

1994 TULARE COUNTY
AGRICULTURAL
CROP AND
LIVESTOCK REPORT





Tulare County Agricultural Commissioner/Sealer

Lenord Craft, Agricultural Commissioner
Sealer of Weights and Measures

Gary Kunkel, Chief Deputy
Commissioner/Sealer

1995

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CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE

AND

THE HONORABLE BOARD OF SUPERVISORS
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In accordance with the provisions of Sections 2272 & 2279 of the California Agricultural Code, I am pleased to submit the Annual Report of the acreage, production, and valuation of agricultural commodities produced in Tulare County during the calendar year 1994. This report is the result of information gathered from many sources, and as always, it must be emphasized that the figures represent *gross returns* to the producer and do not indicate actual net profit.

Once again, Tulare County is proud to be the number one dairy county in the United States. This growth industry continues to have an ever-increasing impact on the local farming, processing, and business communities. With the continued expansion and introduction of new dairies, and the arrival of more processors, this segment of Tulare County agriculture has easily maintained its number one ranking.

The weather problems of the previous few years, ie, freezing temperatures and drought, were not as troublesome for the 1994 crop season. Above-normal rainfall, for the second consecutive year, excellent growing conditions, and the continued growth of the dairy industry, allowed us to report another record year in agricultural receipts of **\$2,504,944,000**.

I wish to express my sincere appreciation to the many producers, processors, and agencies (both private and public), who have assisted in compiling this report. I would also like to thank all the members of my staff, particularly Bob Chilton and R. Dennis Haines, whose input and hard work have made the publication of this report possible.

Respectfully submitted,

Lenord L. Craft
Agricultural Commissioner/Sealer

ENGLISH (PERSIAN) WALNUTS — A TULARE COUNTY LEGACY

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Although date of origin is unknown, botanists generally agree that the “English” walnut (*Juglans regia L.*) originated in the Carpathian mountains of Eastern Europe. Its native range extended through Turkey, Iraq, Iran, Afghanistan, and East into the South foothills of the Soviet Union. It became originally known as the “Persian” walnut because Persia (Iran) used it extensively as a trade item in Southern Europe. From Persia, trees were then introduced into Greece and Rome where the fruit (nut) was referred to as *Jovis Glans*, meaning, “nut of the Gods”, “nut of Jupiter”, or the “royal nut”. In those days, Persian walnuts had both food and medicinal value, being used (among other things) to fight tooth decay and “relax the stomach”. The hulls were also used. Cloth and hair were colored with hull extract. Persian walnuts then spread into Southern Europe & England in 1562 where the term English walnut was adopted. Although no significant walnut cultivation ever occurred there, that name developed because English trading ships dispersed the nut throughout the world.

The Spanish introduced the English walnut into Chile and the Franciscan Fathers were credited with bringing them to California where they planted trees beside their missions. Large English walnut trees were reported on Alameda street and on the old Louis Vigne property in Los Angeles in 1827. Other orchards were planted outside the missions by Colonel J.J. Warner on the “Warner Ranch” in 1843. Circa 1846 other walnut pioneers: Frank E. Kellogg of Calistoga, the Honorable Russel Heath of Carpinteria, and J.W. Wolfskill were reported to have planted walnut seed, some on the advice of a Reverend Father Gonzales who was head of the Franciscan Missions.

The first important commercial planting of “soft shell” English walnuts in California is reported to have been by orchardist and nurseryman, Joseph Sexton of Goleta (near Santa Barbara) in 1867. He planted a sack of soft shell walnuts — and some hard shell types as well. In 1869 he planted more in “orchard form” and selected several of the better, more desirable types. He called these “improved soft shell” varieties and named them after locations in Southern California, e.g. 'Santa Barbara Soft Shell'. The best of the selected varieties could produce as much as 300 pounds of nuts per tree but were too frost sensitive for expansion to the north. Felix Gillet (of Nevada City) is credited as being the pioneer of the walnut industry in Northern California. He Established the Barren Hill nursery in 1871. There he imported scion wood and introduced varieties from France, particularly 'Franquette', 'Mayette', and 'Meylan', which were also grown in Oregon and Southern Washington. In Northern California, Emily Vrooman planted 60 acres near Santa Rosa to initiate the start of commercial walnut production. By 1915, seedling trees were no longer planted and the best varieties, selected from seedling soft shells and the French varieties, were grafted onto seedling rootstocks in order to gain uniformity of performance.

Early commercial varieties were selected from seedlings. Such old standbys as 'Eureka' (William Meek, mid 1890's), 'Placentia' (George Hind, 1893), 'Concord' (George Westcott, 1895), 'Payne' (G.P. Payne, 1898), and 'Hartley' (John Hartley, circa 1915) which is the most important walnut variety in California, originated as “chance” seedlings in established orchards. Rootstocks of

superior performance (i.e. uniform in vigor and resistant to Phytophthora root rot, Oak root fungus, crown gall, etc.) were selected once grafting became a proven method of propagating superior seedlings. From 1879 to 1885, Luther Burbank hybridized walnuts to produce superior rootstocks. The most famous of these were the 'Paradox' hybrids resulting from crosses of English with Northern California or California Black walnuts (*J. regia* x *J. Hindsii* or *J. californica*) and the 'Royal' hybrids resulting from crosses of Eastern Black with Northern California Black walnut (*J. nigra* x *J. hindsii*).

The commercial Tulare County industry is a relative newcomer. Paschal Bequette, in 1871, was reported to have harvested his first crop of fine walnuts growing on his trees at Garden & Acequia in Visalia. These nuts, probably from trees planted in the 1860's, were the first walnuts reported in the County. In 1887, Thomas Nighbert brought good walnuts from heavy bearing trees into town from Townsend (now Elderwood). Occasional, although minor, reports of walnut plantings continued, but few orchards existed prior to 1900. In fact, most agree the Jacob brothers, who planted a border of trees around 160 acres in 1890, introduced the commercial walnut industry to Tulare county. Five years later (1895) the brothers planted an additional 25 acres. The first large planting of trees, obtained from the Jacob Brothers Nursery, consisted of 40 acres planted by George Fleming on his "Fleming Fruit Co." ranch. This later became known as the Visalia Orchard Co. Other early walnut pioneers of Tulare County included: J.E. Hester, Frank Powell, Walter Rouse, M.W. Dula, Sam Newman, and Paul Dobson. From that beginning, the Tulare County walnut industry has grown considerably and now 27,322 acres (1994) of which 1,658 are non-bearing. This clearly demonstrates the continuing viability of the business.

Tulare . . . a variety named for Tulare County

Success of the California walnut industry rests largely with the varieties it grows. Our most productive varieties originated from the University of California's walnut breeding program begun in 1944 by the late Eugene F. Serr at the U.C. Davis Campus. The search was made for favorable attributes: yield, leafing date, harvest date, ability to bear at lateral positions on shoots, percent kernel, and kernel color. In conjunction with his colleague Harold I. Forde, Serr produced many productive varieties grown commercially today including: 'Serr', 'Tehama', 'Chico', 'Vina', 'Gustine', 'Lompoc', 'Amigo', 'Pedro', and 'Midland'. Since 1965 Forde continued Serr's breeding program and released: 'Chandler', 'Howard', and 'Sunland'. 'Tulare', also a product of that program, was extensively tested in Tulare County by U.C.'s Cooperative Extension Service and was found to be one of the most heavily-producing varieties, well adapted to close planting and for those orchards configured into 'hedgerow'. Tulare has been released and is popular in new plantings both here and around the state. The U.C. walnut breeding program continues to this date led by U.C.'s Gale McGranahan, and even still, superior varieties are emerging.

