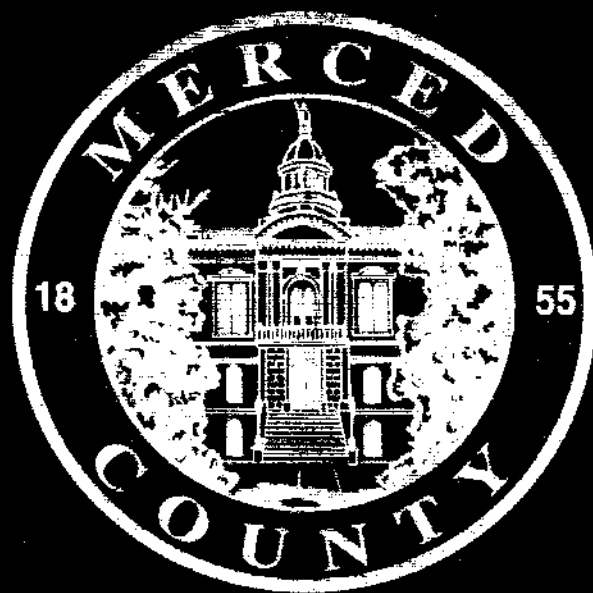


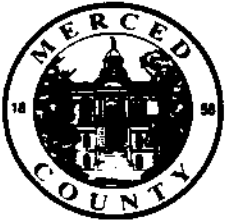
ANNUAL REPORT OF AGRICULTURE



1993

**MERCED COUNTY DEPARTMENT OF AGRICULTURE
MERCED, CALIFORNIA**

MICHAEL J. TANNER, Agricultural Commissioner
GARY CASEKI, Assistant Agricultural Commissioner



DEPARTMENT OF AGRICULTURE

AGRICULTURAL COMMISSIONER • WEIGHTS AND MEASURES • ANIMAL CONTROL

2139 Wardrobe Avenue
Merced, California 95340-6495
Telephone (209) 385-7431

MICHAEL J. TANNER
Agricultural Commissioner
Director of Weights and Measures
Director of Animal Control

GARY CASERI
Assistant Agricultural Commissioner

TO: HENRY J. VOSS, SECRETARY, CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE AND THE HONORABLE BOARD OF SUPERVISORS OF MERCED COUNTY:

JERRY O'BANION, CHAIRMAN
GLORIA CORTEZ KEENE
ANN KLINGER

MIKE BOGNA
DEAN PETERSON

I am extremely pleased to submit the 1993 Agricultural Crop Report and the Sustainable Agriculture Report as required by Sections 2279 and 2272 of the California Food and Agriculture Code.

It is with pride that I announce a Merced County all-time record of \$1,202,632,000 for gross agricultural production value. This is \$132,451,000 higher (12.4%) than last year's \$1,070,181,000, and the fifth year in a row of over one billion dollars in value. Mother nature, which we have little control over, was very good to agriculture in 1993. The six year drought officially ended, giving us more than adequate water supplies while filling most reservoirs Statewide. The exception to required water needs for County agriculture being those growers receiving water under State or Federal contracts. Weather throughout the year was almost perfect for maximum production of most crops. Rains in the Spring, during bloom of some crops, did reduce production in a few areas. The Fall harvest season for late maturing crops was warmer and drier than usual, which helped bring them in without losses.

Almonds, for the second straight year, gained more in value than all other commodities produced and moved to the number two ranking for the first time since 1979. Value was up 64% to \$175,263,000 due to a \$0.61 per pound higher price, production up 40 pounds per acre, and acreage up 7%.

Milk continues to hold a firm grip as the number one agricultural commodity in the County. For the first time, it has topped \$300 million at \$311,501,000. This is up \$16,736,000 due to a production increase of 7.1%, however, price was down slightly. Sweet potatoes rebounded after last year's decline, to \$38,294,000, up \$8,684,000, as price was 35% higher, production up 17%, but acreage down 18.5%. Alfalfa hay made a strong showing, up \$8,409,000 to \$54,378,000, as price increased \$21 per ton, but production was slightly down.

Increased value of significance was also realized in other melons, silage corn, cotton, nursery products, walnuts, processing tomatoes, clingstone peaches, and market tomatoes.

For the third year in a row, chicken fryers and broilers plunged in value to \$102,609,000, losing \$8,196,000, as 10,338,000 fewer birds were produced, even though price was up 8.4%. This dropped chickens to the number three position of leading commodities. Turkeys also showed a big loss at \$26,750,000, a decline of \$4,171,000 due to a 21% drop in production, but price was up 5.9%. The only other commodity showing a significant decrease in value was bellpeppers.

Of the 76 commodity categories reported in this report, 56 had values over one million dollars.

This report addresses the acreage, production and gross value of agricultural production in Merced County. It does not attempt to reflect net farm income or costs of production and marketing. This report also emphasizes an average production and average value of gross receipts. Value is based on farmgate prices except for fresh packed commodities which reflect an FOB, freight on board, price.

I want to express my sincere appreciation to those persons who have provided the information and assistance necessary for my staff to compile this report under the direction of Loyd McCollum, Agricultural Biologist III. My thanks to the growers and industry members of Merced County who truly make AGRICULTURE our number one and most valued industry.

