | 164,026   | 6,492                        | 4,473   | 21,757                         | 8,625   | 21,531                           | 23,947  | 134,588                       | 126,981 |
| North/Central San Joaquin Valley           | 256,254                    | 279,167   | 37,415                       | 49,983  | 29,384                         | 42,643  | 23,259                           | 47,956  | 166,196                       | 138,585 |
| South San Joaquin Valley                   | 139,137                    | 271,033   | 23,086                       | 23,330  | 18,347                         | 163,730 | 21,538                           | 21,285  | 76,166                        | 62,688  |
| Eastside                                   | 19,110                     | 15,184    | 116                          | N/A     | 1,066                          | N/A     | 3,989                            | 3,284   | 13,939                        | 10,439  |
| South Coast/Mojave/Colorado Desert         | 104,191                    | 201,038   | 41,932                       | 137,779 | 28,160                         | 32,993  | 7,803                            | 9,863   | 26,296                        | 20,403  |

 = Forest and rangeland farms  
 Source: National Agricultural Statistics Service, 2001a

**Appendix M: Farm production expenses (thousands of dollars), statewide and regional, 1992 and 1997**

| Region and production expense         | All farms  |            | All farms w/cattle, sheep and goats |           | Beef cattle farms excluding feedlots |         |                   |         | Sheep and goat farms and feedlots |         |
|---------------------------------------|------------|------------|-------------------------------------|-----------|--------------------------------------|---------|-------------------|---------|-----------------------------------|---------|
|                                       | 1982       | 1997       | 1982                                | 1997      | All farms                            |         | Farms 2000+ acres |         | 1982                              | 1997    |
| <b>California</b>                     |            |            |                                     |           |                                      |         |                   |         |                                   |         |
| Livestock & Poultry Purchase          | 935,152    | 759,223    | 727,036                             | 582,453   | 226,867                              | 170,403 | 113,956           | 81,231  | 341,457                           | 247,601 |
| Feed for Livestock and Poultry        | 2,108,719  | 2,588,982  | 1,488,260                           | 1,800,022 | 111,907                              | 106,520 | 44,504            | 36,867  | 231,039                           | 235,394 |
| All Other Production Expenses         | 274,495    | 526,323    | 21,797                              | 33,361    | 2,274                                | 2,183   | 1,017             | 1,171   | 956                               | 744     |
| Hired Farm Labor                      | 568,772    | 746,325    | 53,789                              | 66,195    | 6,247                                | 6,533   | 2,868             | 3,007   | 2,096                             | 1,437   |
| Interest Paid                         | 694,549    | 957,006    | 49,339                              | 57,888    | 4,208                                | 2,835   | 1,880             | 1,711   | 2,641                             | 821     |
| Repair and Maintenance                | 414,984    | 488,226    | 81,624                              | 89,004    | 22,118                               | 22,321  | 9,856             | 9,748   | 8,346                             | 7,942   |
| Cash Rent                             | 500,264    | 526,592    | 116,505                             | 119,240   | 16,652                               | 15,140  | 7,260             | 5,927   | 5,678                             | 5,989   |
| Property Taxes Paid                   | 2,922,390  | 3,392,577  | 435,765                             | 478,504   | 45,441                               | 42,594  | 27,070            | 25,040  | 33,411                            | 31,045  |
| Petroleum Products                    | 967,377    | 1,386,159  | 59,140                              | 71,318    | 4,945                                | 6,221   | 3,008             | 3,873   | 2,939                             | 3,779   |
| Electricity                           | 630,574    | 777,097    | 152,120                             | 174,692   | 30,375                               | 32,397  | 12,508            | 13,134  | 13,685                            | 15,728  |
| Custom Work                           | 448,923    | 595,872    | 79,526                              | 91,762    | 9,084                                | 9,224   | 4,653             | 4,443   | 4,162                             | 2,646   |
| Seeds, Plants and Trees               | 738,910    | 958,431    | 197,825                             | 218,750   | 35,944                               | 35,609  | 20,036            | 19,085  | 18,593                            | 13,007  |
| Contract Labor                        | 492,662    | 554,077    | 104,343                             | 106,681   | 30,629                               | 31,037  | 21,723            | 22,296  | 5,624                             | 4,433   |
| Commercial Fertilizer                 | 291,385    | 360,348    | 69,286                              | 76,770    | 27,250                               | 28,834  | 9,542             | 10,632  | 7,847                             | 7,525   |
| Agricultural Chemicals                | 1,815,826  | 2,200,014  | 395,494                             | 443,934   | 69,118                               | 69,105  | 32,729            | 34,534  | 39,222                            | 35,053  |
| Total production expenses             | 13,804,982 | 16,817,252 | 4,031,849                           | 4,410,574 | 643,059                              | 580,956 | 312,610           | 272,699 | 717,696                           | 613,144 |
| <b>North Coast</b>                    |            |            |                                     |           |                                      |         |                   |         |                                   |         |