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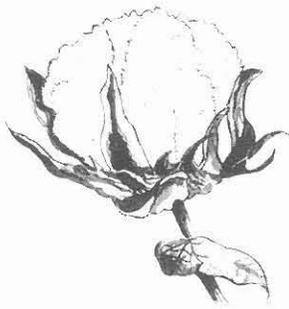
TABLE OF CONTENTS

| | |
|--|---------------|
| COUNTY ACREAGE-PERMANENT PLANTING | Page 1 |
| FIELD CROPS | Pages 2 - 3 |
| SEED CROPS | Page 3 |
| VEGETABLE CROPS | Page 4 |
| INDUSTRIAL CROPS | Page 4 |
| FRUIT AND NUT CROPS | Pages 5 - 7 |
| NURSERY PRODUCTS | Page 8 |
| APIARY PRODUCTS | Page 8 |
| LIVESTOCK AND POULTRY | Page 9 |
| LIVESTOCK AND POULTRY PRODUCTS | Page 9 |
| SUMMARY | Page 10 |
| MILLION DOLLAR PRODUCTS | Page 11 |
| COMPARATIVE AGRICULTURAL VALUES | Pages 12 - 14 |
| PRODUCE EXPORT DATA..... | Page 15 |
| TULARE COUNTY ANNUAL SUSTAINABLE AGRICULTURE | Page 16 |
| TULARE COUNTY PROFILE | Page 17 |
| CONTRIBUTORS | Page 18 |

TULARE COUNTY AGRICULTURAL ACREAGE STATISTICS

| ORCHARD CROPS | BEARING ACREAGE | NON-BEARING ACREAGE | TOTAL ACREAGE |
|---------------------------------|--------------------|------------------------|------------------|
| <u>CITRUS</u> | | | |
| Grapefruit | 1,268 | 493 | 1,761 |
| Lemons | 3,920 | 122 | 4,042 |
| Limes | 5 | 0 | 5 |
| Navels | 69,138 | 2,138 | 71,276 |
| Valencias | 29,421 | 1,226 | 30,647 |
| Tangerines | 1,918 | 190 | 2,108 |
| TOTAL | 105,670 | 4,169 | 109,839 |
| <u>DECIDUOUS AND GRAPES</u> | | | |
| Almonds | 12,732 | 129 | 12,861 |
| Apples | 1,951 | 125 | 2,076 |
| Apricots | 946 | 94 | 1,040 |
| Avocados | 847 | 9 | 856 |
| Cherries | 367 | 234 | 601 |
| Figs | 69 | 0 | 69 |
| Grapes | | | |
| Raisin | 36,073 | 365 | 36,438 |
| Table | 25,840 | 2,247 | 28,087 |
| Wine | 10,305 | 1,082 | 11,387 |
| Kiwifruit | 1,699 | 4 | 1,703 |
| Nectarines | 14,897 | 1,121 | 16,018 |
| Olives | 16,443 | 2,677 | 19,120 |
| Peaches | | | |
| Cling | 1,348 | 42 | 1,390 |
| Freestone | 10,116 | 1,124 | 11,240 |
| Pears & Asian Pears | 657 | 27 | 684 |
| Pecans | 934 | 191 | 1,125 |
| Persimmons | 700 | 22 | 722 |
| Pistachio Nuts | 4,802 | 1,962 | 6,764 |
| Plums | 20,415 | 417 | 20,832 |
| Pomegranates | 1,149 | 0 | 1,149 |
| Prunes | 7,715 | 581 | 8,296 |
| Quince | 181 | 0 | 181 |
| Walnuts | 25,664 | 1,658 | 27,322 |
| Miscellaneous <u>A/</u> | 74 | 0 | 74 |
| TOTAL | | | |
| Total Grapes | 72,218 | 3,694 | 75,912 |
| Total Orchard Crops | 229,376 | 14,586 | 243,962 |
| GRAND TOTAL | 301,594 | 18,280 | 319,874 |

A/ Includes: Chestnuts, Dates, Grape Rootstock, Guava/Fejoa, Jojoba, and Plumcot.



FIELD CROPS

| | Year | Harvested Acreage | Per Acre | Production | | Value | |
|-----------------------------------|------|----------------------|-------------|------------|------|-------------|-------------|
| | | | | Total | Unit | Per Unit | Total |
| Alfalfa - Hay | 1994 | 83,900 | 8.92 | 748,000 | Ton | 109.00 | 81,532,000 |
| | 1993 | 76,900 | 8.13 | 625,000 | Ton | 99.80 | 62,375,000 |
| Silage <u>A/</u> | 1994 | X | 3.00 | 84,000 | Ton | 30.00 | 2,520,000 |
| | 1993 | X | 3.00 | 76,900 | Ton | 26.00 | 1,999,000 |
| Barley | 1994 | 32,100 | 2.04 | 65,500 | Ton | 114.00 | 7,467,000 |
| | 1993 | 24,200 | 2.10 | 50,800 | Ton | 114.00 | 5,791,000 |
| Beans - Dry | 1994 | 10,100 | 1.21 | 12,200 | Ton | 700.00 | 8,540,000 |
| | 1993 | 7,970 | 1.28 | 10,200 | Ton | 691.00 | 7,048,000 |
| Corn - Grain | 1994 | 12,200 | 5.00 | 61,000 | Ton | 107.00 | 6,527,000 |
| | 1993 | 14,600 | 5.10 | 74,500 | Ton | 103.00 | 7,674,000 |
| Silage | 1994 | 60,700 | 23.00 | 1,396,000 | Ton | 21.00 | 29,316,000 |
| | 1993 | 56,100 | 24.00 | 1,346,000 | Ton | 18.30 | 24,632,000 |
| Cotton - Lint <u>B/</u> | 1994 | 139,800 | 1,260.00 | 356,000 | Bale | 79.00 | 140,563,000 |
| | 1993 | 144,600 | 1,340.00 | 391,000 | Bale | 70.10 | 137,201,000 |
| Seed | 1994 | X | X | 129,000 | Ton | 153.00 | 19,737,000 |
| | 1993 | X | X | 164,000 | Ton | 162.00 | 26,568,000 |
| Pasture & Range Irrigated | 1994 | 41,800 | X | X | Acre | 110.00 | 4,598,000 |
| | 1993 | 12,400 | X | X | Acre | 110.00 | 1,364,000 |
| Native | 1994 | 617,000 | X | X | Acre | 11.00 | 6,787,000 |
| | 1993 | 650,000 | X | X | Acre | 11.00 | 7,150,000 |
| Other | 1994 | 58,100 | X | X | Acre | 12.00 | 697,000 |
| | 1993 | 51,000 | X | X | Acre | 12.00 | 612,000 |
| Silage - Small Grain <u>C/</u> | 1994 | 44,500 | 15.70 | 699,000 | Ton | 18.50 | 12,932,000 |
| | 1993 | 44,300 | 16.50 | 731,000 | Ton | 16.50 | 12,062,000 |
| Sorghum Grain | 1994 | 1,960 | 2.50 | 4,900 | Ton | 90.00 | 441,000 |
| | 1993 | 1,610 | 2.16 | 3,480 | Ton | 101.00 | 351,000 |
| Sugar Beets | 1994 | 3,770 | 27.20 | 103,000 | Ton | 31.80 | 3,275,000 |
| | 1993 | 3,220 | 27.00 | 86,900 | Ton | 33.00 | 2,868,000 |



FIELD CROPS

| | Year | Harvested Acreage | Per Acre | Production | | Value | |
|-------------------------|------|----------------------|-------------|------------|------|-------------|-------------|
| | | | | Total | Unit | Per Unit | Total |
| Wheat | 1994 | 45,300 | 2.42 | 110,000 | Ton | 122.00 | 13,420,000 |
| | 1993 | 41,600 | 2.54 | 106,000 | Ton | 115.00 | 12,190,000 |
| Miscellaneous <u>D/</u> | 1994 | 46,345 | X | X | X | X | 6,931,000 |
| | 1993 | 35,900 | X | X | X | X | 3,300,000 |
| TOTAL | 1994 | 1,199,530 | | | | | 345,283,000 |
| | 1993 | 1,164,400 | | | | | 313,185,000 |

A/ Green weight basis.

B/ Yield per acre in pounds lint, production total in 495 lbs. net weight bales, unit value in dollars per lint hundredweight.

C/ Includes Barley, Oats, and Winter Forage.

D/ Includes Bean Screenings & Straw, Garbonzo Beans, Oat Grain & Hay, Safflower, Straw, and Sudan Grass.