Respectfully submitted,

Michael J. Tanner
Michael J. Tanner
Agricultural Commissioner

DISTRICT OFFICE: 342 "D" Street, Los Banos, CA 93635 (209) 827-2030
ANIMAL CONTROL: 2080 Grogan Avenue, Merced, CA 95340 (209) 725-3647

AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER

TABLE OF CONTENTS

| | |
|--|---------|
| FIELD CROPS | Page 1 |
| NURSERY PRODUCTS | Page 2 |
| OTHER AGRICULTURE | Page 2 |
| CERTIFIED SEED AND OTHER SEED CROPS | Page 3 |
| VEGETABLE CROPS | Page 4 |
| FRUIT AND NUT CROPS | Page 5 |
| FRUIT AND NUT ACREAGE PLANTING | Page 6 |
| LIVESTOCK AND POULTRY PRODUCTS | Page 7 |
| BEE INDUSTRY | Page 7 |
| LIVESTOCK AND POULTRY | Page 8 |
| AQUACULTURE | Page 8 |
| PERCENTAGE COMPARISON CHART | Page 9 |
| GOVERNMENT PAYMENTS | Page 9 |
| CROPS NOT HARVESTED | Page 9 |
| COMMODITY VALUE CROP COMPARISON SUMMARY | Page 10 |
| TWELVE LEADING FARM COMMODITIES | Page 10 |
| SUSTAINABLE AGRICULTURE - BIOLOGICAL CONTROL | Page 11 |
| SUSTAINABLE AGRICULTURE - PEST EXCLUSION | Page 12 |
| SUSTAINABLE AGRICULTURE - ORGANIC FARMING | Page 12 |

FIELD CROPS ACREAGE, PRODUCTION AND VALUE 1993-1992

| CROPS | YEAR | ACREAGE HARVESTED | PRODUCTION | | | VALUE | |
|-------------------------|------|----------------------|------------|-----------|--------------|----------|---------------|
| | | | PER ACRE | TOTAL | UNIT | PER UNIT | TOTAL |
| BARLEY | 1993 | 6,590 | 2.06 | 13,580 | Ton | \$101.00 | \$ 1,372,000 |
| | 1992 | 5,390 | 1.84 | 9,900 | Ton | \$110.00 | \$ 1,089,000 |
| BEANS (Dry Lima) | 1993 | 2,850 | 1.24 | 3,530 | Ton | \$709.00 | \$ 2,503,000 |
| | 1992 | 3,970 | 1.29 | 5,120 | Ton | \$472.00 | \$ 2,417,000 |
| BEANS (Dry Other) | 1993 | 2,900 | .99 | 2,870 | Ton | \$675.00 | \$ 1,937,000 |
| | 1992 | 3,610 | 1.11 | 4,010 | Ton | \$500.00 | \$ 2,005,000 |
| CORN (Grain) | 1993 | 5,540 | 4.98 | 27,600 | Ton | \$126.00 | \$ 3,478,000 |
| | 1992 | 6,620 | 4.42 | 29,300 | Ton | \$130.00 | \$ 3,809,000 |
| COTTON (Lint) | 1993 | 79,200 | 1,355 Lbs. | 215,000 | 500 Lb. Bale | \$355.00 | \$76,325,000 |
| | 1992 | 76,500 | 1,394 Lbs. | 213,000 | 500 Lb. Bale | \$340.00 | \$72,420,000 |
| COTTON (Seed) | 1993 | ---- | ---- | 75,300 | Ton | \$170.00 | \$12,801,000 |
| | 1992 | ---- | ---- | 80,000 | Ton | \$140.00 | \$11,200,000 |
| HAY (Alfalfa) | 1993 | 70,900 | 6.61 | 469,000 | Ton | \$109.00 | \$51,121,000 |
| | 1992 | 69,300 | 6.92 | 480,000 | Ton | \$ 88.00 | \$42,240,000 |
| HAY (Alfalfa-Cube) | 1993 | 4,320 | 6.40 | 27,600 | Ton | \$118.00 | \$ 3,257,000 |
| | 1992 | 5,140 | 6.60 | 33,900 | Ton | \$110.00 | \$ 3,729,000 |
| HAY (Grain) | 1993 | 18,200 | 3.14 | 57,100 | Ton | \$ 62.40 | \$ 3,563,000 |
| | 1992 | 25,100 | 3.17 | 79,600 | Ton | \$ 49.10 | \$ 3,908,000 |
| HAY (Sudan) | 1993 | 690 | 7.75 | 5,300 | Ton | \$ 60.00 | \$ 318,000 |
| | 1992 | 780 | 4.00 | 3,120 | Ton | \$ 45.00 | \$ 140,000 |
| OATS (Grain) | 1993 | 2,700 | 1.33 | 3,590 | Ton | \$165.00 | \$ 592,000 |
| | 1992 | 3,520 | 1.36 | 4,800 | Ton | \$125.00 | \$ 600,000 |
| PASTURE (Irrigated) | 1993 | 80,000 | ---- | ---- | Acre | \$120.00 | \$ 9,600,000 |
| | 1992 | 80,000 | ---- | ---- | Acre | \$120.00 | \$ 9,600,000 |
| PASTURE (Other) | 1993 | 553,000 | ---- | ---- | Acre | \$ 15.00 | \$ 8,295,000 |
| | 1992 | 555,000 | ---- | ---- | Acre | \$ 15.00 | \$ 8,325,000 |
| RICE | 1993 | 4,390 | 4.08 | 17,900 | Ton | \$165.00 | \$ 2,954,000 |
| | 1992 | 2,516 | 3.86 | 9,700 | Ton | \$171.00 | \$ 1,659,000 |
| SAFFLOWER | 1993 | 3,760 | 1.00 | 3,760 | Ton | \$306.00 | \$ 1,151,000 |
| | 1992 | 3,280 | .91 | 3,000 | Ton | \$278.00 | \$ 834,000 |
| SILAGE (Corn) | 1993 | 45,000 | 24.81 | 1,116,000 | Ton | \$ 19.37 | \$21,617,000 |
| | 1992 | 44,800 | 23.89 | 1,070,000 | Ton | \$ 16.54 | \$17,698,000 |
| SILAGE * (Other) | 1993 | 47,300 | 12.21 | 578,000 | Ton | \$ 18.70 | \$10,809,000 |
| | 1992 | 47,500 | 12.28 | 583,000 | Ton | \$ 14.34 | \$ 8,360,000 |
| SORGHUM (Grain) | 1993 | 60 | 2.27 | 136 | Ton | \$ 97.33 | \$ 13,000 |
| | 1992 | 170 | 2.53 | 430 | Ton | \$106.00 | \$ 46,000 |
| STRAW | 1993 | ---- | ---- | 2,000 | Ton | \$ 35.00 | \$ 70,000 |
| | 1992 | ---- | ---- | 1,900 | Ton | \$ 28.00 | \$ 53,000 |
| STUBBLE ** (Pasture) | 1993 | 9,700 | ---- | ---- | Acre | \$ 10.00 | \$ 97,000 |
| | 1992 | 9,800 | ---- | ---- | Acre | \$ 10.00 | \$ 98,000 |
| SUGAR BEETS | 1993 | 8,900 | 27.63 | 246,000 | Ton | \$ 39.97 | \$ 9,833,000 |
| | 1992 | 6,600 | 27.84 | 184,000 | Ton | \$ 39.31 | \$ 7,233,000 |
| WHEAT | 1993 | 11,850 | 2.63 | 31,200 | Ton | \$100.00 | \$ 3,120,000 |
| | 1992 | 11,410 | 2.48 | 28,300 | Ton | \$114.00 | \$ 3,226,000 |
| TOTAL | 1993 | 948,150 | | | | | \$224,826,000 |
| | 1992 | 951,206 | | | | | \$200,689,000 |