| Livestock & Poultry Purchase          | 7,507      | 7,980      | 6,637                               | 6,645     | 3,813                                | 5,215   | 2,191             | 1,508   | 429                               | N/A     |
| Feed for Livestock and Poultry        | 14,785     | 21,443     | 14,464                              | 20,980    | 1,990                                | 2,619   | 996               | 722     | N/A                               | N/A     |
| All Other Production Expenses         | 1,038      | N/A        | 227                                 | N/A       | 21                                   | N/A     | 4                 | N/A     | 6                                 | N/A     |
| Hired Farm Labor                      | 2,271      | 2,376      | 794                                 | 948       | 114                                  | 120     | N/A               | 63      | 26                                | 4       |
| Interest Paid                         | 3,549      | 3,677      | 613                                 | 750       | 37                                   | 48      | N/A               | 16      | N/A                               | 8       |
| Repair and Maintenance                | 3,565      | 4,577      | 2,335                               | 2,439     | 1,061                                | 1,187   | 492               | 526     | 195                               | 135     |
| Cash Rent                             | 3,493      | 4,610      | 2,326                               | 2,650     | 341                                  | 523     | 147               | 120     | 56                                | 76      |
| Property Taxes Paid                   | 27,080     | 37,490     | 8,385                               | 10,054    | 1,130                                | 1,269   | 856               | 569     | 262                               | 262     |
| Petroleum Products                    | 3,085      | 4,110      | 877                                 | 925       | 219                                  | 206     | 156               | N/A     | N/A                               | 6       |
| Electricity                           | 8,331      | 9,085      | 5,211                               | 4,856     | 1,982                                | 1,712   | 594               | 561     | 343                               | 235     |
| Custom Work                           | 1,520      | N/A        | 802                                 | N/A       | 283                                  | N/A     | 175               | N/A     | 183                               | N/A     |
| Seeds, Plants and Trees               | 8,341      | 8,675      | 4,077                               | 3,797     | 1,346                                | 1,116   | 687               | 322     | 301                               | 327     |
| Contract Labor                        | 3,624      | 6,567      | 3,036                               | 3,987     | 868                                  | 1,060   | 612               | 543     | 143                               | N/A     |
| Commercial Fertilizer                 | 4,529      | 5,421      | 2,710                               | 2,544     | 1,464                                | 1,326   | 512               | 465     | 190                               | 281     |
| Agricultural Chemicals                | 19,392     | 19,661     | 7,847                               | 8,144     | 2,163                                | 2,821   | 1,249             | 1,113   | 291                               | 190     |
| Total production expenses             | 112,110    | N/A        | 60,341                              | N/A       | 16,832                               | N/A     | N/A               | N/A     | N/A                               | N/A     |
| <b>North Interior</b>                 |            |            |                                     |           |                                      |         |                   |         |                                   |         |
| Livestock & Poultry Purchase          | 17,863     | 7,961      | 14,837                              | 7,677     | 15,278                               | 6,381   | 10,351            | 4,023   | N/A                               | N/A     |
| Feed for Livestock and Poultry        | 15,189     | 10,854     | 13,881                              | 10,542    | 10,101                               | 6,972   | 6,454             | 3,459   | 1,204                             | 1,117   |
| All Other Production Expenses         | 2,879      | 4,313      | 714                                 | 1,086     | 395                                  | 492     | 189               | 297     | 27                                | N/A     |
| Hired Farm Labor                      | 7,050      | 9,778      | 2,321                               | 4,436     | 1,212                                | 1,973   | 640               | 938     | 34                                | N/A     |
| Interest Paid                         | 4,860      | 7,409      | 1,243                               | 2,519     | 539                                  | 472     | N/A               | 355     | N/A                               | N/A     |
| Repair and Maintenance                | 8,432      | 8,304      | 4,879                               | 4,836     | 3,153                                | 3,306   | 1,680             | 1,911   | 414                               | 176     |
| Cash Rent                             | 7,599      | 7,314      | 4,696                               | 4,507     | 3,287                                | 2,084   | 1,628             | 962     | 183                               | N/A     |
| Property Taxes Paid                   | 24,532     | 26,276     | 9,389                               | 13,583    | 6,370                                | 5,251   | 4,913             | 3,969   | 573                               | N/A     |
| Petroleum Products                    | 2,591      | 4,189      | 1,367                               | 1,035     | 626                                  | 688     | 459               | 540     | N/A                               | N/A     |