SEED CROPS

| | Year | Harvested Acreage | Per Acre | Production | | Value | |
|---|------|----------------------|-------------|------------|------|------------------|-----------|
| | | | | Total | Unit | Per Unit | Total |
| Cotton - Registered or Certified <u>A/</u> | 1994 | 4,920 | X | 4,580 | Ton | 584.00 <u>B/</u> | 2,675,000 |
| | 1993 | 3,465 | X | 2,580 | Ton | 215.00 | 555,000 |
| Wheat - Registered or Certified | 1994 | 465 | 3.00 | 1,400 | Ton | 123.00 | 172,000 |
| | 1993 | 4,461 | 2.62 | 11,700 | Ton | 120.00 | 1,404,000 |
| Miscellaneous <u>C/</u> | 1994 | 598 | X | X | X | X | 1,194,000 |
| | 1993 | 1,031 | X | X | X | X | 566,000 |
| TOTAL | 1994 | 1,063 | | | | | 4,041,000 |
| | 1993 | 5,492 | | | | | 2,525,000 |

A/ Not included in total acreage for "Seed Crops".

B/ Includes per acre approval.

C/ Includes Broccoli, Cowpeas, Garbonzo Beans, Lettuce, Onions, Radishes and Safflower.



VEGETABLE CROPS

| | Year | Harvested Acreage | Production | | | Value | |
|-------------------------|------|----------------------|-------------|--------|------|-------------|------------|
| | | | Per Acre | Total | Unit | Per Unit | Total |
| Broccoli | 1994 | 1,960 | 5.39 | 10,600 | Ton | 586.00 | 6,212,000 |
| | 1993 | 2,005 | 4.51 | 9,040 | Ton | 364.00 | 3,291,000 |
| Cauliflower | 1994 | 1,410 | 3.90 | 5,500 | Ton | 478.00 | 2,629,000 |
| | 1993 | 1,236 | 4.06 | 5,020 | Ton | 477.00 | 2,395,000 |
| Cucumbers - Fresh | 1994 | 468 | 7.87 | 3,680 | Ton | 405.00 | 1,490,000 |
| | 1993 | 285 | 6.80 | 1,940 | Ton | 440.00 | 854,000 |
| Snap Beans - Fresh * | 1994 | 2,823 | 5.35 | 15,100 | Ton | 1,179.00 | 17,803,000 |
| | 1993 | X | X | X | X | X | X |
| Tomatoes - Fresh | 1994 | 1,309 | 15.20 | 19,900 | Ton | 569.00 | 11,323,000 |
| | 1993 | 172 | 8.81 | 1,520 | Ton | 464.00 | 705,000 |
| Miscellaneous <u>A/</u> | 1994 | 7,688 | X | X | X | X | 25,645,000 |
| | 1993 | 8,009 | X | X | X | X | 38,602,000 |
| TOTAL | 1994 | 15,658 | | | | | 65,102,000 |
| | 1993 | 11,707 | | | | | 45,847,000 |

A/ Includes: Asparagus, Beets, Bittermelon, Bokchoy, Cabbage, Cactus, Cantaloupe, Carrots, Celery, Chayote, Cilantro, Dill, Eggplant, Garlic, Gourds, Herbs, Honeydew Melons, Lettuce, Mushrooms, Mustard Greens, Okra, Onions, Oriental Vegetables, Parsley, Peanuts, Peas, Peppers(Bell & Chili), Potatoes, Pumpkins, Radishes, Processed Snap Beans, Spinach, Squash, Sugar Cane, Sugar Peas, Sweet Corn, Swiss Chard, Tomatillos, Tomatoes (processed), Turnips and Watermelons.

* Not reported in 1993.



INDUSTRIAL CROPS

| | Reporting Year | Production | | Value | |
|----------------------------|-------------------|------------|-----------|----------|-----------|
| | | Total | Unit | Per Unit | Total |
| Timber Harvested <u>A/</u> | 1994 | 22,400,000 | Board Ft. | 0.320 | 7,168,000 |
| | 1993 | 43,472,000 | Board Ft. | 0.130 | 5,651,000 |
| Miscellaneous <u>B/</u> | 1994 | X | X | X | 981,000 |
| | 1993 | X | X | X | 761,000 |
| TOTAL | 1994 | | | | 8,149,000 |
| | 1993 | | | | 6,412,000 |

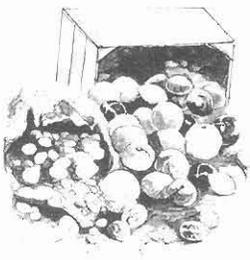
A/ Previous year's production & value based on information provided by Timber Tax Division, Property Taxes Dept., State Board of Equalization.

B/ Includes Biomass and Walnut Stumps.



FRUIT AND NUT CROPS

| | Year | Harvested Acreage | Per Acre | Production | | Value | |
|-------------------|------|----------------------|-------------|------------|------|-------------|-------------|
| | | | | Total | Unit | Per Unit | Total |
| Almonds - Meats | 1994 | 12,732 | 1.10 | 14,000 | Ton | 2,700.00 | 37,800,000 |
| | 1993 | 10,866 | .66 | 7,170 | Ton | 3,820.00 | 27,389,000 |
| Hulls | 1994 | X | X | 35,600 | Ton | 74.00 | 2,634,000 |
| | 1993 | X | X | 18,200 | Ton | 65.00 | 1,183,000 |
| Apples | 1994 | 1,951 | 9.74 | 19,000 | Ton | 636.00 | 12,084,000 |
| | 1993 | 2,129 | 11.40 | 24,300 | Ton | 797.00 | 19,367,000 |
| Apricots | 1994 | 946 | 7.48 | 7,080 | Ton | 880.00 | 6,230,000 |
| | 1993 | 775 | 4.73 | 3,670 | Ton | 1,050.00 | 3,854,000 |
| Avocados | 1994 | 847 | 5.44 | 4,610 | Ton | 639.00 | 2,946,000 |
| | 1993 | 865 | 5.04 | 4,360 | Ton | 517.00 | 2,254,000 |
| Cherries | 1994 | 367 | 4.89 | 1,790 | Ton | 2,950.00 | 5,280,000 |
| | 1993 | 244 | 1.52 | 371 | Ton | 3,100.00 | 1,150,000 |
| Grapes - Total | 1994 | 72,218 | X | X | X | X | 364,127,000 |
| | 1993 | 73,580 | X | X | X | X | 377,650,000 |
| Raisin Varieties | 1994 | 36,073 | 9.83 | X | X | X | X |
| | 1993 | 36,923 | 10.10 | X | X | X | X |
| Canned | 1994 | X | X | 20,500 | Ton | 236.00 | 4,838,000 |
| | 1993 | X | X | 22,900 | Ton | 233.00 | 5,336,000 |
| Crushed <u>A/</u> | 1994 | X | X | 35,600 | Ton | 128.00 | 4,557,000 |
| | 1993 | X | X | 74,700 | Ton | 154.00 | 11,504,000 |
| Dried <u>B/</u> | 1994 | X | X | 34,300 | Ton | 940.00 | 32,242,000 |
| | 1993 | X | X | 30,000 | Ton | 905.00 | 27,150,000 |
| Fresh | 1994 | X | X | 140,000 | Ton | 946.00 | 132,440,000 |
| | 1993 | X | X | 140,000 | Ton | 903.00 | 126,420,000 |
| Juice | 1994 | X | X | 4,200 | Ton | 450.00 | 1,890,000 |
| | 1993 | X | X | 2,230 | Ton | 487.00 | 1,086,000 |
| Table Varieties | 1994 | 25,840 | 6.97 | X | X | X | X |
| | 1993 | 25,905 | 8.69 | X | X | X | X |
| Crushed | 1994 | X | X | 30,200 | Ton | 101.00 | 3,050,000 |
| | 1993 | X | X | 40,100 | Ton | 129.00 | 5,173,000 |
| Fresh | 1994 | X | X | 150,000 | Ton | 1,100.00 | 165,000,000 |
| | 1993 | X | X | 185,000 | Ton | 936.00 | 173,160,000 |