* Includes Alfalfa, Barley, Earlage, Oats, Rye, Sorghum, Sudan, Wheat and Winter Forage.
 ** Includes Alfalfa, Barley, Oats and Wheat. Stubble pasture not included in total acreage.

**NURSERY PRODUCTS
PRODUCTION ACREAGE, SALES AND VALUE 1993-1992**

| | YEAR | ACREAGE | TOTAL |
|-------|------|---------|---------------|
| TOTAL | 1993 | 1,300 | \$ 14,603,000 |
| | 1992 | 1,195 | \$ 11,212,000 |

Includes Budwood, Pits and Cuttings; Citrus, Deciduous Fruit and Nut Trees; Dried Flowers, Grapevines; Greenhouse Plants; Roses; Strawberry Plants, Tomato and Other Vegetable Plants; Semi-Tropical Ornamental and Shade Trees; Shrubs; Ornamental Plants, and Christmas Trees. The separate production and value are not shown to avoid disclosing individual operations.

**OTHER AGRICULTURE
PRODUCTION AND VALUE 1993-1992**

| ITEM | YEAR | PRODUCTION | UNIT | PER UNIT | TOTAL |
|--------------------------|------|------------|-------|----------|--------------|
| FIREWOOD | 1993 | 19,600 | Cords | \$82.00 | \$ 1,607,000 |
| | 1992 | 20,000 | Cords | \$80.00 | \$ 1,600,000 |
| FUEL * (Cogeneration) | 1993 | 129,000 | Tons | \$23.69 | \$ 3,056,000 |
| | 1992 | 99,400 | Tons | \$23.19 | \$ 2,305,000 |
| MANURE ** | 1993 | 906,000 | Tons | \$ 5.01 | \$ 4,539,000 |
| | 1992 | 1,028,000 | Tons | \$ 4.86 | \$ 4,996,000 |
| TOTAL | 1993 | | | | \$ 9,202,000 |
| | 1992 | | | | \$ 8,901,000 |

* Almond Shells, Orchard Prunings, Orchard Removal (Recorded in Wet Tons)

** Livestock, Poultry

SEED CROPS ACREAGE AND VALUE 1993-1992

CERTIFIED SEED CROPS

| CROPS | YEAR | ACREAGE HARVESTED | PRODUCTION | | | VALUE | |
|-----------------|-------------|----------------------|------------|-------|------|----------|-------------------|
| | | | PER ACRE | TOTAL | UNIT | PER UNIT | TOTAL |
| SEED CROPS * | 1993 | 564 | --- | --- | --- | --- | \$ 290,000 |
| (Miscellaneous) | 1992 | 679 | --- | --- | --- | --- | \$ 331,000 |
| TOTAL | 1993 | 564 | | | | | \$ 290,000 |
| | 1992 | 679 | | | | | \$ 331,000 |

NON-CERTIFIED SEED CROPS

| CROPS | YEAR | ACREAGE HARVESTED | PRODUCTION | | | VALUE | |
|-----------------|-------------|----------------------|------------|-------|------|----------|---------------------|
| | | | PER ACRE | TOTAL | UNIT | PER UNIT | TOTAL |
| SEED CROPS ** | 1993 | 2,740 | --- | --- | --- | --- | \$ 919,000 |
| (Miscellaneous) | 1992 | 4,210 | --- | --- | --- | --- | \$ 1,395,000 |
| TOTAL | 1993 | 2,740 | | | | | \$ 919,000 |
| | 1992 | 4,210 | | | | | \$ 1,395,000 |

ALL SEED CROPS

| | YEAR | ACREAGE HARVESTED | TOTAL |
|--------------|-------------|----------------------|---------------------|
| TOTAL | 1993 | 3,304 | \$ 1,209,000 |
| | 1992 | 4,889 | \$ 1,726,000 |

* Includes certified seed from Rice and Wheat.

** Includes common seed from Barley, Beans, Cabbage, Carrot, Cauliflower, Cucumber, Endive, Lettuce, Melons, Oats, Onions, Pepper, Rye, Squash, Turnips, and Wheat.

