

ANNUAL REPORT OF AGRICULTURE



1990

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

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



DEPARTMENT OF AGRICULTURE

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

GARY CASERI
Assistant Agricultural Commissioner

TO: Henry J. Voss, Director, California Department of Food and Agriculture, and the Honorable Board of Supervisors of Merced County:

Wyatt "Dub" Davenport, Chairman
Ann Klinger
Michael Bogna

Dean Peterson
Jerry O'Banion

I am extremely pleased to submit the 1990 Agricultural Crop Report as required by Section 2279 of the California Food and Agricultural Code.

It is with great pride that I am able to announce a new record agricultural gross value of \$1,099,085,000 for Merced County. This is \$45,977,000, a 4.37% increase above last year's record setting first time ever one billion dollar agricultural production value. Despite being in a fourth year of drought, most agricultural producers were able to adapt to the conditions faced, manage available water supplies and produce at near normal levels. Increased acreage and higher production or prices in major commodities produced in the County offset those which were lower.

Milk value reached a record \$279,461,000 continuing its lead as the number one commodity. Production was up 11.3% while price declined 3%. Chicken fryers and broilers trailed to remain the number two commodity at \$139,112,000, even though a huge drop of \$22,183,000 occurred due to a 4.5 cent per pound decline and lower production. Milk and chickens account for over 38% of the County's total agricultural value.

Almonds rebounded posting the highest gain of all commodities at \$102,780,000, an increase of \$22,580,000, the result of a record 1,720 pounds per acre average produced even though price dropped 10 cents per pound.

Cotton was up \$16,738,000 to \$69,420,000, with an all time high yield of 1,280 pounds per acre and higher price. Fifth place alfalfa was worth \$62,225,000 as acreage increased by 5,710 acres along with higher production and price. Chicken eggs enjoyed a good year increasing in value to \$27,917,000 with production up 26.7% and higher price.

Increased value of significance was also realized in silage (other), cattle and calves, pistachios, almond hulls, and miscellaneous fruit and nut crops.

Sweet potatoes plunged to \$21,949,000, losing \$12,827,000 as a result of a 24.3% decline in yield and price down 16.6%. Sugarbeets, with less acreage and price down 17%, dropped \$7,676,000 to \$13,213,000. Market tomatoes valued at \$28,572,000 lost \$6,806,000 as price per carton was down 21.7% even though acreage was up.

Horses will no longer be reported and have been dropped from all County reports beginning this year. 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.

Included in this report for the first time, in accordance with new legislation and Section 2272 of the California Food and Agriculture Code, is a brief "Sustainable Agriculture Report" which summarizes biological control, pest eradication, pest exclusion, and organic farming activities in Merced County.

I wish 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
Agricultural Commissioner

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**FIELD CROPS
ACREAGE, PRODUCTION AND VALUE 1990-1989**