FRUIT AND NUT CROPS

| | Year | Harvested Acreage | Production | | Unit | Value | |
|-------------------------------|------|----------------------|-------------|---------|------|-------------|-------------|
| | | | Per Acre | Total | | Per Unit | Total |
| Wine Varieties | 1994 | 10,305 | 9.36 | X | X | X | X |
| | 1993 | 10,752 | 11.60 | X | X | X | X |
| Crushed | 1994 | X | X | 92,100 | Ton | 197.00 | 18,144,000 |
| | 1993 | X | X | 118,000 | Ton | 213.00 | 25,134,000 |
| Juice | 1994 | X | X | 4,370 | Ton | 450.00 | 1,966,000 |
| | 1993 | X | X | 6,490 | Ton | 414.00 | 2,687,000 |
| Grapefruit - Fresh <u>C</u> / | 1994 | 1,268 | 8.14 | 10,300 | Ton | 1,150.00 | 11,845,000 |
| | 1993 | 639 | 9.90 | 6,330 | Ton | 695.00 | 4,399,000 |
| Kiwifruit | 1994 | 1,699 | 8.14 | 13,800 | Ton | 1,580.00 | 21,804,000 |
| | 1993 | 1,802 | 10.20 | 18,400 | Ton | 1,410.00 | 25,944,000 |
| Lemons - Fresh | 1994 | 3,920 | 9.69 | 20,900 | Ton | 513.00 | 10,722,000 |
| | 1993 | 4,067 | 5.80 | 12,300 | Ton | 646.00 | 7,946,000 |
| Processed | 1994 | X | X | 17,100 | Ton | 51.00 | 872,000 |
| | 1993 | X | X | 11,300 | Ton | 55.00 | 622,000 |
| Nectarines - Fresh | 1994 | 14,897 | 8.63 | 129,000 | Ton | 701.00 | 90,429,000 |
| | 1993 | 13,767 | 5.23 | 72,000 | Ton | 710.00 | 51,120,000 |
| Olives - Canning | 1994 | 16,443 | 2.70 | 38,500 | Ton | 518.00 | 19,943,000 |
| | 1993 | 15,238 | 3.90 | 42,200 | Ton | 500.00 | 21,100,000 |
| Other | 1994 | X | X | 5,900 | Ton | 404.00 | 2,384,000 |
| | 1993 | X | X | 17,300 | Ton | 278.00 | 4,809,000 |
| Oranges - Navel | 1994 | 69,138 | 11.50 | 654,000 | Ton | 400.00 | 261,600,000 |
| | 1993 | 67,777 | 12.30 | 614,000 | Ton | 399.00 | 244,986,000 |
| Processed | 1994 | X | X | 144,000 | Ton | 29.70 | 4,277,000 |
| | 1993 | X | X | 221,000 | Ton | 25.00 | 5,525,000 |
| Valencia | 1994 | 29,421 | 12.20 | 276,000 | Ton | 383.00 | 105,708,000 |
| | 1993 | 29,257 | 10.80 | 242,000 | Ton | 421.00 | 101,882,000 |
| Processed | 1994 | X | X | 82,600 | Ton | 44.00 | 3,634,000 |
| | 1993 | X | X | 73,200 | Ton | 50.00 | 3,660,000 |
| Peaches - Cling | 1994 | 1,348 | 21.00 | 28,300 | Ton | 193.00 | 5,462,000 |
| | 1993 | 1,376 | 16.50 | 22,700 | Ton | 224.00 | 5,085,000 |
| Freestone - Fresh | 1994 | 10,116 | 9.74 | 98,500 | Ton | 585.00 | 57,622,000 |
| | 1993 | 9,841 | 5.56 | 54,700 | Ton | 878.00 | 48,027,000 |



FRUIT AND NUT CROPS

| | Year | Harvested Acreage | Per Acre | Production | | Value | |
|--------------------------|------|----------------------|----------------|------------|------|-------------|---------------|
| | | | | Total | Unit | Per Unit | Total |
| Pears & Asian Pears | 1994 | 657 | 5.75 | 3,780 | Ton | 1,840.00 | 6,955,000 |
| | 1993 | 632 | 8.09 | 5,110 | Ton | 1,310.00 | 6,694,000 |
| Pecans | 1994 | 934 | .62 | 579 | Ton | 2,840.00 | 1,644,000 |
| | 1993 | 770 | .55 | 424 | Ton | 2,420.00 | 1,026,000 |
| Persimmons | 1994 | 700 | 5.90 | 4,130 | Ton | 1,330.00 | 5,493,000 |
| | 1993 | 893 | 5.79 | 5,170 | Ton | 1,300.00 | 6,721,000 |
| Pistachio Nuts <u>D/</u> | 1994 | 4,802 | .91 | 4,370 | Ton | 2,350.00 | 10,270,000 |
| | 1993 | 5,462 | 1.03 | 5,630 | Ton | 2,870.00 | 16,158,000 |
| Plums - Fresh | 1994 | 20,415 | 6.07 | 124,000 | Ton | 590.00 | 73,160,000 |
| | 1993 | 20,693 | 5.30 | 110,000 | Ton | 881.00 | 96,910,000 |
| Pomegranates | 1994 | 1,149 | 3.40 | 3,910 | Ton | 842.00 | 3,292,000 |
| | 1993 | 1,129 | 4.00 | 4,520 | Ton | 980.00 | 4,430,000 |
| Prunes - Processed | 1994 | 7,715 | 2.30 <u>D/</u> | 17,400 | Ton | 1,150.00 | 20,010,000 |
| | 1993 | 6,597 | 2.24 | 14,600 | Ton | 1,200.00 | 17,520,000 |
| Fresh <u>E/</u> | 1994 | X | X | 987 | Ton | 1,260.00 | 1,244,000 |
| | 1993 | X | X | 616 | Ton | 1,450.00 | 893,000 |
| Quince * | 1994 | 181 | 7.60 | 1,380 | Ton | 736.00 | 1,016,000 |
| | 1993 | X | X | X | X | X | X |
| Tangerines <u>F/</u> | 1994 | 1,918 | 10.30 | 19,800 | Ton | 706.00 | 13,979,000 |
| | 1993 | 1,617 | 8.47 | 13,700 | Ton | 642.00 | 8,795,000 |
| Walnuts | 1994 | 25,644 | 1.67 | 42,800 | Ton | 1,070.00 | 45,796,000 |
| | 1993 | 25,087 | 1.73 | 43,400 | Ton | 1,510.00 | 65,534,000 |
| Miscellaneous <u>G/</u> | 1994 | 249 | X | X | X | X | 1,301,000 |
| | 1993 | 313 | X | X | X | X | 2,500,000 |
| TOTAL | 1994 | 301,675 | | | | | 1,211,563,000 |
| | 1993 | 295,416 | | | | | 1,185,133,000 |

A/ Includes green weight raisins for distillery materials.

B/ A combined value reflecting free and reserve tonnage.

C/ Includes Pummelos.

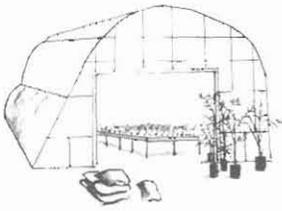
D/ Dry weight basis.

E/ Green weight basis.

F/ Includes Tangelos and Tangors.

G/ Includes Bushberries, Figs, Guava/Feijoa, Jojoba, Limes, Processed Fruits (Apricots, Nectarines, Peaches, Pears, and Plums), and Strawberries.

* Not reported in 1993.



NURSERY PRODUCTS

| | Year | Quantity Sold | Unit | Value | |
|-------------------------------|------|---------------|------|----------|------------|
| | | | | Per Unit | Total |
| Citrus and Subtropical Trees | 1994 | 431,000 | Each | 7.29 | 3,142,000 |
| | 1993 | 456,000 | Each | 7.39 | 3,370,000 |
| Deciduous Fruit and Nut Trees | 1994 | 685,000 | Each | 5.41 | 3,706,000 |
| | 1993 | 571,000 | Each | 6.34 | 3,620,000 |
| Grape & Berry Vines | 1994 | 3,221,000 | Each | .648 | 2,087,000 |
| | 1993 | 3,794,000 | Each | .617 | 2,341,000 |
| Foliage Plants & Cut Flowers | 1994 | X | X | X | 2,459,000 |
| | 1993 | X | X | X | 2,186,000 |
| Ornamental Trees & Shrubs | 1994 | 1,496,000 | Each | 6.60 | 9,874,000 |
| | 1993 | 1,230,000 | Each | 6.63 | 8,155,000 |
| Miscellaneous <u>A/</u> | 1994 | X | X | X | 2,908,000 |
| | 1993 | X | X | X | 2,583,000 |
| TOTAL | 1994 | | | | 24,176,000 |
| | 1993 | | | | 22,255,000 |

A/ Includes Aquatics, Citrus (Buds, Cuttings & Scions), Christmas Trees, Ground Cover, Irises, Olive Trees, Palm Trees, Turf, and Vegetable & Flower Plants in Flats.