VEGETABLE CROPS ACREAGE, PRODUCTION AND VALUE 1993-1992

| CROPS | YEAR | ACREAGE HARVESTED | PRODUCTION | | UNIT | VALUE | |
|---------------------------------|------|----------------------|------------|-----------|-------------|----------|---------------|
| | | | PER ACRE | TOTAL | | PER UNIT | TOTAL |
| BEANS, LIMA (Freezer) | 1993 | 2,580 | 1.70 | 4,390 | Ton | \$400.00 | \$ 1,756,000 |
| | 1992 | 1,475 | 1.70 | 2,500 | Ton | \$406.00 | \$ 1,015,000 |
| MELONS (Cantaloupe) | 1993 | 11,200 | 360 | 4,032,000 | 40 Lb. Ctn. | \$ 4.26 | \$17,176,000 |
| | 1992 | 9,420 | 358 | 3,372,000 | 40 Lb. Ctn. | \$ 5.08 | \$17,130,000 |
| MELONS (Watermelon) | 1993 | 1,170 | 16.67 | 19,500 | Ton | \$ 97.00 | \$ 1,892,000 |
| | 1992 | 1,080 | 16.17 | 17,500 | Ton | \$ 80.00 | \$ 1,400,000 |
| MELONS (Other) | 1993 | 3,200 | 7.73 | 24,700 | Ton | \$287.00 | \$ 7,089,000 |
| | 1992 | 1,510 | 10.10 | 15,300 | Ton | \$151.00 | \$ 2,310,000 |
| PEAS (Freezer) | 1993 | 210 | 1.50 | 320 | Ton | \$254.00 | \$ 81,000 |
| | 1992 | 990 | 1.23 | 1,200 | Ton | \$270.00 | \$ 324,000 |
| PEPPERS, BELL (Market) | 1993 | 600 | 12.84 | 7,700 | Ton | \$409.00 | \$ 3,149,000 |
| | 1992 | 715 | 16.93 | 12,100 | Ton | \$367.00 | \$ 4,441,000 |
| PEPPERS (Processing) | 1993 | ---- | ---- | 300 | Ton | \$210.00 | \$ 63,000 |
| | 1992 | ---- | ---- | 869 | Ton | \$209.00 | \$ 182,000 |
| SWEET POTATOES | 1993 | 5,500 | 12.23 | 67,300 | Ton | \$569.00 | \$38,294,000 |
| | 1992 | 6,745 | 10.45 | 70,500 | Ton | \$420.00 | \$29,610,000 |
| TOMATOES (Market) | 1993 | 7,430 | 1068 | 7,935,000 | 25 Lb. Ctn. | \$ 4.42 | \$35,073,000 |
| | 1992 | 6,630 | 911 | 6,040,000 | 25 Lb. Ctn. | \$ 5.37 | \$32,435,000 |
| TOMATOES (Processing) | 1993 | 10,900 | 34.81 | 379,000 | Ton | \$ 48.47 | \$18,370,000 |
| | 1992 | 9,600 | 34.75 | 334,000 | Ton | \$ 46.75 | \$15,615,000 |
| VEGETABLES * (Miscellaneous) | 1993 | 3,560 | ---- | ---- | --- | ---- | \$ 7,106,000 |
| | 1992 | 3,914 | ---- | ---- | --- | ---- | \$ 6,909,000 |
| TOTAL | 1993 | 46,350 | | | | | \$130,049,000 |
| | 1992 | 42,079 | | | | | \$111,371,000 |

* Includes Broccoli, Cabbage, Cauliflower, Chili Peppers, Cucumber, Eggplant, Garlic, Onions, Oriental Vegetables, Processed Melons, Popcorn, Pumpkin, Radicchio, String Beans, Sweet Corn, Squash, Asparagus, and Dried Tomatoes.