CROPS	YEAR	ACREAGE		PRODUCTION		UNIT	VALUE	
		HARVESTED		PER ACRE	TOTAL		PER UNIT	TOTAL
BARLEY	1990	3,940		1.90	7,500	Ton	\$101.00	\$ 758,000
	1989	3,050		1.65	5,030	Ton	106.00	533,000
BEANS (Dry Lima)	1990	2,880		1.18	3,400	Ton	675.00	2,295,000
	1989	3,200		1.06	3,390	Ton	676.00	2,292,000
BEANS (Dry Other)	1990	1,680		1.05	1,800	Ton	600.00	1,080,000
	1989	2,340		.89	2,080	Ton	562.00	1,169,000
CORN (Grain)	1990	11,850		4.12	48,800	Ton	138.00	6,734,000
	1989	8,580		4.47	38,400	Ton	140.00	5,376,000
COTTON (Lint)	1990	69,500		1,280 lbs.	178,000	500 lb. bale	390.00	69,420,000
	1989	60,800		1,220 lbs.	148,400	500 lb. bale	355.00	52,682,000
COTTON (Seed)	1990	----		----	68,000	Ton	155.00	10,540,000
	1989	----		----	59,500	Ton	150.00	8,925,000
HAY (Alfalfa)	1990	69,900		7.08	495,000	Ton	115.00	56,925,000
	1989	62,600		6.84	428,000	Ton	103.00	44,084,000
HAY (Alfalfa-Cube)	1990	6,010		7.28	43,800	Ton	121.00	5,300,000
	1989	7,910		6.35	50,200	Ton	118.00	5,924,000
HAY (Grain)	1990	23,500		3.07	72,000	Ton	81.10	5,839,000
	1989	18,800		2.92	54,900	Ton	77.80	4,271,000
HAY (Sudan)	1990	1,050		2.62	2,750	Ton	69.10	190,000
	1989	832		3.55	2,950	Ton	68.50	202,000
OATS (Grain)	1990	2,150		2.00	4,300	Ton	200.00	860,000
	1989	2,460		2.20	5,410	Ton	150.00	812,000
PASTURE (Irrigated)	1990	83,000		----	----	Acre	110.00	9,130,000
	1989	83,000		----	----	Acre	110.00	9,130,000
PASTURE (Other)	1990	556,000		----	----	Acre	12.50	6,950,000
	1989	557,000		----	----	Acre	12.50	6,963,000
RICE	1990	5,300		3.72	19,700	Ton	149.00	2,935,000
	1989	8,700		3.59	31,200	Ton	145.00	4,524,000
SAFFLOWER	1990	665		1.13	750	Ton	250.00	188,000
	1989	846		1.51	1,280	Ton	328.00	420,000
¹ SILAGE (Corn)	1990	39,500		23.42	925,000	Ton	19.70	18,223,000
	1989	34,900		25.56	892,000	Ton	18.30	16,324,000
SILAGE (Other)	1990	43,100		13.60	586,000	Ton	22.90	13,419,000
	1989	44,800		10.56	473,000	Ton	20.50	9,697,000
SORGHUM (Grain)	1990	85		2.16	184	Ton	103.00	19,000
	1989	390		2.49	970	Ton	80.00	78,000
STRAW	1990	----		----	1,800	Ton	35.00	63,000
	1989	----		----	1,600	Ton	35.00	56,000
² STUBBLE (Pasture)	1990	15,000		----	----	Acre	10.00	150,000
	1989	14,500		----	----	Acre	10.00	145,000
SUGAR BEETS	1990	12,300		29.65	365,000	Ton	36.20	13,213,000
	1989	16,800		28.45	478,000	Ton	43.70	20,889,000
WHEAT	1990	15,200		2.58	39,300	Ton	108.00	4,244,000
	1989	16,200		2.73	44,200	Ton	130.00	5,746,000
TOTAL	1990	947,630						\$228,475,000
	1989	933,208						200,242,000

¹ Includes Alfalfa, Earlage, Oats, Sorghum, Sudan and Winter Forage.

² Includes Alfalfa, Barley, Oats and Wheat. Stubble pasture not included in total acreage.

**NURSERY PRODUCTS
PRODUCTION ACREAGE, SALES AND VALUE 1990-1989**

	YEAR	ACREAGE	TOTAL
	1990	708	\$12,036,000
1989	631	11,905,000	
1 TOTAL			

Includes Budwood, Pits and Cuttings; Citrus, Deciduous Fruit and Nut Trees; Grapevines; Roses; 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 1990-1989**

ITEM	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
FIREWOOD	1990	16,600	Cords	\$75.00	\$1,245,000
	1989	16,200	Cords	65.00	1,053,000
1 FUEL (Cogeneration)	1990	82,700	Tons	18.50	1,530,000
	1989	77,800	Tons	17.10	1,330,000
2 MANURE	1990	1,253,000	Tons	4.68	5,864,000
	1989	1,344,000	Tons	5.58	7,500,000
TOTAL	1990				\$8,639,000
	1989				9,883,000

¹ Almond Shells, Cotton Stalks, Gin Trash, Orchard Prunings, Grape Pomace, Wood Shavings, Walnut Shells and Bean Straw.

² Livestock, Poultry.