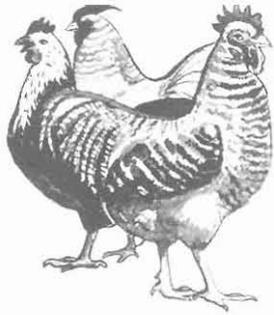


APIARY PRODUCTS

| | Year | Total | Unit | Value | |
|--------------------------|------|-----------|--------|----------|-----------|
| | | | | Per Unit | Total |
| Honey - Orange <u>A/</u> | 1994 | 3,083,000 | Lb. | .51 | 1,572,000 |
| | 1993 | 4,275,000 | Lb. | .51 | 2,180,000 |
| Other | 1994 | 1,285,000 | Lb. | .49 | 630,000 |
| | 1993 | 3,496,000 | Lb. | .47 | 1,643,000 |
| Beeswax | 1994 | 145,000 | Lb. | 1.70 | 246,000 |
| | 1993 | 170,000 | Lb. | 1.35 | 230,000 |
| Pollination <u>B/</u> | 1994 | 68,600 | Colony | 31.90 | 2,188,000 |
| | 1993 | 65,800 | Colony | 28.00 | 1,842,000 |
| TOTAL | 1994 | | | | 4,636,000 |
| | 1993 | | | | 5,895,000 |

A/ From bee colonies registered in Tulare County during 1994 citrus bloom period.

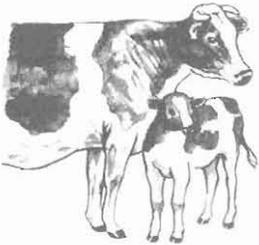
B/ Estimated number of colonies required for adequate pollination.



LIVESTOCK AND POULTRY

| | Year | No of Head | Total Liveweight | Unit | Per Unit | Value |
|-------------------------|------|------------|------------------|------|----------|-------------|
| | | | | | | Total |
| Cattle & Calves | 1994 | 304,000 | X | Head | 732.00 | 222,528,000 |
| | 1993 | 319,000 | X | Head | 746.00 | 237,974,000 |
| Lambs | 1994 | 9,690 | 921,000 | Lb. | .656 | 604,000 |
| | 1993 | 8,750 | 831,000 | Lb. | .671 | 558,000 |
| Hogs & Pigs | 1994 | 269,000 | X | Head | 106.00 | 28,514,000 |
| | 1993 | 269,000 | X | Head | 114.00 | 30,666,000 |
| Turkeys | 1994 | 1,527,000 | 33,023,000 | Lb. | .460 | 15,191,000 |
| | 1993 | 1,877,000 | 38,066,000 | Lb. | .420 | 15,988,000 |
| Miscellaneous <u>A/</u> | 1994 | X | X | X | X | 10,756,000 |
| | 1993 | X | X | X | X | 7,966,000 |
| TOTAL | 1994 | | | | | 277,593,000 |
| | 1993 | | | | | 293,152,000 |

A/ Includes Aquaculture, Beneficial Organisms, Chickens, Fish Bait, Gamebirds, Goats, Pet Food, Pigeons, Pullets, Rabbits, Sheep and Turkey Breeders.



LIVESTOCK AND POULTRY PRODUCTS

| | Year | Production | Unit | Per Unit | Value |
|-------------------------|------|------------|------|----------|-------------|
| | | | | | Total |
| Manure <u>A/</u> | 1994 | 1,694,000 | Ton | 5.29 | 8,961,000 |
| | 1993 | 1,511,000 | Ton | 5.06 | 7,646,000 |
| Milk - Market | 1994 | 48,230,000 | Cwt. | 11.29 | 544,517,000 |
| | 1993 | 42,290,000 | Cwt. | 11.24 | 475,340,000 |
| Manufacturing | 1994 | 196,000 | Cwt. | 10.46 | 2,050,000 |
| | 1993 | 173,000 | Cwt. | 11.05 | 1,912,000 |
| Miscellaneous <u>B/</u> | 1994 | X | X | X | 8,873,000 |
| | 1993 | X | X | X | 5,900,000 |
| TOTAL | 1994 | | | | 564,401,000 |
| | 1993 | | | | 490,798,000 |

A/ Includes Dairy and Poultry Manure.

B/ Includes Turkey Hatching Eggs, Chicken Eggs (Market & Hatching), and Wool.

SUMMARY

| COMMODITY | YEAR | HARVESTED ACREAGE | VALUE |
|-----------------------------------|------|----------------------|---------------|
| FIELD CROPS | 1994 | 1,199,530 | 345,283,000 |
| | 1993 | 1,164,400 | 313,185,000 |
| SEED CROPS | 1994 | 1,063 | 4,041,000 |
| | 1993 | 5,492 | 2,525,000 |
| VEGETABLE CROPS | 1994 | 15,658 | 65,102,000 |
| | 1993 | 11,707 | 45,847,000 |
| INDUSTRIAL CROPS | 1994 | X | 8,149,000 |
| | 1993 | X | 6,412,000 |
| FRUIT AND NUT CROPS | 1994 | 301,675 | 1,211,563,000 |
| | 1993 | 295,416 | 1,185,133,000 |
| NURSERY PRODUCTS | 1994 | X | 24,176,000 |
| | 1993 | X | 22,255,000 |
| APIARY PRODUCTS | 1994 | X | 4,636,000 |
| | 1993 | X | 5,895,000 |
| LIVESTOCK AND POULTRY | 1994 | X | 277,593,000 |
| | 1993 | X | 293,152,000 |
| LIVESTOCK AND POULTRY PRODUCTS | 1994 | X | 564,401,000 |
| | 1993 | X | 490,798,000 |
| GRAND TOTAL | 1994 | 1,517,926 | 2,504,944,000 |
| | 1993 | 1,477,015 | 2,365,202,000 |

1994 MILLION DOLLAR PRODUCTS

| <u>1994 Ranking</u> | | <u>1993 Ranking</u> |
|--|-------------|---------------------|
| 1. Milk | 546,567,000 | 1 |
| 2. Oranges - Navel & Valencia | 375,219,000 | 3 |
| 3. Grapes | 364,127,000 | 2 |
| 4. Cattle & Calves | 222,528,000 | 4 |
| 5. Cotton - Lint & Seed | 162,975,000 | 5 |
| 6. Nectarines | 90,429,000 | 10 |
| 7. Alfalfa - Hay & Silage | 84,052,000 | 8 |
| 8. Plums | 73,160,000 | 6 |
| 9. Peaches - Cling & Freestone | 63,084,000 | 9 |
| 10. Walnuts | 45,796,000 | 7 |
| 11. Almonds | 40,434,000 | 13 |
| 12. Corn - Grain & Silage | 35,843,000 | 11 |
| 13. Hogs & Pigs | 28,514,000 | 12 |
| 14. Olives | 22,327,000 | 15 |
| 15. Kiwifruit | 21,804,000 | 14 |
| 16. Prunes | 21,254,000 | 17 |
| 17. Snap Beans - Fresh | 17,803,000 | ** |
| 18. Turkeys | 15,191,000 | 19 |
| 19. Tangerines | 13,979,000 | 23 |
| 20. Wheat - Grain & Seed | 13,592,000 | 20 |
| 21. Silage - Small Grain | 12,932,000 | 21 |
| 22. Apples | 12,084,000 | 16 |
| 23. Pasture & Range | 12,082,000 | 22 |
| 24. Grapefruit | 11,845,000 | 33 |
| 25. Lemons | 11,594,000 | 24 |
| 26. Tomatoes | 11,323,000 | ** |
| 27. Pistachio Nuts | 10,270,000 | 18 |
| 28. Nursery - Ornamental Trees & Shrubs | 9,874,000 | 25 |
| 29. Manure | 8,961,000 | 26 |
| 30. Beans - Dry | 8,540,000 | 27 |
| 31. Barley | 7,467,000 | 30 |
| 32. Timber Harvested | 7,168,000 | 31 |
| 33. Pears & Asian Pears | 6,955,000 | 29 |
| 34. Apricots | 6,230,000 | 34 |
| 35. Broccoli | 6,212,000 | 38 |
| 36. Persimmons | 5,493,000 | 28 |
| 37. Cherries | 5,280,000 | 45 |
| 38. Nursery - Deciduous Fruit & Nut Trees | 3,706,000 | 36 |
| 39. Pomegranates | 3,292,000 | 32 |
| 40. Sugar Beets | 3,275,000 | 39 |
| 41. Nursery - Citrus & Subtropical Trees | 3,142,000 | 37 |
| 42. Avocados | 2,946,000 | 42 |
| 43. Cauliflower | 2,629,000 | 40 |
| 44. Nursery - Foliage Plants & Cut Flowers | 2,459,000 | 43 |
| 45. Honey | 2,202,000 | 35 |
| 46. Pollination | 2,188,000 | 44 |
| 47. Nursery - Grape & Berry Vines | 2,087,000 | 41 |
| 48. Pecans | 1,644,000 | 43 |
| 49. Cucumbers | 1,490,000 | ** |
| 50. Quince | 1,016,000 | ** |

