

MONTEREY COUNTY

AGRICULTURAL COMMISSIONER

(408) 758-3876 - 120 WILGART WAY - SALINAS, CALIFORNIA 93901 FAX: (408) 422-5003

RICHARD W. NUTTER
AGRICULTURAL COMMISSIONER
ADMINISTRATOR OF WEIGHTS & MEASURES

Henry J. Voss, Director California Department of Food and Agriculture

and

The Honorable Board of Supervisors of Monterey County:

Sam Karas, Chairman, Fourth District Marc Del Piero, First District Barbara Shipnuck, Second District Tom Perkins, Third District Karin Strasser Kauffman, Fifth District

In compliance with the provisions of Section 2279 of the California Food and Agricultural Code, I am pleased to submit the Monterey County Agricultural Crop Report for the calendar year 1990.

Monterey County's agriculture entered 1990 by breaking all previous records with a gross value of 1,397,598,940. This exceeds the 1989 total by \$191,704,060 or 15.9%.

Acreage total and value for Head Lettuce declined but the crop continued in the number one position as it has for more than 50 years.

Once again, Strawberries displaced Broccoli as the second leading crop with a dramatic 80 million dollar increase. Fresh market prices and new acreage accounted for the showing. Broccoli acreage dropped slightly but gross value rebounded despite a significant drop in product used for processing purposes. This is a direct result of the relocation of food processing plants to Mexico.

Increased production accounted for Wine Grapes establishing another record year. This industry continues to draw worldwide acclaim.

The commodities recording increased gross values were: Anise, Asparagus, Broccoli, Cauliflower, Celery, Chili Peppers, Grapes, Green Onions, Kale, Leaf Lettuce, Nursery Stock, Raspberries, Seed Crops, Spinach, Strawberries, Walnuts; decreases were experienced by: Apples, Artichokes, Brussels Sprouts, Cabbage, Carrots, Garlic, Head Lettuce, Kiwi, livestock, Milk, Mushrooms and Tomatoes.

Mother Nature adversely affected county agriculture with the continuation of the drought and the impact of the December freeze.

Livestock producers and dry land farmers are the most directly affected by the extended drought. A reduction in herd numbers and acreage grown has been necessary.

Vegetable crop growers continue to produce on about the same acreage but have been forced to deepen wells and pay increased power bills.



Fuel and transportation costs were noted as affecting grower profit margins along with inflationary increases for implements of husbandry.

Exports continue to be a bright spot with Formosa displacing Japan as the leading importer. Broccoli shipments tripled over last year while the Gulf War was responsible for reduced Strawberry shipments to the Middle East Countries.

The values represented in this report are <u>gross receipts</u> of the producers, and do not take into account the various costs of production, marketing, or transportation. No attempt is made to reflect <u>net income</u> of the producer.

My thanks to the individuals and firms whose cooperation made this report possible, and to my staff members, under the direction of Deputy Agricultural Commissioner Gerry Willey and Agricultural Biologist III Katherine Smith, who coordinated and compiled this report.

Very truly yours,

Redand W. Hutter

Richard W. Nutter Agricultural Commissioner

RWN:jd

The 1990 Annual Crop Report is dedicated to Wallace L. Marvin, Assistant Agricultural Commissioner, who will retire in 1991. Wallace L. Marvin will retire with 41 years of exemplary and dedicated service to the Monterey County Agricultural Commissioner's office.