**SEED CROPS
ACREAGE PRODUCTION AND VALUE 1990-1989**

CERTIFIED SEED CROPS

CROPS	YEAR	ACREAGE		PRODUCTION		UNIT	VALUE	
		HARVESTED	PER ACRE	TOTAL	PER UNIT		TOTAL	
BEANS	1990	---	---	---	Lb.	\$ ---	\$ ---	
	1989	150	1,800	270,000	Lb.	0.330	89,000	
¹ SEED CROPS (Miscellaneous)	1990	718	---	---	---	---	298,000	
	1989	545	---	---	---	---	304,000	
TOTAL	1990	718	---	---	---	---	\$298,000	
	1989	695	---	---	---	---	393,000	

NON-CERTIFIED SEED CROPS

BEANS	1990	385	2,521	971,000	Lb.	\$0.320	\$ 311,000
	1989	922	2,151	1,983,000	Lb.	0.299	593,000
² SEED CROPS (Miscellaneous)	1990	2,760	---	---	---	---	856,000
	1989	2,947	---	---	---	---	1,225,000
TOTAL	1990	3,145	---	---	---	---	\$1,167,000
	1989	3,869	---	---	---	---	1,818,000

ALL SEED CROPS

TOTAL	1990	3,863	---	---	---	---	\$1,465,000
	1989	4,564	---	---	---	---	2,211,000

¹ Includes certified seed from Alfalfa, Barley, Oats, Peppers, Rice, Rye and Wheat.

² Includes common seed from Cabbage, Carrot, Cucumber, Lettuce, Melons, Oats, Onions, Pepper, Rye, Squash, Tomato and Wheat.

**VEGETABLE CROPS
ACREAGE, PRODUCTION AND VALUE 1990-1989**

CROPS	YEAR	UNIT	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
BEANS-LIMA	1990	4,550	1.49	6,780	Ton	\$500.00	\$ 3,390,000
(Freezer)	1989	3,930	1.59	6,250	Ton	500.00	3,125,000
MELONS	1990	7,260	170	1,234,000	90 lb. crates	9.04	11,155,000
(Cantaloupe)	1989	8,231	148	1,218,000	90 lb. crates	8.30	10,109,000
MELONS	1990	1,350	17.50	23,600	Ton	135.00	3,186,000
(Watermelon)	1989	1,190	13.10	15,600	Ton	105.00	1,638,000
MELONS	1990	1,810	9.84	17,800	Ton	128.00	2,278,000
(Other)	1989	1,063	5.03	5,350	Ton	185.00	990,000
PEAS	1990	1,430	1.35	1,930	Ton	280.00	540,000
(Freezer)	1989	1,130	1.60	1,810	Ton	237.00	429,000
PEPPERS	1990	770	9.24	7,110	Ton	525.00	3,733,000
BELL (Market)	1989	1,156	6.47	7,480	Ton	512.00	3,830,000
¹ PEPPERS	1990	----	----	706	Ton	182.00	128,000
(Processing)	1989	----	----	218	Ton	176.00	38,000
SWEET	1990	6,180	7.60	47,000	Ton	467.00	21,949,000
POTATOES	1989	5,980	10.38	62,100	Ton	560.00	34,776,000
TOMATOES	1990	7,440	----	6,614,000	25 lb. ctns.	4.32	28,572,000
(Market)	1989	5,720	----	6,409,000	25 lb. ctns.	5.52	35,378,000
TOMATOES	1990	8,500	28.20	240,000	Ton	54.34	13,042,000
(Processing)	1989	8,150	31.10	253,000	Ton	56.10	14,193,000
TOMATOES	1990	15,240		323,000	Ton		41,614,000
(All)	1989	13,870		347,000	Ton		49,571,000
² VEGETABLES	1990	3,410					5,652,000
(Miscellaneous)	1989	1,796					3,663,000
TOTAL	1990	42,700					\$ 93,625,000
	1989	38,346					108,169,000

¹ From Market Acreage and Processing Varieties.