FRUIT AND NUT CROPS ACREAGE, PRODUCTION AND VALUE 1993-1992

| CROPS | YEAR | ACREAGE HARVESTED | PRODUCTION | | UNIT | VALUE | |
|--|------|----------------------|------------|---------|------|------------|---------------|
| | | | PER ACRE | TOTAL | | PER UNIT | TOTAL |
| ALMONDS (Kernel Basis) | 1993 | 66,519 | .70 | 46,600 | Ton | \$3,761.00 | \$175,263,000 |
| | 1992 | 61,950 | .68 | 42,100 | Ton | \$2,538.00 | \$106,850,000 |
| ALMONDS (Bulls) | 1993 | ---- | ---- | 97,900 | Ton | \$ 67.60 | \$ 6,618,000 |
| | 1992 | ---- | ---- | 84,200 | Ton | \$ 51.10 | \$ 4,303,000 |
| APRICOTS | 1993 | 1,997 | 5.77 | 11,500 | Ton | \$ 289.00 | \$ 3,324,000 |
| | 1992 | 1,579 | 5.25 | 8,300 | Ton | \$ 313.00 | \$ 2,598,000 |
| FIGS (Dry) | 1993 | 3,345 | 1.24 | 4,150 | Ton | \$1,654.00 | \$ 6,864,000 |
| | 1992 | 3,315 | 1.25 | 4,140 | Ton | \$1,746.00 | \$ 7,228,000 |
| GRAPES (Raisin) | 1993 | 1,190 | 1.78 | 2,100 | Ton | \$1,000.00 | \$ 2,100,000 |
| | 1992 | 882 | 2.11 | 1,860 | Ton | \$ 999.00 | \$ 1,858,000 |
| GRAPES (Raisin to Wine) | 1993 | 310 | 9.47 | 2,940 | Ton | \$ 134.00 | \$ 394,000 |
| | 1992 | 654 | 10.48 | 6,850 | Ton | \$ 175.00 | \$ 1,199,000 |
| GRAPES (Wine) | 1993 | 12,838 | 8.87 | 114,000 | Ton | \$ 242.00 | \$ 27,588,000 |
| | 1992 | 11,331 | 9.56 | 108,000 | Ton | \$ 241.00 | \$ 26,028,000 |
| KIWI | 1993 | 37 | 6.57 | 243 | Ton | \$1,414.00 | \$ 344,000 |
| | 1992 | 37 | 7.60 | 281 | Ton | \$1,286.00 | \$ 361,000 |
| NECTARINES | 1993 | 203 | 11.34 | 2,300 | Ton | \$ 769.00 | \$ 1,769,000 |
| | 1992 | 164 | 10.98 | 1,800 | Ton | \$ 655.00 | \$ 1,179,000 |
| PEACHES (Clingstone) | 1993 | 4,049 | 17.79 | 72,000 | Ton | \$ 220.00 | \$ 15,840,000 |
| | 1992 | 3,469 | 17.16 | 59,500 | Ton | \$ 220.00 | \$ 13,090,000 |
| PEACHES (Freestone) | 1993 | 1,667 | 17.46 | 29,100 | Ton | \$ 184.00 | \$ 5,354,000 |
| | 1992 | 1,580 | 17.96 | 28,400 | Ton | \$ 217.00 | \$ 6,163,000 |
| PISTACHIOS | 1993 | 4,133 | .91 | 3,760 | Ton | \$2,878.00 | \$ 10,821,000 |
| | 1992 | 3,632 | 1.07 | 3,890 | Ton | \$2,394.00 | \$ 9,313,000 |
| PLUMS | 1993 | 180 | 3.86 | 695 | Ton | \$ 432.00 | \$ 300,000 |
| | 1992 | 205 | 3.19 | 654 | Ton | \$ 334.00 | \$ 218,000 |
| PRUNES | 1993 | 2,096 | 1.54 | 3,230 | Ton | \$1,065.00 | \$ 3,440,000 |
| | 1992 | 2,068 | 1.43 | 2,960 | Ton | \$ 998.00 | \$ 2,954,000 |
| WALNUTS (English) | 1993 | 6,435 | 1.54 | 9,910 | Ton | \$1,500.00 | \$ 14,865,000 |
| | 1992 | 6,806 | 1.32 | 8,980 | Ton | \$1,340.00 | \$ 12,033,000 |
| MISCELLANEOUS FROZEN FRUIT (Berries, Grapes) | 1993 | ---- | ---- | 3,850 | Ton | \$ 626.00 | \$ 2,410,000 |
| | 1992 | ---- | ---- | 3,540 | Ton | \$ 594.00 | \$ 2,103,000 |
| MISCELLANEOUS * | 1993 | 4,352 | ---- | ---- | --- | ---- | \$ 12,917,000 |
| | 1992 | 3,936 | ---- | ---- | --- | ---- | \$ 11,663,000 |
| TOTAL | 1993 | 109,351 | | | | | \$290,211,000 |
| | 1992 | 101,674 | | | | | \$209,267,000 |

* Includes Apples, Fresh Berries, Cherries, Citrus, Pecans, Pears, Persimmons, Table Grapes, Cannery Figs, Olives, and Fresh Peaches.

FRUIT AND NUT ACREAGE PLANTING 1993-1988

| CROPS | YEAR 1993 | | YEAR 1988 | |
|----------------------|----------------|--------------|----------------|--------------|
| | BEARING | NON-BEARING | BEARING | NON-BEARING |
| ALMONDS | 66,519 | 4,325 | 63,758 | 3,787 |
| APPLES | 2,744 | 227 | 1,694 | 907 |
| APRICOTS | 1,997 | 103 | 1,427 | 180 |
| BERRIES | 135 | 65 | 78 | 44 |
| CHERRIES | 173 | 182 | 142 | 12 |
| FIGS | 3,345 | --- | 4,225 | 3 |
| GRAPES (Raisin) | 1,741 | 9 | 2,247 | --- |
| GRAPES (Table) | 243 | --- | 218 | 20 |
| GRAPES (Wine) | 12,838 | 451 | 13,875 | 557 |
| KIWI | 37 | --- | 43 | --- |
| MANDARINS | 30 | 11 | --- | --- |
| NECTARINES | 203 | 19 | 216 | 12 |
| OLIVES | 74 | --- | 73 | --- |
| ORANGES | 48 | --- | 55 | --- |
| PEACHES (Clingstone) | 4,049 | 277 | 3,601 | 642 |
| PEACHES (Freestone) | 1,667 | 413 | 1,706 | 168 |
| PEARS | 18 | 3 | 14 | 17 |
| PECANS | 42 | 2 | 58 | --- |
| PERSIMMONS | 14 | --- | 13 | --- |
| PISTACHIOS | 4,133 | 55 | 3,678 | 589 |
| PLUMS | 180 | 22 | 247 | 48 |
| POMEGRANATES | 2 | --- | 2 | --- |
| PRUNES | 2,096 | 228 | 1,657 | 39 |
| WALNUTS (Black) | 1 | --- | 6 | --- |
| WALNUTS (English) | 6,435 | 705 | 7,618 | 897 |
| TOTAL | 108,764 | 7,097 | 106,651 | 7,922 |

LIVESTOCK AND POULTRY PRODUCTS 1993-1992

| ITEM | YEAR | PRODUCTION | UNIT | VALUE | |
|---------------------------|------|------------|------|----------|---------------|
| | | | | PER UNIT | TOTAL |
| EGGS, CHICKEN (Market) | 1993 | 36,781,000 | Doz. | \$ 0.51 | \$ 18,758,000 |
| | 1992 | 38,342,000 | Doz. | \$ 0.48 | \$ 18,404,000 |
| EGGS (Hatching) | 1993 | 9,376,000 | Each | \$ 0.65 | \$ 6,094,000 |
| | 1992 | 6,840,000 | Each | \$ 0.66 | \$ 4,514,000 |
| MILK (Goat) | 1993 | 19,000 | Cwt. | \$25.37 | \$ 482,000 |
| | 1992 | 14,100 | Cwt. | \$25.37 | \$ 358,000 |
| MILK (Market) | 1993 | 26,013,000 | Cwt. | \$11.44 | \$297,589,000 |
| | 1992 | 24,179,000 | Cwt. | \$11.61 | \$280,718,000 |
| MILK (Manufacturing) | 1993 | 1,259,000 | Cwt. | \$11.05 | \$ 13,912,000 |
| | 1992 | 1,284,000 | Cwt. | \$10.94 | \$ 14,047,000 |
| WOOL | 1993 | 379,000 | Lb. | \$ 0.53 | \$ 201,000 |
| | 1992 | 420,000 | Lb. | \$ 0.75 | \$ 315,000 |
| TOTAL | 1993 | | | | \$337,036,000 |
| | 1992 | | | | \$318,356,000 |