** Not Reported in 1993

TWENTY YEAR COMPARISON OF AGRICULTURE INCOME IN TULARE COUNTY 1975-1994

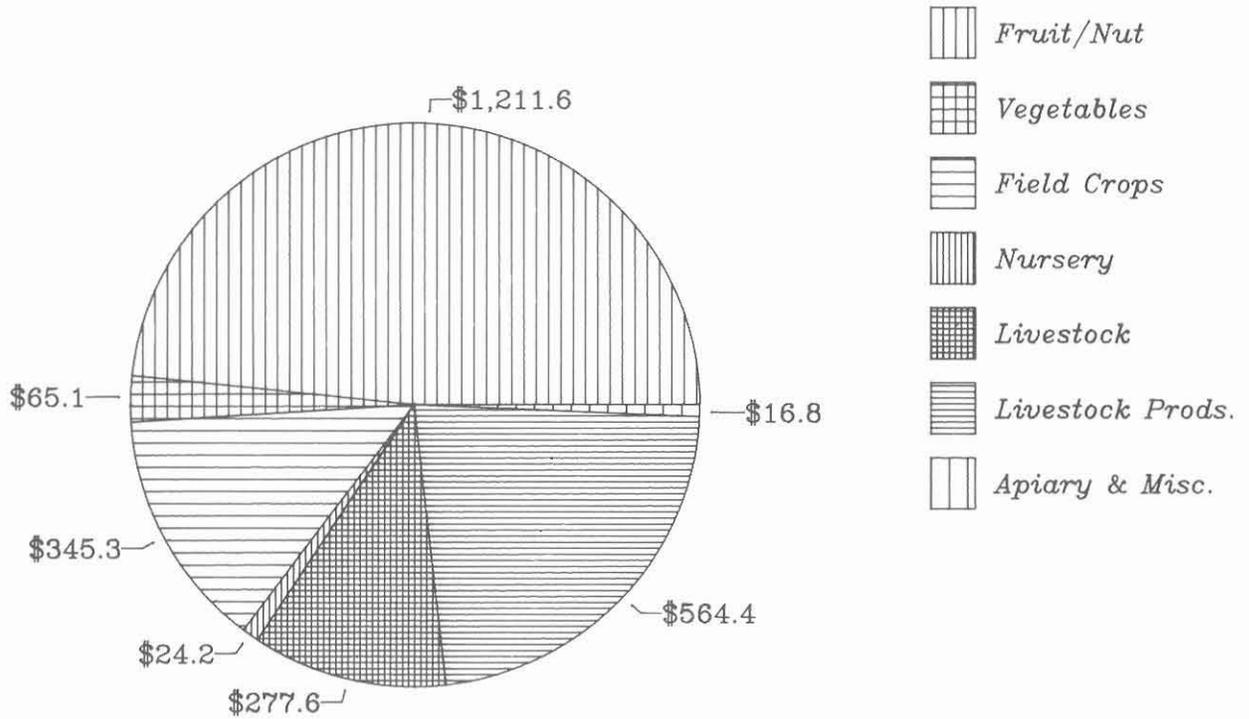


| | |
|------|---------------|
| 1975 | 714,740,000 |
| 1976 | 743,327,000 |
| 1977 | 770,428,000 |
| 1978 | 900,861,700 |
| 1979 | 1,239,814,400 |
| 1980 | 1,340,559,400 |
| 1981 | 1,301,921,200 |
| 1982 | 1,316,016,300 |
| 1983 | 1,245,238,100 |
| 1984 | 1,392,273,500 |
| 1985 | 1,368,387,100 |
| 1986 | 1,400,743,000 |
| 1987 | 1,667,201,900 |
| 1988 | 1,791,151,200 |
| 1989 | 1,853,101,600 |
| 1990 | 2,169,448,000 |
| 1991 | 1,878,425,400 |
| 1992 | 2,221,612,100 |
| 1993 | 2,365,202,000 |
| 1994 | 2,504,944,000 |