² Includes Broccoli, Cabbage, Carrots, Cauliflower, Chili Peppers, Cucumber, Eggplant, Garlic, Lettuce, Onions, Oriental Vegetables, Processed Melons, Popcorn, Pumpkin, Radicchio, Spinash, Squash, String Beans and Sweet Corn.

**FRUIT AND NUT CROPS
ACREAGE, PRODUCTION AND VALUE 1990-1989**

CROPS	YEAR	ACREAGE HARVESTED	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
ALMONDS (Kernel Basis)	1990	66,342	.86	57,100	Ton	\$1,800.00	\$102,780,000
	1989	64,645	.62	40,100	Ton	2,000.00	80,200,000
ALMONDS (Hulls)	1990	----	----	116,000	Ton	65.80	7,633,000
	1989	----	----	82,200	Ton	67.00	5,507,000
APRICOTS	1990	1,657	6.53	10,820	Ton	269.00	2,911,000
	1989	1,563	5.52	8,630	Ton	256.00	2,209,000
FIGS (Cannery)	1990	167	3.80	635	Ton	300.00	191,000
	1989	175	3.80	665	Ton	300.00	200,000
FIGS (Dry)	1990	3,381	1.24	4,190	Ton	1,373.00	5,753,000
	1989	4,018	1.02	4,100	Ton	1,260.00	5,166,000
GRAPES (Raisin)	1990	1,217	1.83	2,230	Ton	888.00	1,980,000
	1989	815	1.76	1,430	Ton	920.00	1,316,000
GRAPES (Raisin to Wine)	1990	698	5.60	3,900	Ton	105.00	410,000
	1989	782	9.87	7,720	Ton	133.00	1,027,000
GRAPES (Wine)	1990	13,408	8.86	119,000	Ton	196.00	23,324,000
	1989	13,682	7.82	107,000	Ton	213.00	22,791,000
KIWIS	1990	38	4.60	175	Ton	2,000.00	350,000
	1989	43	4.47	192	Ton	1,450.00	278,000
NECTARINES	1990	188	8.70	1,640	Ton	678.00	1,112,000
	1989	166	7.30	1,210	Ton	644.00	779,000
OLIVES	1990	37	1.27	47	Ton	538.00	25,000
	1989	33	5.94	196	Ton	600.00	118,000
PEACHES (Clingstone)	1990	3,925	15.76	61,900	Ton	217.00	13,432,000
	1989	3,618	15.79	57,100	Ton	208.00	11,877,000
PEACHES (Freestone)	1990	1,768	20.00	35,400	Ton	163.00	5,770,000
	1989	1,565	15.65	24,500	Ton	161.00	3,945,000
Misc. Frozen Fruit (Berries, Grapes)	1990	----	----	1,171	Ton	625.00	732,000
	1989	----	----	817	Ton	499.00	408,000
PISTACHIOS	1990	3,589	0.72	2,580	Ton	2,400.00	6,192,000
	1989	3,610	0.27	975	Ton	3,800.00	3,705,000
Plums	1990	278	2.19	609	Ton	701.00	427,000
	1989	159	3.32	528	Ton	589.00	311,000
PRUNES	1990	1,835	2.94	5,390	Ton	636.00	3,428,000
	1989	1,783	2.84	5,060	Ton	867.00	4,387,000
WALNUTS (English)	1990	7,622	1.63	12,400	Ton	990.00	12,276,000
	1989	7,507	1.64	12,300	Ton	980.00	12,054,000
Miscellaneous	1990	2,915					12,047,000
	1989	2,869					15,039,000
TOTAL	1990	109,065					\$200,773,000
	1989	107,033					171,317,000

¹ Includes Apples, Fresh Berries, Black Walnuts, Cherries, Citrus, Fresh Peaches, Juice Peaches, Pecans, Pears, Persimmons and Table Grapes.