BEE INDUSTRY 1993-1992

| ITEM | YEAR | PRODUCTION | UNIT | VALUE | |
|-----------------|------|------------|--------|----------|-------------|
| | | | | PER UNIT | TOTAL |
| BEESWAX | 1993 | 16,000 | Lb. | \$ 1.50 | \$ 24,000 |
| | 1992 | 17,900 | Lb. | \$ 1.23 | \$ 22,000 |
| BULK BEES * | 1993 | 15,500 | Lb. | \$ 4.50 | \$ 70,000 |
| | 1992 | 7,500 | Lb. | \$ 4.00 | \$ 30,000 |
| HONEY ** | 1993 | 1,744,000 | Lb. | \$0.487 | \$ 849,000 |
| | 1992 | 1,189,000 | Lb. | \$0.514 | \$ 611,000 |
| POLLINATION *** | 1993 | 149,000 | Colony | \$28.52 | \$4,249,000 |
| | 1992 | 139,000 | Colony | \$28.44 | \$3,953,000 |
| QUEENS | 1993 | 3,800 | Each | \$ 6.00 | \$ 23,000 |
| | 1992 | 2,500 | Each | \$ 6.00 | \$ 15,000 |
| TOTAL | 1993 | | | | \$5,215,000 |
| | 1992 | | | | \$4,631,000 |

* Includes bees sold as nuclei.

** Honey produced by 32,000 colonies in 1993 and 35,700 colonies in 1992 owned by resident beekeepers.

*** Pollination colonies include all required to pollinate crops grown in Merced County.

LIVESTOCK AND POULTRY PRODUCTION AND VALUE 1993-1992

| ITEM | YEAR | NUMBER OF HEAD | LIVWEIGHT | UNIT | VALUE | |
|-----------------------------------|------|-------------------|-------------|------|----------|---------------|
| | | | | | PER UNIT | TOTAL |
| CATTLE AND CALVES | 1993 | 110,700 | 803,000 | Cwt. | \$59.85 | \$ 48,060,000 |
| | 1992 | 114,500 | 827,000 | Cwt. | \$59.00 | \$ 48,793,000 |
| CHICKENS (Fryers and Broilers) | 1993 | 64,177,000 | 317,676,000 | Lb. | \$0.323 | \$102,609,000 |
| | 1992 | 74,515,000 | 371,830,000 | Lb. | \$0.298 | \$110,805,000 |
| CHICKENS (Other) | 1993 | 1,047,000 | 5,863,000 | Lb. | \$0.211 | \$ 1,237,000 |
| | 1992 | 1,032,000 | 4,407,000 | Lb. | \$0.164 | \$ 723,000 |
| GOATS | 1993 | 1,460 | ---- | Each | \$65.00 | \$ 95,000 |
| | 1992 | 1,200 | ---- | Each | \$62.00 | \$ 74,000 |
| BOGS AND PIGS | 1993 | 60,000 | 99,000 | Cwt. | \$63.50 | \$ 6,287,000 |
| | 1992 | 45,900 | 101,200 | Cwt. | \$56.60 | \$ 5,728,000 |
| POULTRY * (Miscellaneous) | 1993 | 61,000 | 122,000 | Lb. | \$ 3.19 | \$ 389,000 |
| | 1992 | 75,000 | 150,000 | Lb. | \$ 2.96 | \$ 444,000 |
| SHEEP AND LAMBS | 1993 | 57,000 | 62,000 | Cwt. | \$57.15 | \$ 3,543,000 |
| | 1992 | 58,700 | 69,000 | Cwt. | \$63.00 | \$ 4,347,000 |
| TURKEYS | 1993 | 3,263,000 | 67,381,000 | Lb. | \$0.397 | \$ 26,750,000 |
| | 1992 | 4,129,000 | 82,456,000 | Lb. | \$0.375 | \$ 30,921,000 |
| TOTAL | 1993 | | | | | \$188,970,000 |
| | 1992 | | | | | \$201,835,000 |