| Electricity                           | 9,399      | 11,721     | 5,658                               | 6,524     | 3,658                                | 4,054   | 2,074             | 2,127   | 510                               | N/A     |
| Custom Work                           | 5,959      | 5,219      | 1,956                               | 2,620     | 1,307                                | 1,495   | 884               | 966     | N/A                               | N/A     |
| Seeds, Plants and Trees               | 9,658      | 11,884     | 6,374                               | 7,171     | 4,213                                | 4,676   | 2,828             | 2,843   | 527                               | N/A     |
| Contract Labor                        | 7,045      | 8,609      | 3,537                               | 4,011     | 2,811                                | 2,582   | 1,510             | 1,823   | N/A                               | N/A     |
| Commercial Fertilizer                 | 6,061      | 7,545      | 4,090                               | 4,879     | 3,104                                | 3,513   | 1,562             | 1,718   | 376                               | N/A     |
| Agricultural Chemicals                | 21,815     | 20,864     | 12,089                              | 13,017    | 8,684                                | 8,996   | 5,238             | 5,558   | 1,019                             | 430     |
| Total production expenses             | 150,932    | 152,240    | 87,031                              | 88,443    | 64,738                               | 52,935  | N/A               | 31,489  | N/A                               | N/A     |
| <b>Sacramento Valley/North Sierra</b> |            |            |                                     |           |                                      |         |                   |         |                                   |         |
| Livestock & Poultry Purchase          | 52,062     | N/A        | 47,123                              | N/A       | 28,186                               | N/A     | 18,126            | N/A     | 10,637                            | N/A     |

|   |           |           |         |         |        |        |        |        |         |         |
|---|-----------|-----------|---------|---------|--------|--------|--------|--------|---------|---------|
| Feed for Livestock and Poultry              | 76,983    | 84,787    | 63,775  | 58,976  | 14,473 | 9,278  | 7,719  | 5,247  | 13,224  | 3,713   |
| All Other Production Expenses               | N/A       | 60,559    | N/A     | 4,073   | N/A    | 346    | N/A    | 259    | N/A     | 174     |
| Hired Farm Labor                            | 84,286    | 120,434   | 6,604   | 8,154   | 1,357  | 810    | 593    | 369    | 546     | 423     |
| Interest Paid                               | 90,421    | 122,186   | 5,358   | 6,207   | 584    | 405    | 230    | 243    | 711     | 313     |
| Repair and Maintenance                      | 54,561    | 68,616    | 8,839   | 9,343   | 3,378  | 3,247  | 1,430  | 1,618  | 1,253   | 784     |
| Cash Rent                                   | 51,472    | 54,267    | 10,309  | 8,646   | 3,241  | 2,204  | 1,310  | 1,085  | 1,216   | 475     |
| Property Taxes Paid                         | N/A       | 310,481   | N/A     | 36,109  | N/A    | 5,179  | N/A    | 4,391  | N/A     | 2,501   |
| Petroleum Products                          | 58,404    | 87,646    | 3,613   | 5,479   | 889    | 1,226  | 609    | N/A    | 243     | 148     |
| Electricity                                 | 78,993    | 100,364   | 13,770  | 14,595  | 4,976  | 4,208  | 1,853  | 1,881  | 2,308   | 1,082   |
| Custom Work                                 | 63,628    | 84,669    | 9,074   | 7,700   | 2,450  | 1,439  | 1,202  | 1,010  | 394     | 170     |
| Seeds, Plants and Trees                     | 77,997    | 101,573   | 15,516  | 14,634  | 6,085  | 5,409  | 3,034  | 3,240  | 2,071   | 890     |
| Contract Labor                              | 57,137    | N/A       | 10,333  | N/A     | 4,876  | N/A    | 3,519  | N/A    | 990     | N/A     |
| Commercial Fertilizer                       | 35,012    | 44,422    | 7,592   | 7,586   | 3,588  | 3,564  | 1,057  | 918    | 1,243   | 763     |
| Agricultural Chemicals                      | 156,444   | 186,082   | 27,880  | 29,763  | 11,059 | 8,735  | 5,481  | 5,324  | 3,472   | 2,424   |
| Total production expenses                   | N/A       | N/A       | N/A     | N/A     | N/A    | N/A    | N/A    | N/A    | N/A     | N/A     |
| <b>North Central and Central Sierra</b>     |           |           |         |         |        |        |        |        |         |         |
| Livestock & Poultry Purchase                | 17,636    | 9,956     | 15,431  | 8,594   | 13,230 | 7,239  | N/A    | N/A    | N/A     | N/A     |
| Feed for Livestock and Poultry              | 23,087    | 22,531    | 19,494  | 13,871  | 5,854  | 6,295  | 3,026  | 2,762  | N/A     | N/A     |
| All Other Production Expenses               | N/A       | 2,290     | N/A     | 675     | N/A    | 98     | N/A    | N/A    | N/A     | N/A     |
| Hired Farm Labor                            | N/A       | 2,533     | N/A     | 841     | N/A    | 398    | N/A    | N/A    | N/A     | N/A     |
| Interest Paid                               | 2,041     | 2,938     | 462     | 810     | 229    | 172    | 76     | N/A    | N/A     | N/A     |
| Repair and Maintenance                      | 3,639     | 3,888     | 2,319   | 2,199   | 1,619  | 1,690  | 593    | 512    | 467     | N/A     |
| Cash Rent                                   | 3,304     | 2,693     | 1,650   | 1,343   | 1,037  | 926    | 353    | 224    | 387     | N/A     |
| Property Taxes Paid                         | 9,750     | 12,886    | 4,067   | 4,375   | 1,796  | 1,758  | 1,373  | 1,174  | 939     | N/A     |
| Petroleum Products                          | 1,947     | 2,398     | 625     | 993     | 136    | 379    | 57     | 292    | N/A     | N/A     |
| Electricity                                 | 5,448     | 6,178     | 3,185   | 3,119   | 2,111  | 2,200  | 779    | 521    | 727     | N/A     |
| Custom Work                                 | 1,555     | 2,147     | 454     | 1,250   | 319    | N/A    | 151    | N/A    | N/A     | N/A     |
| Seeds, Plants and Trees                     | 7,027     | 5,543     | 4,105   | 3,345   | 2,490  | 2,758  | N/A    | N/A    | N/A     | N/A     |