FRUIT AND NUT ACREAGE PLANTING 1990-1985

CROPS	YEAR 1990		YEAR 1985	
	BEARING	NON-BEARING	BEARING	NON-BEARING
ALMONDS	66,342	2,400	61,654	4,595
APPLES	2,493	138	1,388	990
APRICOTS	1,657	152	1,540	247
BERRIES	96	20	38	34
CHERRIES	146	60	104	41
FIGS (Cannery)	167	----	100	----
FIGS (Dry)	3,381	3	1,420	2,354
GRAPES (Raisin)	1,915	----	3,062	9
GRAPES (Table)	216	27	103	30
GRAPES (Wine)	13,408	479	14,653	512
KIWI	38	----	43	----
MANDARINS	17	11	----	----
NECTARINES	188	32	203	34
OLIVES	60	14	96	----
ORANGES	48	----	51	10
PEACHES (Clingstone)	3,925	692	3,748	291
PEACHES (Freestone)	1,768	118	1,776	199
PEARS	7	10	15	6
PECANS	44	----	66	20
PERSIMMONS	13	----	19	----
PISTACHIOS	3,589	425	1,244	3,218
PLUMS	278	15	151	147
POMEGRANATES	2	----	----	----
PRUNES	1,835	460	1,482	240
WALNUTS (Black)	2	10	53	18
WALNUTS (English)	7,622	797	7,629	1,006
TOTAL	109,257	5,863	100,638	14,001

LIVESTOCK AND POULTRY PRODUCTS 1990-1989

ITEM	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
EGGS-CHICKEN (Market)	1990	41,055,000	Doz.	\$ 0.68	\$ 27,917,000
	1989	32,415,000	Doz.	0.62	20,097,000
EGGS (Hatching)	1990	10,166,000	Each	0.69	7,015,000
	1989	10,402,000	Each	0.63	6,553,000
MILK (Goat)	1990	9,810	Cwt.	25.40	249,000
	1989	7,220	Cwt.	24.50	177,000
MILK (Market)	1990	22,265,000	Cwt.	11.96	266,289,000
	1989	19,896,000	Cwt.	12.34	245,517,000
MILK (Manufacturing)	1990	1,192,000	Cwt.	11.05	13,172,000
	1989	1,176,000	Cwt.	11.60	13,642,000
WOOL	1990	458,000	Lb.	0.70	321,000
	1989	571,000	Lb.	1.54	879,000
TOTAL	1990				\$314,963,000
	1989				286,865,000

BEE INDUSTRY 1990-1989

ITEM	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
BEESWAX	1990	15,300	Lb.	\$ 1.10	\$ 17,000
	1989	19,000	Lb.	1.05	20,000
¹ BULK BEES	1990	22,800	Lb.	4.00	91,000
	1989	10,000	Lb.	4.00	40,000
² HONEY	1990	915,000	Lb.	0.450	412,000
	1989	988,000	Lb.	0.390	385,000
³ POLLINATION	1990	148,000	Colony	27.10	4,022,000
	1989	145,200	Colony	25.40	3,688,000
QUEENS	1990	4,500	Each	5.00	23,000
	1989	9,000	Each	5.11	46,000
TOTAL	1990				\$4,565,000
	1989				4,179,000

¹ Includes bees sold as nuclei.

² Honey produced by 30,500 colonies in 1990 and 35,500 colonies in 1989 owned by resident beekeepers.

³ Pollination colonies include all required to pollinate crops grown in Merced County.