AGRICULTURAL COMMISSIONER RICHARD W. NUTTER

ASSISTANT AGRICULTURAL COMMISSIONER WALLACE L. MARVIN

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PRODUCE INSPECTION STAFF

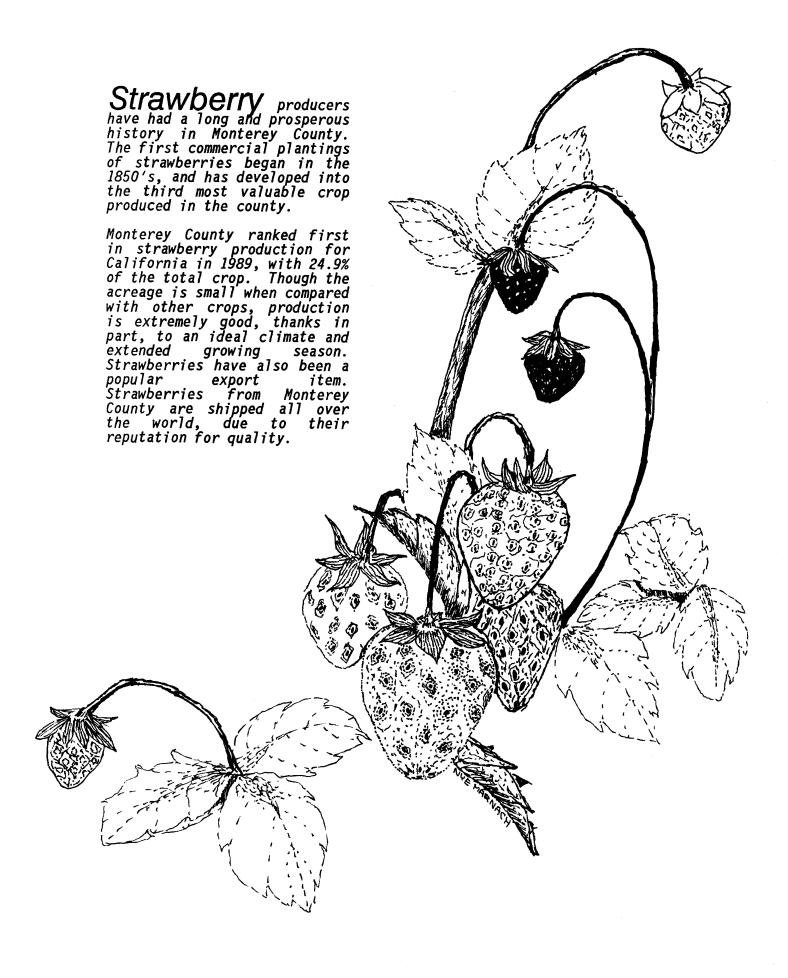
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APPROXIMATE WEIGHTS USED FOR FRESH MARKET CONVERSION

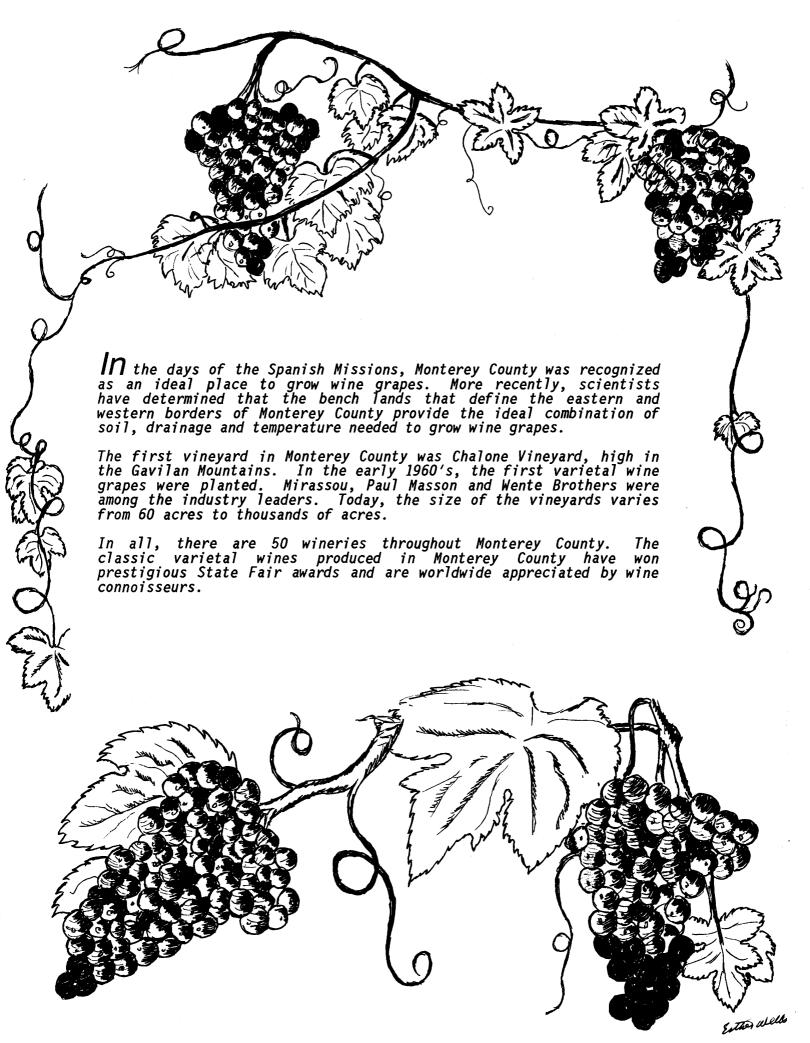
CROP	UNIT	POUNDS
APPLES	Carton	38
ANISE	Crate	<i>37</i>
ARTICHOKES	Carton	23
<i>ASPARAGUS</i>	Carton	<i>32</i>
AVOCADOS	Carton	26
BOK CHOY	Carton	50 23
BROCCOLI	Carton	23
BRUSSELS SPROUTS	Carton	25
BUSHBERRIES	Slide	_ 9
CABBAGE - All	Carton	25 9 50
CARROTS	Carton	50
CARROTS	Sack	50
CAULIFLOWER	Carton	50 23 60 25
CELERY	Carton	60
ENDIVE	Carton	25
ESCAROLE	Carton	25
NAPA	Carton	50
KALE	Carton	20 7
KIWI FRUIT	Carton	7
LETTUCE - Head	Carton	50
LETTUCE - Leaf	Carton	25
ONIONS - Dry	Sack	50
ONIONS - Green	Carton	13
PARSLEY	Carton	21
PEPPER - Bell	Carton	30
RASPBERRIES	Slide	6
ROMAINE	Carton	37
SALAD PRODUCTS	Carton	20
SPINACH	Carton	20
SQUASH	Carton	30
STRAWBERRIES	Slide	12
TOMATOES	Carton	25
TOMATOES - Cherry	Slide	12
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FRUITS AND NUTS