| Contract Labor                              | 3,829     | 4,726     | 2,984   | 4,090   | 3,105  | 3,405  | 2,647  | 2,903  | N/A     | N/A     |
| Commercial Fertilizer                       | 5,840     | 6,606     | 3,790   | 4,108   | 2,652  | 2,825  | 498    | 585    | N/A     | N/A     |
| Agricultural Chemicals                      | 11,845    | 11,965    | 7,622   | 7,124   | 5,242  | 4,595  | 3,012  | 2,018  | 1,211   | N/A     |
| Total production expenses                   | N/A       | 99,278    | N/A     | 56,737  | N/A    | N/A    | N/A    | N/A    | N/A     | N/A     |
| <b>North and South Bay</b>                  |           |           |         |         |        |        |        |        |         |         |
| Livestock & Poultry Purchase                | 21,864    | 22,667    | 16,161  | 14,705  | 10,321 | 8,889  | 5,278  | 3,957  | 1,756   | 1,387   |
| Feed for Livestock and Poultry              | 79,218    | 108,778   | 59,140  | 73,498  | 5,930  | 8,180  | 2,536  | 3,793  | 4,050   | 5,431   |
| All Other Production Expenses               | N/A       | N/A       | N/A     | N/A     | N/A    | N/A    | N/A    | N/A    | N/A     | N/A     |
| Hired Farm Labor                            | 22,973    | 26,420    | 1,431   | 1,473   | 160    | 165    | 100    | N/A    | 196     | 42      |
| Interest Paid                               | 27,764    | N/A       | 1,635   | N/A     | 405    | N/A    | N/A    | N/A    | 28      | N/A     |
| Repair and Maintenance                      | 27,967    | 30,140    | 5,233   | 4,932   | 1,853  | 1,672  | 691    | 593    | 576     | 696     |
| Cash Rent                                   | 22,120    | 24,066    | 4,551   | 4,166   | 892    | 892    | 365    | 283    | 430     | 432     |
| Property Taxes Paid                         | 294,644   | 315,217   | 25,467  | 23,574  | 2,584  | 2,637  | 2,133  | 1,204  | 1,139   | 1,410   |
| Petroleum Products                          | N/A       | N/A       | N/A     | N/A     | N/A    | N/A    | N/A    | N/A    | N/A     | N/A     |
| Electricity                                 | 41,159    | 57,905    | 9,602   | 11,041  | 2,454  | 3,114  | 836    | 1,034  | 1,244   | 1,132   |
| Custom Work                                 | 11,315    | N/A       | 2,392   | N/A     | 479    | N/A    | 204    | N/A    | 192     | N/A     |
| Seeds, Plants and Trees                     | N/A       | N/A       | N/A     | N/A     | N/A    | N/A    | N/A    | N/A    | N/A     | N/A     |
| Contract Labor                              | N/A       | N/A       | N/A     | N/A     | N/A    | N/A    | N/A    | N/A    | N/A     | N/A     |
| Commercial Fertilizer                       | N/A       | N/A       | N/A     | N/A     | N/A    | N/A    | N/A    | N/A    | N/A     | N/A     |
| Agricultural Chemicals                      | N/A       | 153,864   | N/A     | 22,197  | N/A    | 4,828  | N/A    | 2,322  | N/A     | 2,274   |
| Total production expenses                   | N/A       | N/A       | N/A     | N/A     | N/A    | N/A    | N/A    | N/A    | N/A     | N/A     |
| <b>Central/South Central Coast</b>          |           |           |         |         |        |        |        |        |         |         |
| Livestock & Poultry Purchase                | 38,733    | 25,578    | 28,211  | 22,656  | 20,947 | 17,670 | 17,311 | 13,556 | 4,626   | 2,845   |
| Feed for Livestock and Poultry              | 52,338    | 29,106    | 26,119  | 21,210  | 11,402 | 7,745  | 8,058  | 4,827  | 4,071   | 2,638   |
| All Other Production Expenses               | 82,374    | 139,286   | 1,697   | 5,990   | 492    | 326    | 296    | 211    | 98      | N/A     |
| Hired Farm Labor                            | 103,843   | 114,124   | 4,186   | 9,422   | 1,143  | 922    | 602    | 616    | 144     | 81      |
| Interest Paid                               | 111,449   | 137,532   | 3,712   | 8,027   | 606    | 415    | 424    | 296    | 81      | N/A     |
| Repair and Maintenance                      | 64,750    | 71,017    | 6,404   | 8,176   | 3,365  | 3,385  | 2,039  | 1,977  | 590     | 565     |
| Cash Rent                                   | 63,607    | 93,873    | 5,844   | 9,941   | 1,646  | 1,798  | 984    | 1,057  | 390     | 375     |
| Property Taxes Paid                         | 641,137   | 791,487   | 21,991  | 45,723  | 5,801  | 5,620  | 4,995  | 5,106  | 1,227   | 2,620   |
| Petroleum Products                          | 219,972   | 293,135   | 5,306   | 9,563   | 688    | 564    | 576    | N/A    | 108     | N/A     |
| Electricity                                 | 83,656    | 113,281   | 9,268   | 14,006  | 4,512  | 5,002  | 2,890  | 2,940  | 907     | 1,147   |
| Custom Work                                 | 35,460    | 45,124    | 2,117   | 2,414   | 1,115  | 1,010  | 812    | 528    | 165     | 27      |
| Seeds, Plants and Trees                     | 70,979    | 100,363   | 8,674   | 10,010  | 4,376  | 5,314  | 3,358  | 3,425  | 1,316   | 570     |
| Contract Labor                              | 110,449   | 115,434   | 8,613   | 10,861  | 4,918  | 3,671  | 3,759  | 3,150  | 556     | 304     |
| Commercial Fertilizer                       | 35,225    | 49,514    | 7,394   | 9,591   | 4,438  | 5,834  | 2,540  | 3,275  | 891     | 744     |
| Agricultural Chemicals                      | 318,992   | 327,226   | 16,522  | 30,495  | 7,806  | 8,644  | 5,971  | 6,230  | 1,469   | 2,426   |
| Total production expenses                   | 2,032,964 | 2,446,080 | 156,058 | 218,085 | 73,255 | 67,920 | 54,615 | 47,194 | 16,639  | N/A     |
| <b>North and Central San Joaquin Valley</b> |           |           |         |         |        |        |        |        |         |         |
| Livestock & Poultry Purchase                | 373,891   | 345,441   | 242,743 | 226,155 | 43,938 | 50,680 | 24,297 | 26,525 | 160,503 | 132,115 |
| Feed for Livestock and Poultry              | 890,582   | 1,171,106 | 515,934 | 679,233 | 16,985 | 22,029 | 6,006  | 8,868  | 97,277  | 112,137 |
| All Other Production Expenses               | 49,484    | 97,687    | 6,924   | 9,685   | 441    | 532    | 194    | 242    | 171     | 74      |
| Hired Farm Labor                            | 162,433   | 223,884   | 17,685  | 23,426  | 1,303  | 1,443  | 718    | 518    | 457     | 100     |
| Interest Paid                               | 204,447   | 319,103   | 15,052  | 21,316  | 855    | 874    | 446    | 496    | 254     | 69      |