**LIVESTOCK AND POULTRY
PRODUCTION AND VALUE 1990-1989**

ITEM	YEAR	NUMBER OF		UNIT	VALUE	
		HEAD	LIVEWEIGHT		PER UNIT	TOTAL
CATTLE AND CALVES	1990	112,000	805,000	Cwt.	\$61.00	\$ 49,105,000
	1989	123,000	776,000	Cwt.	59.00	45,784,000
CHICKENS (Fryers and Broilers)	1990	91,908,000	434,725,000	Lb.	0.320	139,112,000
	1989	92,461,000	441,905,000	Lb.	0.365	161,295,000
CHICKENS (Other)	1990	1,795,000	6,659,000	Lb.	0.243	1,618,000
	1989	1,317,000	5,260,000	Lb.	0.246	1,294,000
GOATS	1990	957	---	Each	42.00	40,000
	1989	870	---	Each	44.00	38,000
HOGS AND PIGS	1990	40,700	90,000	Cwt.	58.40	5,256,000
	1989	59,500	119,000	Cwt.	51.80	6,164,000
¹ POULTRY (Miscellaneous)	1990	210,000	246,000	Lb.	2.34	576,000
	1989	215,000	252,000	Lb.	2.60	655,000
SHEEP AND LAMBS	1990	65,000	74,800	Cwt.	50.00	3,740,000
	1989	70,600	94,100	Cwt.	57.90	5,448,000
TURKEYS	1990	4,178,000	87,738,000	Lb.	0.368	32,288,000
	1989	4,375,000	89,513,000	Lb.	0.380	34,015,000
TOTAL	1990					\$231,735,000
	1989					255,720,000

¹ Chuckar, Pheasant, Poussin.

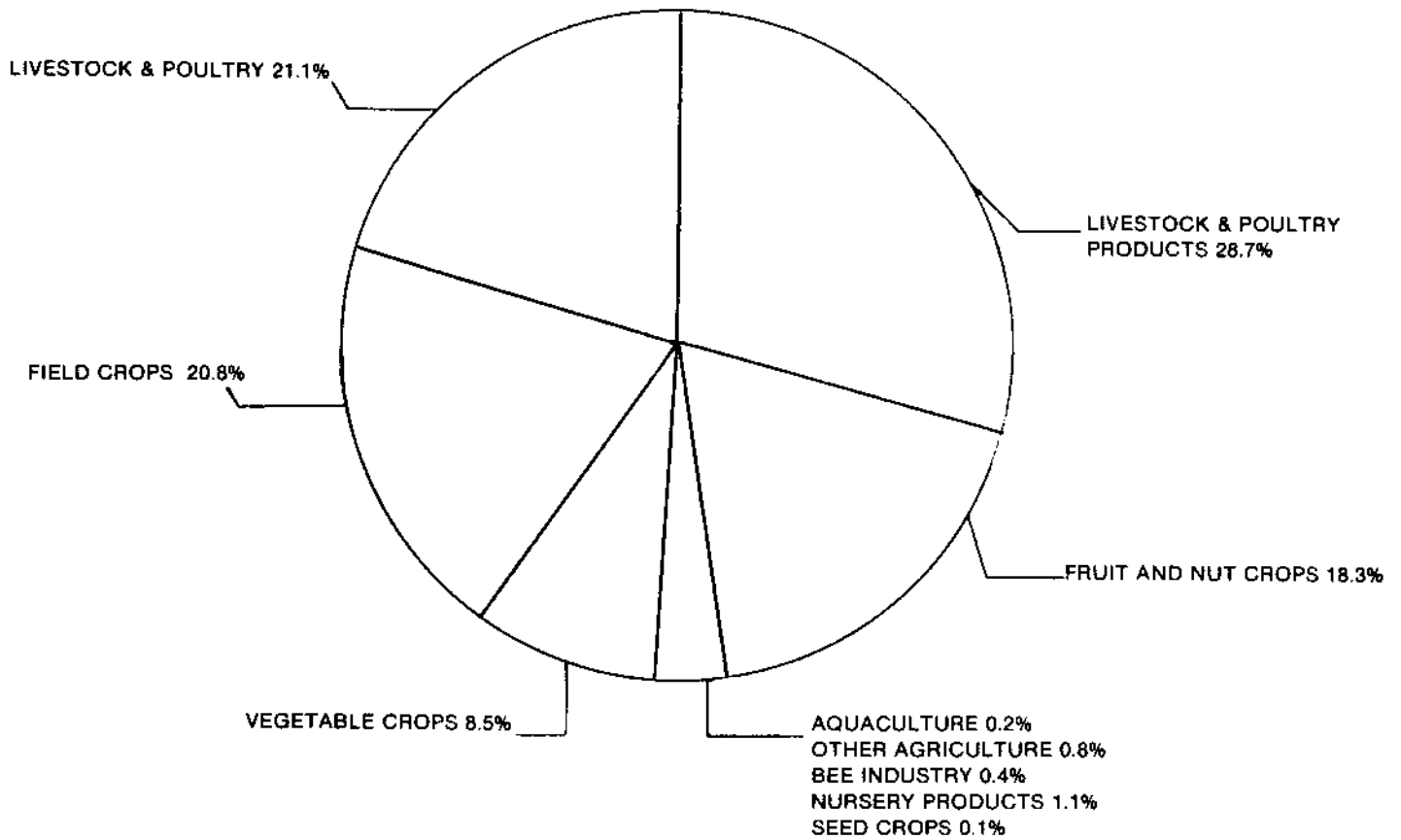
**AQUACULTURE
PRODUCTION AND VALUE 1990-1989**