				PRODUCTIO	N	F.O.B	. VALUE
CROP	<u>YEAR</u>	<u>ACRE AGE</u>	PER ACR	E TOTAL	<u>UNIT</u>	PER UNIT	TOTAL
APPLES							
Total	1990 1989	348 346		4,915 T 5,010	on "	;	\$ 677,000 709,000
Fresh	1990 1989	158 138	7.88 7.75	1,2 4 5 1,070	II II	179.90 161. 4 0	224,000 173,000
Processing	1990 1989	190 208	19.32 18.94	3,670 3,940	# #	123.30 136.10	453,000 536,000
AVOCADOS	1990 1 98 9	40 30.50	1.10 2.52	44 77	# #	1,253.70 690.40	55,200 53,200
GRAPES	199 0 1989	25,247.95 32,645.71	(See S	Supplement	ary F	Page 3)	63,719,000 60,139,000
KIWI FRUIT	1990 1989	12 15	1.00 3.87	12 58	_H	3,000.00 2,666.70	36,000 155,000
MISC. FRUIT*	1990 1989	370 2 40					1,195,000 714,000
BUSHBERRIES	1990 1989	68 72	7.93 2.75	539 198	# #	1,058.00 2,470.00	570,000 489,000
RASPBERRIES	199 0 1989	723 640	5.19 4.28	3,755 2,740	# #	3,264.30 3,576.70	12,257,000 9,800,000
STRAWBERRIES							
Total	1990 1989	5,83 0 5,05 0		183,000 116,800	# #		181,459,000 102,474,000
Fresh	1990 1989		25.21 20.20	147,000 102,000	11 11	1,118.70 935.00	164,449,000 95,370,000
Processing	1990 1989		6.24 2.93	36,400 14,800	11 11	467.30 480.00	17,010,000 7,104,000
WALNUTS	1990 1989	319 313	1.25 1.20	400 375	H	1,130.00 1,000.00	452,000 375,000
TOTAL ACRES	1990 1989	32,957.95 39,352.21	TOTAL	VALUE OF	FRUIT	S & NUTS \$	260,420,200 174,908,200

^{*} Includes Almonds, Apricots, Lemons, Oranges and others



GRAPE SUPPLEMENTARY

CROP	<u>YEAR</u>	<u>ACREAGE</u>	PRO PER ACR	ODUCTION E <u>TOTAL</u>	UNIT	F.O.B <u>PER UNIT</u>	. VALUE TOTAL
GRAPES	1990	25,247.95	3.96	100,075.97	Ton	636.71	\$63,719,000
Nonbearing or not Harvested		7,905.88					
TOTAL		33,153.83					
GRAPES	1989	26,720.31	3.34	89,400	Ton	\$672.70	\$60,139,000
Nonbearing or not Harvested		5,925.40					
TOTAL		32,645.71					

TOTAL ACREAGE OF WINE GRAPES BY VARIETY

TOTAL ACRES 33, 153.83

^{*} CDFA weighted average price per ton



WATER. HOW MUCH IS ENOUGH?