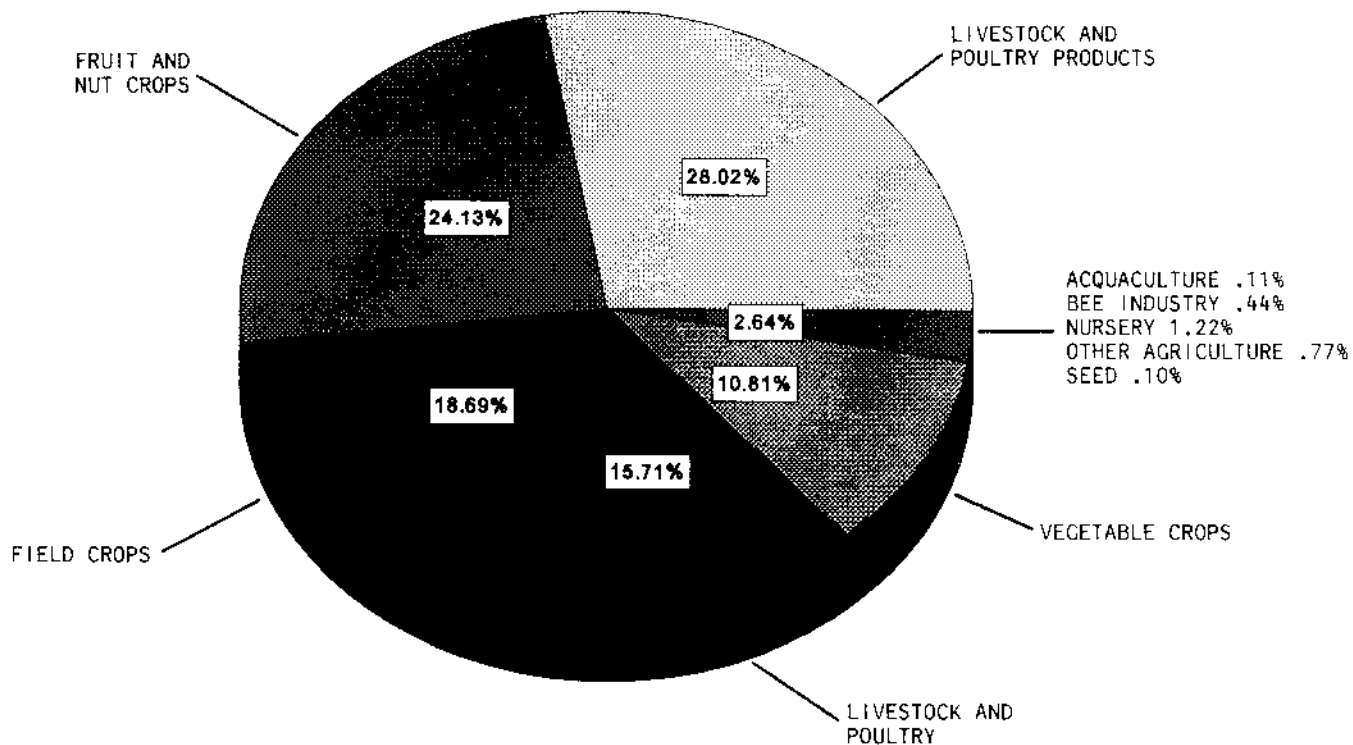
* Chucker, Pheasant, Squab

AQUACULTURE PRODUCTION AND VALUE 1993-1992

| ITEM | YEAR | PRODUCTION | UNIT | VALUE | |
|--------|------|------------|------|----------|--------------|
| | | | | PER UNIT | TOTAL |
| FISH * | 1993 | 771,000 | Lb. | \$ 1.70 | \$ 1,311,000 |
| | 1992 | 860,000 | Lb. | \$ 2.55 | \$ 2,193,000 |
| TOTAL | 1993 | | | | \$ 1,311,000 |
| | 1992 | | | | \$ 2,193,000 |

* Catfish, Trout, Bass.

PERCENTAGE COMPARISON CHART BY VALUE



GOVERNMENT PAYMENTS *

| | | | | | |
|--------------|--------------|-------------|--------------|---------------|------------|
| BARLEY | \$ 113,000 | HONEY | \$ 43,000 | SORGHUM | \$ 4,000 |
| CORN | \$ 392,000 | OATS | \$ 4,000 | WHEAT | \$ 803,000 |
| COTTON | \$ 8,434,000 | RICE | \$ 1,129,000 | WOOL | \$ 655,000 |

CROPS NOT HARVESTED IN 1993 **

| | | | | | |
|-----------------|-----------|-----------------|----------|--------------------|-----------|
| CANTALOUPE..... | 28 Acres | PEAS | 56 Acres | STRAWBERRIES | 8 Acres |
| GRAPES | 240 Acres | SAFFLOWER | 58 Acres | TOMATOES | 15 Acres |
| ONIONS | 13 Acres | | | WHEAT | 113 Acres |

* Amounts not included in total value of each crop for 1993. (Source: ASCS Office)
 ** The reported planted acreages were not harvested due to crop failures, adverse weather, poor market or inability to harvest and transport.

COMMODITY VALUE CROP COMPARISON SUMMARY 1993-1968

| COMMODITIES | 1993 | 1992 | 1988 | 1983 | 1978 | 1973 | 1968 |
|--------------------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| AQUACULTURE | \$ 1,311,000 | \$ 2,193,000 | \$ 3,147,000 | \$ ----- | \$ ----- | \$ ----- | \$ ----- |
| BEER INDUSTRY | \$ 5,215,000 | \$ 4,631,000 | \$ 3,521,000 | \$ 3,031,000 | \$ 2,021,000 | \$ 1,595,400 | \$ 289,180 |
| FIELD CROPS | \$ 224,826,000 | \$ 200,689,000 | \$ 183,339,000 | \$ 156,920,000 | \$ 96,344,000 | \$ 78,936,600 | \$ 39,729,200 |
| FRUIT AND NUTS | \$ 290,211,000 | \$ 209,267,000 | \$ 199,829,000 | \$ 93,382,000 | \$ 86,243,000 | \$ 69,085,560 | \$ 24,519,840 |
| LIVESTOCK AND POULTRY | \$ 188,970,000 | \$ 201,835,000 | \$ 234,465,000 | \$ 174,255,000 | \$ 132,959,000 | \$ 83,386,000 | \$ 41,023,800 |
| LIVESTOCK AND POULTRY PRODUCTS | \$ 337,036,000 | \$ 318,356,000 | \$ 240,497,000 | \$ 215,455,000 | \$ 119,519,000 | \$ 72,020,000 | \$ 34,843,100 |
| NURSERY PRODUCTS | \$ 14,603,000 | \$ 11,212,000 | \$ 13,248,000 | \$ 8,017,000 | \$ 7,336,000 | \$ 5,720,000 | \$ 1,888,000 |
| OTHER AGRICULTURE | \$ 9,202,000 | \$ 8,901,000 | \$ 8,731,000 | \$ ----- | \$ ----- | \$ ----- | \$ ----- |
| SEED CROPS | \$ 1,209,000 | \$ 1,726,000 | \$ 1,663,000 | \$ 1,381,000 | \$ 2,643,000 | \$ 842,000 | \$ 892,400 |
| VEGETABLE CROPS | \$ 130,049,000 | \$ 111,371,000 | \$ 84,737,000 | \$ 69,309,000 | \$ 50,828,000 | \$ 32,669,000 | \$ 23,120,700 |
| TOTAL | \$1,202,632,000 | \$1,070,181,000 | \$ 973,177,000 | \$ 721,750,000 | \$ 496,893,000 | \$ 344,254,560 | \$ 166,306,220 |