| Repair and Maintenance                      | 121,142   | 142,350   | 23,695  | 29,003  | 3,481  | 4,112  | 1,463  | 1,413  | 1,883   | 1,867   |
| Cash Rent                                   | 153,656   | 149,485   | 38,220  | 41,754  | 3,458  | 4,068  | 1,572  | 1,475  | 1,419   | 1,190   |
| Property Taxes Paid                         | 655,918   | 821,542   | 138,797 | 158,768 | 6,452  | 9,371  | 3,706  | 5,500  | 11,488  | 8,785   |
| Petroleum Products                          | 287,954   | 398,429   | 20,447  | 26,159  | 1,062  | 963    | 621    | 674    | 754     | 1,446   |
| Electricity                                 | 182,986   | 231,185   | 46,639  | 57,729  | 4,523  | 6,040  | 1,685  | 2,338  | 3,117   | 3,606   |

|   |           |           |           |           |         |         |       |        |         |         |
|---|-----------|-----------|-----------|-----------|---------|---------|-------|--------|---------|---------|
| Custom Work                               | 165,844   | 243,273   | 31,773    | 44,640    | 1,911   | 2,015   | N/A   | 723    | 850     | 605     |
| Seeds, Plants and Trees                   | 244,764   | 321,862   | 66,134    | 78,130    | 8,132   | 8,019   | 4,142 | 4,467  | 6,932   | 4,332   |
| Contract Labor                            | 125,872   | 154,396   | 28,089    | 34,554    | 6,148   | 8,056   | 4,541 | 6,150  | 1,351   | 1,091   |
| Commercial Fertilizer                     | 81,025    | 104,192   | 17,781    | 22,078    | 4,467   | 5,434   | 1,389 | 1,798  | 1,131   | 866     |
| Agricultural Chemicals                    | 471,030   | 617,936   | 116,786   | 148,409   | 11,073  | 13,948  | 5,160 | 7,851  | 12,573  | 10,996  |
| Total production expenses                 | 4,171,028 | 5,341,871 | 1,326,699 | 1,601,039 | 114,229 | 137,584 | N/A   | 69,038 | 300,160 | 279,279 |
| <b>South San Joaquin Valley</b>           |           |           |           |           |         |         |       |        |         |         |
| Livestock & Poultry Purchase              | 125,066   | 101,788   | 111,471   | 91,176    | 54,277  | 23,215  | N/A   | 6,117  | 15,075  | N/A     |
| Feed for Livestock and Poultry            | 388,573   | 543,985   | 329,436   | 472,823   | 25,564  | 26,456  | 3,500 | 5,099  | 10,534  | 14,374  |
| All Other Production Expenses             | 32,921    | 65,665    | 4,226     | 4,973     | 161     | 116     | 32    | 37     | 144     | 131     |
| Hired Farm Labor                          | 113,382   | 157,906   | 11,440    | 10,420    | 439     | 339     | 43    | N/A    | 375     | 174     |
| Interest Paid                             | 187,851   | 255,271   | 14,672    | 11,770    | 699     | 197     | 246   | N/A    | 987     | 80      |
| Repair and Maintenance                    | 78,466    | 94,285    | 16,804    | 16,999    | 2,325   | 2,190   | 967   | 745    | 1,160   | 806     |
| Cash Rent                                 | 140,179   | 128,397   | 29,538    | 27,929    | 1,592   | 1,421   | 681   | 504    | 780     | 642     |
| Property Taxes Paid                       | 502,430   | 571,501   | 100,912   | 102,822   | 7,773   | 6,643   | 3,324 | 2,094  | 5,573   | 2,784   |
| Petroleum Products                        | 244,433   | 358,914   | 14,707    | 17,968    | 676     | 1,341   | 339   | 469    | 817     | 176     |
| Electricity                               | 138,728   | 147,163   | 32,884    | 33,915    | 3,374   | 3,898   | 1,056 | 1,228  | 1,489   | 1,222   |
| Custom Work                               | 96,249    | 140,936   | 18,946    | 23,061    | 805     | 1,422   | 316   | 285    | 758     | 527     |
| Seeds, Plants and Trees                   | 173,171   | 246,067   | 45,443    | 55,088    | 5,591   | 4,446   | 2,900 | N/A    | 2,120   | 1,285   |
| Contract Labor                            | 86,250    | 86,047    | 17,392    | 16,444    | 2,796   | 2,406   | 2,290 | 1,241  | 666     | 1,088   |
| Commercial Fertilizer                     | 47,849    | 64,430    | 9,933     | 11,302    | 1,879   | 1,748   | 591   | 829    | 743     | 410     |
| Agricultural Chemicals                    | 350,570   | 492,157   | 85,214    | 98,383    | 10,863  | 11,017  | 2,822 | 2,809  | 4,610   | 3,116   |
| Total production expenses                 | 2,706,118 | 3,454,512 | 843,018   | 995,073   | 118,814 | 86,855  | N/A   | N/A    | 45,831  | 26,815  |
| <b>Eastside</b>                           |           |           |           |           |         |         |       |        |         |         |
| Livestock & Poultry Purchase              | 1,295     | N/A       | 1,155     | N/A       | 1,163   | N/A     | 727   | N/A    | N/A     | N/A     |
| Feed for Livestock and Poultry            | 858       | 1,118     | 734       | 980       | 650     | 811     | 301   | 537    | N/A     | N/A     |
| All Other Production Expenses             | 466       | N/A       | N/A       | N/A       | N/A     | N/A     | N/A   | N/A    | N/A     | N/A     |
| Hired Farm Labor                          | N/A       | 219       | N/A       | 152       | N/A     | 114     | N/A   | 93     | N/A     | N/A     |
| Interest Paid                             | 191       | N/A       | N/A       | N/A       | 16      | N/A     | N/A   | N/A    | N/A     | N/A     |
| Repair and Maintenance                    | 640       | 577       | 465       | 410       | 322     | 318     | 135   | 142    | 33      | 50      |
| Cash Rent                                 | 741       | 502       | N/A       | 378       | 202     | 121     | N/A   | 91     | N/A     | 3       |
| Property Taxes Paid                       | N/A       | 1,366     | N/A       | 948       | N/A     | 801     | N/A   | 595    | N/A     | 24      |
| Petroleum Products                        | N/A       | N/A       | N/A       | N/A       | N/A     | N/A     | N/A   | N/A    | N/A     | N/A     |
| Electricity                               | 678       | 756       | 525       | 558       | 351     | 416     | 167   | 196    | 24      | 23      |
| Custom Work                               | N/A       | 143       | N/A       | 135       | N/A     | 69      | N/A   | 55     | N/A     | N/A     |
| Seeds, Plants and Trees                   | N/A       | N/A       | N/A       | N/A       | N/A     | N/A     | N/A   | N/A    | N/A     | N/A     |