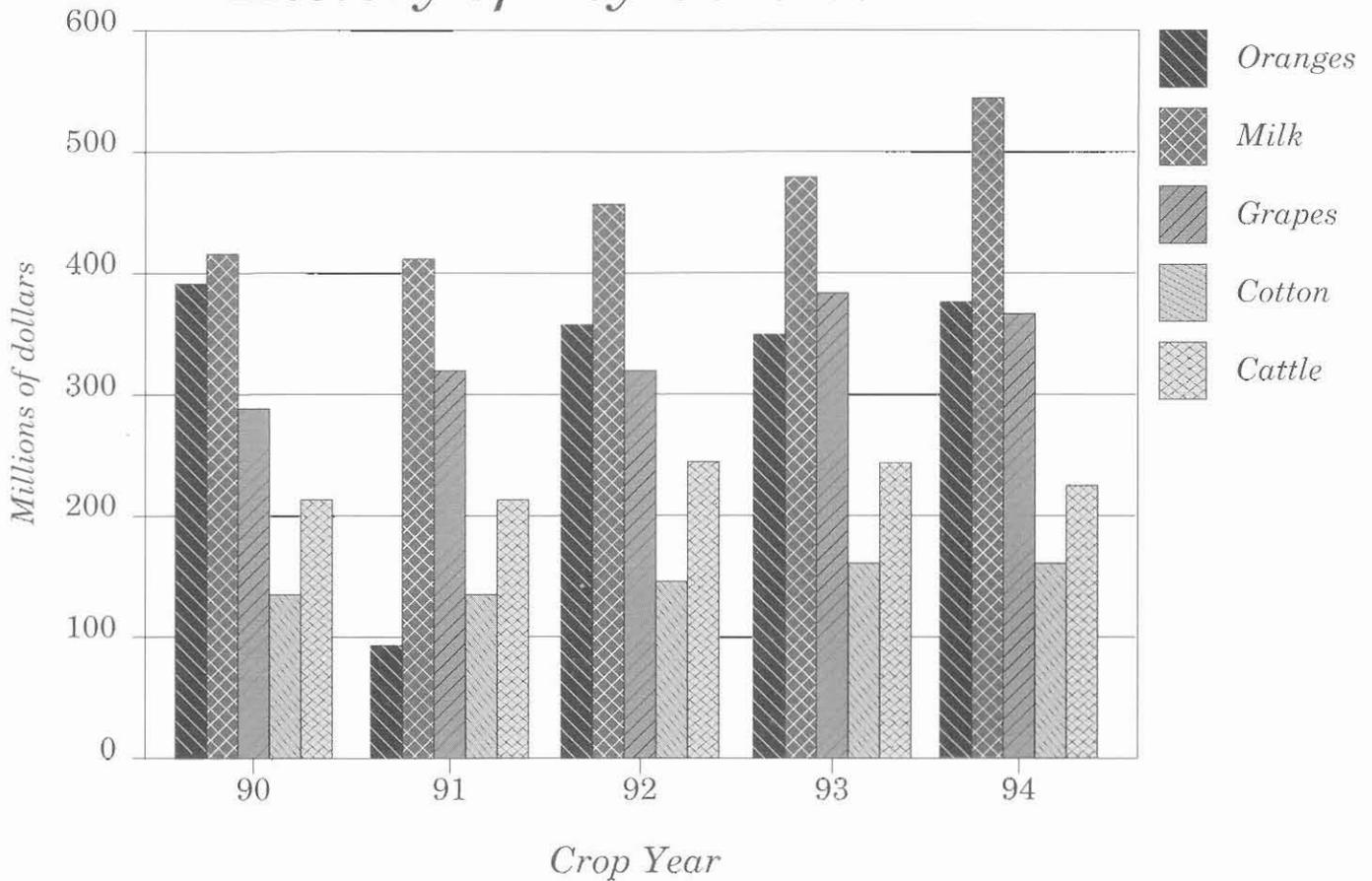
TULARE COUNTY – 1994

Total Value \$2,504,944,000



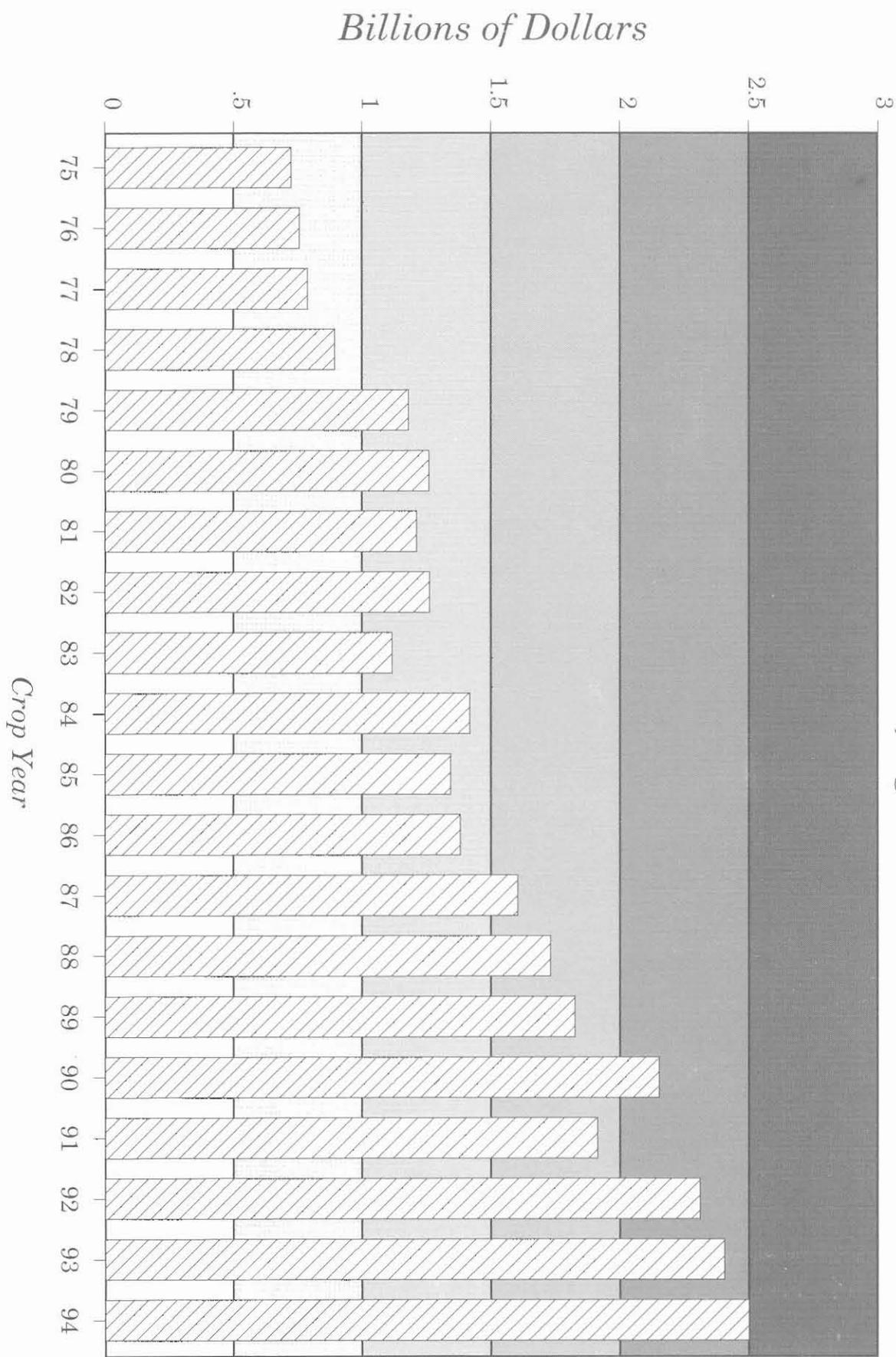
Millions of Dollars

History of Key Commodities



TULARE COUNTY

20 Years of Ag Income



1994 PRODUCE EXPORTS TOP TEN COUNTRIES

| <u>COUNTRY</u> | <u>PHYTOSANITARY CERTIFICATES ISSUED</u> | <u>CARTONS SHIPPED</u> |
|-------------------|--|------------------------|
| 1. Japan | 8,091 | 9,931,624 |
| 2. Taiwan | 2,145 | 2,521,260 |
| 3. Mexico | 1,284 | 2,059,670 |
| 4. Canada | 1,040 | 620,796 |
| 5. Philippines | 555 | 676,020 |
| 6. Australia | 442 | 338,540 |
| 7. New Zealand | 426 | 359,801 |
| 8. Indonesia | 292 | 360,370 |
| 9. United Kingdom | 281 | 594,642 |
| 10. Colombia | 197 | 166,092 |
| | | |
| TOTAL | 14,753 | 17,628,815 |

1994 COUNTRIES RECEIVING TULARE COUNTY PRODUCE

| | | | |
|------------------------|------------------|-----------------------|----------------------|
| American Samoa | Ecuador | Kuwait | Saint Lucia |
| Argentina | Egypt | Lebanon | Saudi Arabia |
| Aruba | El Salvador | Malaysia | Singapore |
| Australia | Fiji | Mexico | Slovenia |
| Bahamas | Finland | Myanmar | South Africa |
| Bahrain | France | Netherlands | Spain |
| Barbados | French Polynesia | Netherlands Antilles | Sri Lanka |
| Belgium | Germany | New Zealand | Sweden |
| Belize | Greece | Nicaragua | Switzerland |
| Bolivia | Grenada | Norway | Syria |
| Brazil | Guam | Panama | Taiwan |
| British Virgin Islands | Guatemala | Peoples Rep. of China | Thailand |
| Bulgaria | Guyana | Peru | Trinidad & Tobago |
| Canada | Honduras | Phillipines | Turkey |
| Chile | Hong Kong | Poland | United Arab Emirates |
| Colombia | Iceland | Portugal | United Kingdom |
| Costa Rica | India | Puerto Rico | Uruguay |
| Cyprus | Indonesia | Qatar | U. S. Virgin Islands |
| Czech Republic | Israel | Republic of Korea | Venezuela |
| Denmark | Italy | Russian Federation | Vietnam |
| Dominican Republic | Japan | Saint Kitts & Nevis | |