ITEM	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
¹ FISH FOR FOOD	1990	1,266,000	Lbs.	\$ 1.43	\$ 1,810,000
	1989	738,000	Lbs.	1.78	1,314,000
² FISH (Miscellaneous)	1990	24,317,000	Each	0.041	999,000
	1989	34,284,000	Each	0.038	1,303,000
TOTAL	1990				\$ 2,809,000
	1989				2,617,000

¹ Catfish, Stripers, Trout

² Fingerlings, Goldfish

PERCENTAGE COMPARISON CHART



***GOVERNMENT PAYMENTS**

BARLEY	\$ 27,000	HONEY	\$ 440,000	SORGHUM	\$ 7,500
CORN	497,000	RICE	1,622,000	WHEAT	449,000
COTTON	3,604,000	LIVESTOCK FEED	1,613,000	WOOL	255,000

****CROPS NOT HARVESTED IN 1990**

CANTALOUPE	60 Acres	HONEYDEW	25 Acres	PECANS	10 Acres
CITRUS	47 Acres	OAT HAY	112 Acres	SAFFLOWER	36 Acres
FREEZER PEAS	250 Acres	OLIVES	23 Acres	TOMATOES, FRESH	6 Acres
				WHEAT	50 Acres

*Amounts not included in total value of each crop for 1990 (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 1990-1965

COMMODITIES	1990	1989	1985	1980	1975	1970	1965
AQUACULTURE	\$ 2,809,000	\$ 2,617,000		\$ 2,923,000	1,085,000	370,000	322,700
BEE INDUSTRY	4,565,000	4,179,000	3,682,000	191,239,000	101,968,000	45,783,000	40,884,300
FIELD CROPS	228,475,000	200,242,000	161,412,000	152,584,000	55,799,000	29,752,000	18,054,600
FRUIT AND NUTS	200,773,000	171,317,000	121,208,000	191,226,000	42,381,000	56,362,000	34,600,000
LIVESTOCK & POULTRY	231,735,000	255,720,000	193,934,000	171,548,000	103,548,000	40,672,000	26,444,800
LIVESTOCK & POULTRY PRODUCTS	314,963,000	286,865,000	247,574,000	15,734,000	5,023,000	2,382,000	2,684,000
NURSERY PRODUCTS	12,036,000	11,905,000	7,239,000				
OTHER AGRICULTURE	8,639,000	9,883,000					
SEED CROPS	1,465,000	2,211,000	2,876,000	3,012,000	2,972,000	469,300	1,533,500
VEGETABLE CROPS	93,625,000	108,169,000	74,493,000	65,831,000	47,704,000	16,707,700	14,184,900
TOTAL	\$1,089,085,000	\$1,053,108,000	\$812,418,000	\$ 794,097,000	\$404,956,000	\$191,860,300	\$138,708,800

TWELVE LEADING FARM COMMODITIES 1990

MILK	\$ 279,461,000 (1)	TOMATOES	\$ 41,614,000 (6)
CHICKENS	140,790,000 (2)	TURKEYS	32,288,000 (9)
ALMONDS	102,780,000 (3)	EGGS	27,917,000 (12)
COTTON	69,420,000 (4)	GRAPES, WINE	23,734,000 (10)
ALFALFA	62,225,000 (5)	SWEET POTATOES	21,949,000 (8)
CATTLE	49,105,000 (7)	PEACHES	19,202,000 (14)