| Contract Labor                            | N/A       | 440       | N/A       | 315       | N/A     | 309     | N/A   | 178    | N/A     | N/A     |
| Commercial Fertilizer                     | N/A       | N/A       | N/A       | N/A       | N/A     | N/A     | N/A   | N/A    | N/A     | N/A     |
| Agricultural Chemicals                    | N/A       | 1,463     | N/A       | 1,270     | N/A     | 970     | N/A   | 536    | N/A     | 91      |
| Total production expenses                 | N/A       | N/A       | N/A       | N/A       | N/A     | N/A     | N/A   | N/A    | N/A     | N/A     |
| <b>South Coast/Mojave/Colorado Desert</b> |           |           |           |           |         |         |       |        |         |         |
| Livestock & Poultry Purchase              | 279,235   | 196,658   | 243,266   | 169,278   | 35,714  | 27,537  | N/A   | N/A    | 148,311 | 94,535  |
| Feed for Livestock and Poultry            | 567,105   | 595,275   | 445,282   | 447,910   | 18,958  | 16,135  | N/A   | 1,551  | 87,792  | 88,422  |
| All Other Production Expenses             | 46,893    | 95,938    | 4,138     | N/A       | 92      | N/A     | N/A   | N/A    | 268     | N/A     |
| Hired Farm Labor                          | 70,076    | 88,645    | 8,609     | 6,923     | 239     | 250     | 25    | N/A    | 306     | 409     |
| Interest Paid                             | 61,973    | 78,700    | 6,493     | 4,746     | 238     | 45      | 36    | 32     | 508     | 181     |
| Repair and Maintenance                    | 51,795    | 64,453    | 10,651    | 10,667    | 1,560   | 1,214   | 367   | N/A    | 1,777   | 2,646   |
| Cash Rent                                 | 54,079    | 61,373    | 18,865    | 17,927    | 957     | 1,103   | 125   | 126    | 797     | 2,479   |
| Property Taxes Paid                       | 517,315   | 504,086   | 98,168    | 82,546    | 5,963   | 4,063   | N/A   | 436    | 8,426   | 12,281  |
| Petroleum Products                        | 114,098   | 167,305   | 9,607     | 5,941     | 413     | 483     | N/A   | 184    | 547     | 1,663   |
| Electricity                               | 81,175    | 99,446    | 25,378    | 28,349    | 2,433   | 1,753   | 573   | 308    | 3,016   | 6,589   |
| Custom Work                               | 67,177    | 51,057    | 11,912    | 6,641     | 404     | 205     | 45    | N/A    | 1,463   | 1,018   |
| Seeds, Plants and Trees                   | 109,127   | 113,383   | 40,307    | 37,114    | 2,258   | 1,933   | 448   | N/A    | 3,852   | 4,037   |
| Contract Labor                            | 75,227    | 74,796    | 22,155    | 15,166    | 1,509   | 1,326   | 665   | 433    | 1,410   | 871     |
| Commercial Fertilizer                     | 46,093    | 46,624    | 8,577     | 8,249     | 1,729   | 1,456   | 364   | 373    | 1,286   | 2,049   |
| Agricultural Chemicals                    | 348,392   | 368,584   | 100,629   | 85,131    | 7,221   | 4,551   | 1,555 | 773    | 13,005  | 12,069  |
| Total production expenses                 | 2,489,760 | 2,606,323 | 1,054,037 | N/A       | 79,688  | N/A     | N/A   | N/A    | 272,764 | N/A     |

 =Forest and rangeland farms  
Source: National Agricultural Statistics Service, 2001a

## Appendix N: Number of farms using grazing permits, statewide and regional, 1987 and 1997

| Region and grazing permit type              | All farms |      | All farms w/cattle, sheep and goats |      | Beef cattle farms excluding feedlots |      |                   |      | Sheep and goat farms and feedlots |      |
|---|-----------|------|-------------------------------------|------|--------------------------------------|------|-------------------|------|-----------------------------------|------|
|   | 1992      | 1997 | 1992                                | 1997 | All farms                            |      | Farms 2000+ acres |      | 1992                              | 1997 |
|   |           |      |                                     |      | 1992                                 | 1997 | 1992              | 1997 |                                   |      |
| <b>California</b>                           |           |      |                                     |      |                                      |      |                   |      |                                   |      |
| U.S. Forest Service                         | 432       | 620  | 413                                 | 513  | 346                                  | 402  | 158               | 211  | 18                                | 57   |
| Taylor Grazing                              | 354       | 498  | 325                                 | 435  | 244                                  | 336  | 90                | 179  | 47                                | 40   |
| Indian Land                                 | 13        | 78   | 11                                  | 47   | 8                                    | 28   | 2                 | 9    | 0                                 | 9    |
| Other                                       | 205       | 328  | 197                                 | 270  | 145                                  | 214  | 35                | 68   | 34                                | 27   |
| <b>North Coast</b>                          |           |      |                                     |      |                                      |      |                   |      |                                   |      |
| U.S. Forest Service                         | 11        | 8    | 11                                  | 7    | 7                                    | 4    | 5                 | 4    | 3                                 | 3    |
| Taylor Grazing                              | 14        | 5    | 13                                  | 4    | 11                                   | 4    | 4                 | 3    | 2                                 | 0    |
| Indian Land                                 | 6         | 3    | 6                                   | 3    | 5                                    | 3    | 1                 | 2    | 1                                 | 0    |
| Other                                       | 14        | 5    | 13                                  | 5    | 11                                   | 5    | 2                 | 4    | 1                                 | 0    |