TWELVE LEADING FARM COMMODITIES 1993

| | | | |
|-------------|-------------------|-------------------|--------------------|
| 1. MILK | \$311,501,000 (1) | 7. CATTLE | \$ 48,060,000 (5) |
| 2. ALMONDS | \$175,263,000 (3) | 8. SWEET POTATOES | \$ 38,294,000 (9) |
| 3. CHICKENS | \$103,646,000 (2) | 9. GRAPES, WINE | \$ 27,982,000 (10) |
| 4. COTTON | \$ 76,325,000 (4) | 10. TURKEYS | \$ 26,750,000 (8) |
| 5. ALFALFA | \$ 54,378,000 (7) | 11. CORN SILAGE | \$ 21,617,000 (13) |
| 6. TOMATOES | \$ 53,443,000 (6) | 12. PEACHES | \$ 21,194,000 (11) |

(Number in parenthesis denotes 1992 ranking)

**MERCED COUNTY SUSTAINABLE AGRICULTURE -
BIOLOGICAL CONTROL 1993**

| PEST | ORGANISM | SCOPE OF PROGRAM * |
|---|--|-----------------------|
| <u>GRAPELEAF SKELETONIZER</u> <u>Harrisina brillians</u> | <u>Ametadoria micella</u> (Parasitic Fly) <u>WGS Gramloseis</u> (Virus) <u>Apanteles harrisinae</u> (Parasitic Wasp) | Countywide |
| <u>PUNCTURE VINE</u> <u>Tribulus terrestris</u> | <u>Microlarinus larenyi</u> (Seed Weevil) <u>Microlarinus lybriiformis</u> (Stem Weevil) | Countywide |
| <u>MILK THISTLE</u> <u>Silybum marianum</u> | <u>Rhinocyllus conicus</u> (Seed-Head Weevil) | Countywide |
| <u>ITALIAN THISTLE</u> <u>Carduus tenuiflorus</u> | <u>Rhinocyllus conicus</u> (Seed-Head Weevil) | Limited |
| <u>YELLOWSTAR THISTLE</u> <u>Centaurea solstitialis</u> | <u>Baryscarterus orientalis</u> (Seed-Head Weevil) <u>Urophora sirunaseva</u> (Seed-Head Gall Fly) | Two Sites One Site |
| <u>RUSSIAN THISTLE</u> <u>Salsola iberica</u> | <u>Coleophora klimeschiella</u> (Case Bearing Moth) <u>Coleophora partbenica</u> (Russian Thistle Borer) | Seven Sites |
| <u>WATER HYACINTH</u> <u>Eichornia crassipes</u> | <u>Sameodes albiquittalis</u> (Hyacinth Moth) <u>Neochetina eichorniae</u> (Mottled Hyacinth Weevil) | Six Sites |
| <u>ASH WHITEFLY</u> <u>Siphonius phillyrea</u> | <u>Encarsia partenopea</u> (Parasitic Wasp) | Countywide |
| <u>KLAMATH WEED</u> <u>Hypericum perforatum</u> | <u>Chrysolina quadrigemina</u> (Leaf Feeding Beetle) | Two Sites |

* Represents total number of individual sites, trees, acres, etc., incorporated in program efforts (survey, trap, servicings, releases, etc.)

**MERCED COUNTY SUSTAINABLE AGRICULTURE -
PEST EXCLUSION 1993**

| PEST INTERCEPTED | SOURCE | SCOPE OF PROGRAM |
|-----------------------|-------------------------------------|-------------------------|
| Imported Fire Ant | Trucks/Louisiana, Georgia, Virginia | 4 Rejections/Fumigated |
| Soybean Cyst Nematode | Sweet Potatoes/Louisiana | 1 Rejection/Fumigated |
| Mexican Fruit Fly | Citrus/Texas | 1 Rejection/Destroyed |
| European Corn Borer | Sweet Corn/Ohio | 1 Rejection/Destroyed |
| Citrus Canker | Makeng Peppers/Thailand | 3 Rejections/Destroyed |
| Citrus Canker | Kaffir Limes/Thailand | 3 Rejections/Destroyed |
| European Corn Borer | Hollyhock/UPS | 16 Rejections/Destroyed |
| European Corn Borer | Aster/UPS | 1 Rejection/Destroyed |

**MERCED COUNTY SUSTAINABLE AGRICULTURE -
ORGANIC FARMING 1993**

| CROP | NUMBER OF FARMS | ACRES |
|----------------|--------------------|-------|
| SWEET POTATOES | 3 | 227 |
| ALMONDS | 8 | 333 |
| GRAPES | 1 | 47 |
| PLUMS | 1 | 8 |
| PEACHES | 2 | 14 |
| ASIAN PEARS | 1 | 3 |
| POPCORN | 1 | 12 |
| WALNUTS * | 1 | 4 |
| PERSIMMONS * | 1 | 1 |
| PISTACHIOS | 1 | 94 |
| PEARS | 1 | 10 |

* Non-certified programs.