NUMBER TO RIGHT OF LISTING DENOTES 1989 RANKING

MERCED COUNTY SUSTAINABLE AGRICULTURE

1990

BIOLOGICAL CONTROL

PEST	ORGANISM	SCOPE OF PROGRAM*
GRAPELEAF SKELETONIZER <u>Harrisina brilliana</u>	<u>Ametadoria misella</u> (Parasitic Fly) <u>WGLS Granulosis</u> (Virus) <u>Apanteles harrisinae</u> (Parasitic Wasp)	Countywide
PUNCTURE VINE <u>Tribulus terrestris</u>	<u>Microlarinus larenyii</u> (Seed Weevil) <u>Microlarinus lypriformis</u> (Stem Weevil)	Countywide
MILK THISTLE <u>Silybum marianum</u>	<u>Rhinocyllus conicus</u> (Seed-Head Weevil)	Countywide
ITALIAN THISTLE <u>Carduus tenuiflorus</u>	<u>Rhinocyllus conicus</u> (Seed-Head Weevil)	Limited
YELLOWSTAR THISTLE <u>Centaurea solstitialis</u>	<u>Bangasternus orientalis</u> (Seed-Head Weevil)	Two Sites
RUSSIAN THISTLE <u>Salsola iberica</u>	<u>Coleophora klimeschiella</u> (Case Bearing Moth) <u>Coleophora parthenica</u> (Russian Thistle Borer)	Seven Sites
WATER HYACINTH <u>Eichornia crassipes</u>	<u>Sameodes albiguttalis</u> (Hyacinth Moth) <u>Neochetina eichorniae</u> (Mottled Hyacinth Weevil)	Six Sites

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

PEST ERADICATION

PEST	METHOD	SCOPE OF PROGRAM
BANANA WATER LILY <u>Nymphaea mexicana</u>	Herbicide Spray	20 Acres
WHITEHORSE NETTLE <u>Solanum elaeagnifolium</u>	Herbicide Spray	4 Acres
PURPLE MUSTARD <u>Chorispora tenella</u>	Herbicide Spray	1 Acre

**MERCED COUNTY SUSTAINABLE AGRICULTURE
1990**

PEST EXCLUSION

PEST INTERCEPTED	SOURCE	SCOPE OF PROGRAM
Kaffir Lime Leaves	Citrus/Asian Markets	6 Rejections/Destroyed
Varroa Mite	Bee Hives	9 Rejections/Quarantined
Apple Maggot	Apples/UPS	1 Rejection/Released
Noxious Weed Seed	Oat Seed Screenings/Rail Cars	1 Rejection/Sampled/Released
Cereal Leaf Beetle	Mini Straw Bales/Grocery Store	1 Rejection/Return/Shipper
Witchweed	Mini Straw Bales/Grocery Store	1 Rejection/Return/Shipper
European Corn Borer	Hollyhocks/UPS	8 Rejections/Destroyed
Baby's Breath	UPS	4 Rejections/Destroyed
Burrowing Nematode	Misc. Plants/UPS	6 Rejections/Destroyed
Cedar-Apple Rust	Crabapple/UPS	1 Rejection/Destroyed
Japanese Beetle	Lavender/UPS	1 Rejection/Destroyed
Black Stem Rust	Barberry/UPS	1 Rejection/Destroyed
Ozonium Root Rot	Gooseberry/UPS	1 Rejection/Destroyed
Q-Rated Scale	Cut Greens/UPS	1 Rejection/Destroyed

ORGANIC FARMING

1990 CROPS

ORGANIC (CERTIFIED)

CROP	NO. FARMS	ACRES
Sweet Potato	3	323

ORGANIC (NON-CERTIFIED)*

CROP	NO. FARMS	ACRES
Sweet Potato	4	670
Raisin (Grape)	1	45
Cantaloupes	1	12
Almonds	1	18

*Non-Certified - Other certification program not recognized by California Law.