TULARE COUNTY SUSTAINABLE AGRICULTURAL REPORTING

| Pest | Agent/Mechanism | Program Scope |
|--|--|----------------------------------|
| COUNTY BIOLOGICAL CONTROL | | |
| Ash Whitefly <u>Siphoninus phillyreae</u> | Parasitic Wasp <u>Encarsia inaron</u> Ladybird Beetles <u>Cleitostethus arcuatus</u> | Upon demand 2 sites |
| Comstock Mealybug <u>Pseudococcus comstocki</u> | Parasitic Wasps <u>Pseudaphycus malinus</u> <u>Allotropa burrelli</u> | Upon demand |
| Cottony-Cushion Scale <u>Icerya purchasi</u> | Parasitic Fly <u>Cryptochetum iceryae</u> Vedalia Beetle <u>Rodolia cardinalis</u> | 3 sites 6 sites* |
| Italian Thistle <u>Carduus pycnocephalus</u> | Seed Head Weevil <u>Rhinocylus conicus</u> | 3 sites |
| Milk Thistle <u>Silybum marianum</u> | Seed Head Weevil <u>Rhinocylus conicus</u> | Upon demand |
| Mulberry Whitefly <u>Tetraleurodes mori</u> | Ladybird Beetle <u>Delphastus pusillus</u> | 3 sites |
| Puncture Vine <u>Tribulus terrestris</u> | Seed & Stem Weevils <u>Microlarinus lareynii</u> <u>Microlarinus lypriformis</u> | Upon demand |
| Russian Thistle <u>Salsola australis</u> | Casebearer Moth <u>Coleophora klimeschiella</u> | 1 site |
| Western Grapeleaf Skeletonizer <u>Harrisina brillians</u> | Virus collection for CDFA Biological Control Lab | 3 sites |
| Yellow Star Thistle <u>Centaurea solstitialis</u> | Flower Head Weevil <u>Bangasternus orientalis</u> Hairy Weevil <u>Eustenopus villosus</u> Gall Fly <u>Urophora sirunaseva</u> | 2 sites 1 site 2 sites |
| COUNTY PEST ERADICATION | | |
| Pink Bollworm <u>Pectinophora gossypiella</u> | Mechanical/Host Free Period | 139,800 acres 2 growers cited |
| COUNTY PEST EXCLUSION | | |
| Mexican Fruit Fly <u>Anastrepha ludens</u> | Retail/Wholesale | 4 rejections/ destroyed |
| Citrus Tristeza Virus | Retail/Wholesale | 2 rejections/ destroyed |

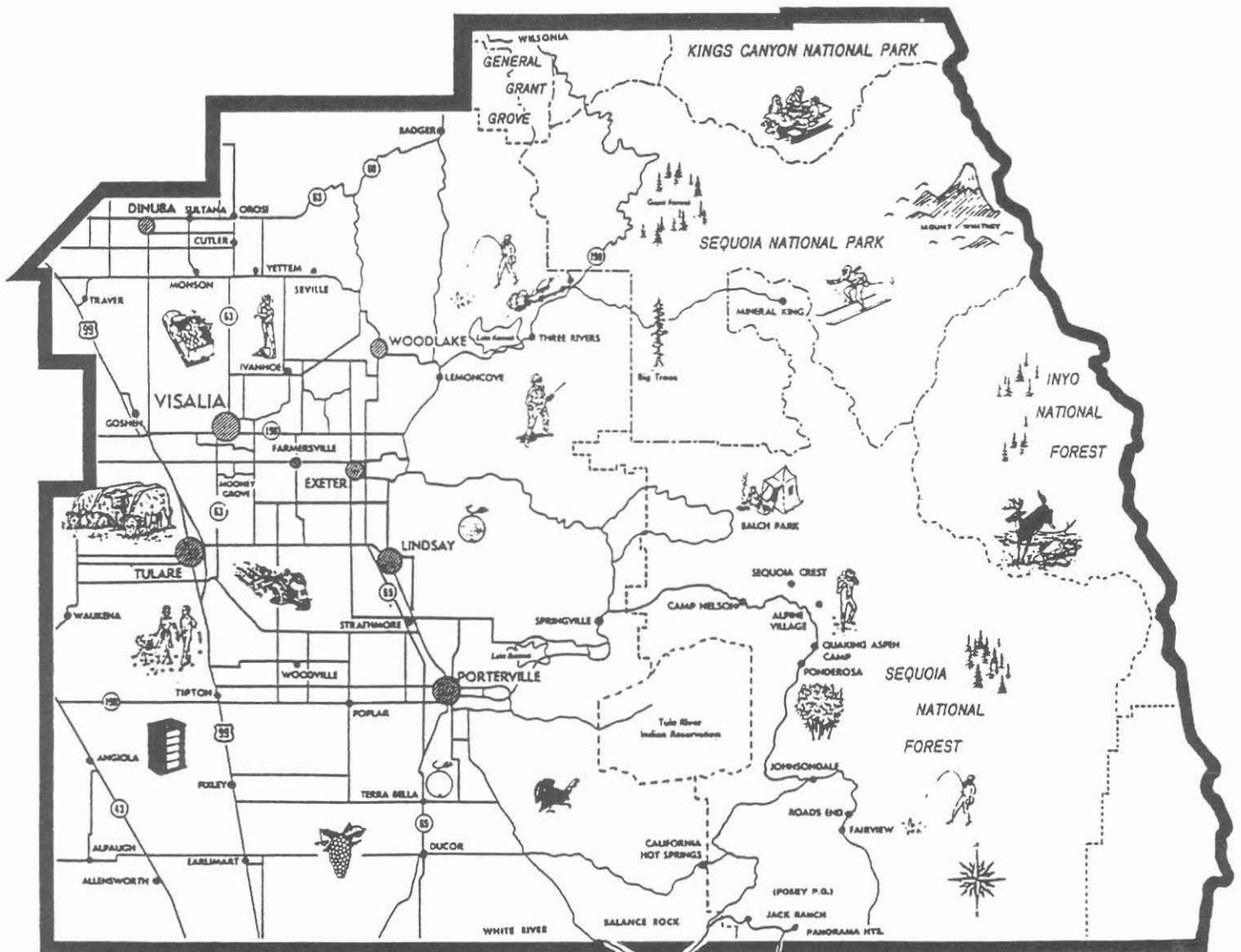
* 600 collected for National Zoo, Washington D.C.

ORGANIC FARMING STATISTICS

| Crops | Estimated Acres |
|--|-----------------|
| Citrus, Grapes, Herbs, Kiwifruit, and Tree Fruit | 3,000 |

TULARE COUNTY PROFILE

| | |
|---------------------------------|------------------------------------|
| Square Miles: | 4,935 or 3,158,400 Acres |
| Highest Point: | 14,495 Feet, Mt. Whitney |
| Lowest Point: | 193 Feet, located West of Alpaugh |
| Population: | 1980 - 234,843 1991 - 330,000 |
| Climate: | Mediterranean |
| Rainy Season: | October through April |
| Precipitation (inches) Average: | 10.15 Annually |
| | Jan. Apr. Jul. Oct. |
| | 1.77 0.99 0.01 0.59 |
| Average Farm Size: | 239 Acres |
| Number of Farms: | 5,911 |
| Landholdings by Foreign Owners: | 79 Parcels Totaling 15,900 Acres |



DISTANCES FROM THE CENTER OF TULARE COUNTY TO:

| | | | | | | | |
|---------------|-----------|--------------------|-----------|-------------|----------|------------|-----------|
| Sacramento | 212 Miles | Los Angeles | 185 Miles | Fresno | 45 Miles | Yosemite | |
| San Francisco | 225 Miles | Sequoia Nat'l Park | 52 Miles | Bakersfield | 72 Miles | Nat'l Park | 141 Miles |

A SPECIAL THANK YOU

The high quality printing of the 1994 Tulare County Agricultural Crop and Livestock Report was made possible by the generous contributions of the Walnut Growers and handlers listed below. Without their support the publication of such a report would not have been possible.

Berberian Nut Company
A Conagra Company
1503 South Fresno Avenue
Stockton, California 95206

Crain Ranch
10660 Bryne Avenue
Los Molinos, California 96055

Diamond Walnut Growers
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Stockton, California 95201

Frazier Nut Farms, Inc.
10830 Yosemite Blvd.
Waterford, California 95386
c/o Jack Adams,
Local Field Representative
P. O. Box 3607
Poplar, California 93258
1-209-784-8243

Greenleaf Farms, Inc.
1665 Marion Street
Kingsburg, California 93631

Poindexter Walnut Company
5414 East Floral Avenue
Selma, California 93662

J. B. Sanfillipo & Son
29241 West Cottonwood Road
Gustine, California 95322

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615 North Ben Maddox
Visalia, California 93291