| <b>North Interior</b>                       |           |      |                                     |      |                                      |      |                   |      |                                   |      |
| U.S. Forest Service                         | 124       | 167  | 120                                 | 152  | 110                                  | 122  | 43                | 71   | 5                                 | 12   |
| Taylor Grazing                              | 106       | 189  | 100                                 | 178  | 85                                   | 146  | 25                | 88   | 5                                 | 7    |
| Indian Land                                 | 3         | 7    | 2                                   | 6    | 2                                    | 2    | 1                 | 1    | 0                                 | 1    |
| Other                                       | 31        | 57   | 30                                  | 53   | 26                                   | 46   | 7                 | 16   | 4                                 | 3    |
| <b>Sacramento Valley/North Sierra</b>       |           |      |                                     |      |                                      |      |                   |      |                                   |      |
| U.S. Forest Service                         | 75        | 81   | 72                                  | 62   | 63                                   | 50   | 34                | 21   | 7                                 | 6    |
| Taylor Grazing                              | 22        | 36   | 19                                  | 25   | 9                                    | 19   | 4                 | 5    | 9                                 | 2    |
| Indian Land                                 | 0         | 3    | 0                                   | 2    | 0                                    | 2    | 0                 | 0    | 0                                 | 0    |
| Other                                       | 23        | 40   | 22                                  | 32   | 12                                   | 26   | 1                 | 3    | 6                                 | 3    |
| <b>North Central/Central Sierra</b>         |           |      |                                     |      |                                      |      |                   |      |                                   |      |
| U.S. Forest Service                         | 40        | 55   | 40                                  | 48   | 37                                   | 43   | 12                | 28   | 2                                 | 5    |
| Taylor Grazing                              | 41        | 41   | 39                                  | 37   | 25                                   | 30   | 5                 | 11   | 10                                | 3    |
| Indian Land                                 | 0         | 3    | 0                                   | 2    | 0                                    | 1    | 0                 | 0    | 0                                 | 1    |
| Other                                       | 19        | 27   | 18                                  | 24   | 16                                   | 23   | 1                 | 9    | 1                                 | 1    |
| <b>North/South Bay</b>                      |           |      |                                     |      |                                      |      |                   |      |                                   |      |
| U.S. Forest Service                         | 3         | 26   | 3                                   | 18   | 3                                    | 8    | 0                 | 1    | 0                                 | 8    |
| Taylor Grazing                              | 20        | 17   | 16                                  | 12   | 12                                   | 7    | 5                 | 1    | 2                                 | 3    |
| Indian Land                                 | 0         | 14   | 0                                   | 8    | 0                                    | 5    | 0                 | 1    | 0                                 | 3    |
| Other                                       | 27        | 53   | 26                                  | 45   | 21                                   | 32   | 7                 | 12   | 3                                 | 7    |
| <b>Central/South Central Coast</b>          |           |      |                                     |      |                                      |      |                   |      |                                   |      |
| U.S. Forest Service                         | 57        | 64   | 55                                  | 55   | 44                                   | 45   | 24                | 22   | 2                                 | 5    |
| Taylor Grazing                              | 32        | 34   | 29                                  | 33   | 28                                   | 30   | 24                | 20   | 1                                 | 1    |
| Indian Land                                 | 0         | 6    | 0                                   | 5    | 0                                    | 4    | 0                 | 1    | 0                                 | 1    |
| Other                                       | 29        | 43   | 28                                  | 33   | 24                                   | 30   | 5                 | 12   | 4                                 | 2    |
| <b>North and Central San Joaquin Valley</b> |           |      |                                     |      |                                      |      |                   |      |                                   |      |
| U.S. Forest Service                         | 28        | 53   | 28                                  | 50   | 27                                   | 37   | 18                | 16   | 0                                 | 3    |
| Taylor Grazing                              | 25        | 35   | 22                                  | 35   | 15                                   | 27   | 8                 | 14   | 4                                 | 3    |
| Indian Land                                 | 0         | 9    | 0                                   | 8    | 0                                    | 6    | 0                 | 1    | 0                                 | 0    |
| Other                                       | 27        | 34   | 25                                  | 33   | 20                                   | 24   | 6                 | 4    | 2                                 | 3    |
| <b>South San Joaquin Valley</b>             |           |      |                                     |      |                                      |      |                   |      |                                   |      |
| U.S. Forest Service                         | 40        | 66   | 38                                  | 62   | 29                                   | 48   | 18                | 28   | 5                                 | 6    |
| Taylor Grazing                              | 49        | 63   | 48                                  | 60   | 37                                   | 36   | 9                 | 18   | 9                                 | 14   |
| Indian Land                                 | 1         | 6    | 1                                   | 6    | 1                                    | 4    | 0                 | 2    | 0                                 | 0    |
| Other                                       | 17        | 22   | 17                                  | 22   | 9                                    | 13   | 4                 | 3    | 7                                 | 4    |
| <b>Eastside</b>                             |           |      |                                     |      |                                      |      |                   |      |                                   |      |
| U.S. Forest Service                         | 16        | 28   | 15                                  | 24   | 11                                   | 23   | 4                 | 12   | 2                                 | 1    |
| Taylor Grazing                              | 14        | 22   | 14                                  | 21   | 10                                   | 20   | 3                 | 10   | 0                                 | 0    |
| Indian Land                                 | 1         | 1    | 0                                   | 1    | 0                                    | 1    | 0                 | 1    | 0                                 | 0    |
| Other                                       | 2         | 5    | 2                                   | 5    | 2                                    | 5    | 1                 | 1    | 0                                 | 0    |
| <b>South Coast/Mojave/Colorado Desert</b>   |           |      |                                     |      |                                      |      |                   |      |                                   |      |
| U.S. Forest Service                         | 38        | 72   | 31                                  | 35   | 15                                   | 22   | 0                 | 8    | 0                                 | 8    |
| Taylor Grazing                              | 31        | 56   | 25                                  | 30   | 12                                   | 17   | 3                 | 9    | 5                                 | 7    |
| Indian Land                                 | 2         | 26   | 2                                   | 6    | 0                                    | 0    | 0                 | 0    | 0                                 | 3    |
| Other                                       | 16        | 42   | 16                                  | 18   | 4                                    | 10   | 1                 | 4    | 6                                 | 4    |

=Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a

**Appendix O: Acreage grazed under permit, statewide and regional, 1997**

| Region   | All farms | All farms w/cattle, sheep and goats | Beef cattle farms excluding feedlots |             | Sheep and goat farms and feedlots |
|--|-----------|-------------------------------------|--------------------------------------|-------------|-----------------------------------|
|  |           |                                     | All farms                            | 2000+ acres |                                   |
| California                                     | 5,803,281 | 5,685,139                           | 4,696,524                            | 4,420,558   | 665,928                           |
| North Coast                                    | 73,938    | N/A                                 | 64,586                               | 63,066      | N/A                               |
| North Interior                                 | 1,228,031 | 1,179,029                           | 982,844                              | 896,042     | N/A                               |
| North and South Sacramento Valley/North Sierra | N/A       | N/A                                 | N/A                                  | N/A         | N/A                               |
| North Central and Central Sierra               | 341,065   | 336,504                             | 325,727                              | 290,245     | N/A                               |
| North and South Bay                            | N/A       | N/A                                 | N/A                                  | N/A         | N/A                               |
| Central/South Central Coast                    | 609,578   | 599,593                             | 548,104                              | 521,091     | 14,278                            |
| North and Central San Joaquin Valley           | 459,256   | N/A                                 | 360,487                              | 340,872     | N/A                               |
| South San Joaquin Valley                       | N/A       | N/A                                 | N/A                                  | N/A         | N/A                               |
| Eastside                                       | 217,993   | N/A                                 | 204,583                              | 193,425     | N/A                               |
| South Coast/Mojave/Colorado Desert             | N/A       | N/A                                 | N/A                                  | N/A         | N/A                               |

 =Forest and rangeland farms

Source: National Agricultural Statistics Service, 2001a