In 1930, 100 gallons of water were required to produce one head of lettuce. Now, in 1990, it takes about 10 gallons. This large improvement in water use efficiency did not just happen. It was the result of long term water use studies to improve efficiency, and constantly improving technology and methods. These improvements enabled growers to produce more, while using less water. In the 1950's, sprinklers began to appear in the Salinas Valley. Laser-guided land levelers have been developed and brought into service to assist in more efficient water use. Computer-directed drip irrigation is now used on crops such as Grapes, Tomatoes, and Strawberries. Drought years cause us all to take notice of our water. California Agriculture, however, is continually searching for new methods to conserve water. New technologies are being developed and implemented each year.

VEGETABLE CROPS

CROP	<u>YEAR</u>	<u>ACREAGE</u>	PER ACRE	PRODUCTIO TOTAL		F.O. <u>PER UNIT</u>	B. VALUE TOTAL
ANISE	1990	466	14.16	6,600	Ton	\$505.20	\$ 3,334,000
	1989	271	11.77	3,190	"	422.60	1,348,000
ARTICHOKES Total	1990	6,970					23,147,800
TOLAT	1989	8,360					25,686,000
Fresh	1990 1989		4.13 4.13	28,790 34,530	11 11	679.80 622.80	19,571,000 21,505,000
Processing	1990		1.53	10,690	#	327.80	3,504,000
(Regular)	1989		1.44	12,070	#	338.00	4,080,000
Processing	1990		0.40	2,800	11	26.00	72,800.
(Culls)	1989		0.46	3,880	11	26.00	101,000
ASPARAGUS	1990 1989	4,830 4,990	3.21 3.10	15,500 15,450	11	1,077.00 995.00	16,694,000 15,373,000
ВОК СНОУ	1990	69	9.80	676	11	219.00	148,000
	1989	360	10.90	3,925	11	303.30	1,190,000
BROCCOLI Total	1990 1989	48, 700 50,960					129,195,000 122,098,000
Fresh	1990	40,000	5.83	233,000	11	473.20	110,256,000
	1989	30,900	6.47	200,000	11	403.20	80,640,000
Processing	1990	8,700	5.59	48,600	!!	389.70	18,939,000
	1989	20,060	5.57	111,656	!!	371.30	41,458,000

CROP	<u>YEAR</u>	<u>ACREAGE</u>	PER ACRE	PRODUCTI TOTAL	ON UNIT	F.O.B <u>PER UNI</u>	
BRUSSELS SPROUT Total	S 1990 1989	1,255 1,322					\$4,709,000 5,653,000
Fresh	1990 1989	301 182	7.38 9.56	2,222 1,740	11 11	654.60 606.60	1,455,000 1,055,000
Processing	1990 1989	954 1,140	7.42 9.17	7,075 10,450	11 11	460.00 440.00	3,254,000 4,598,000
CABBAGE, Green	1990 1989	599 6 40	13.47 20.97		11 11	200.60 222.50	1,619,000 2,986,000
CABBAGE, Red	199 0* 1989	143	17.83	2,550	II	234.90	599 ,0 00
CARROTS Total	1990 1989	3,180 5,351					11,401,000 18,110,000
Fresh	1990 1989	1,560 2,601	20.06 20.45	31,300 53,180	"	233.85 224.00	7,320,000 11,912,000
Processing	199 0 1989	1,620 2,750	28.09 29.95	45,500 91,550	# #	89.70 67.70	4,081,000 6,189,000
CAULIFLOWER Total	1990 1989	22,340 21,391					85,115,000 64,411,000
Fresh	199 0 1989	19,410 14,911	7.32 7.48	142,000 111,550	# #	551.00 455.30	78,242,000 50,789,000
Processing	1990 1989	2,930 6,480	4.30 4.29	12,600 27,800	n n	545.50 490.00	6,873,000 13,622,000

CROP	<u>YEAR</u>	<u>ACREAGE</u>	PER ACRE	PRODUCTIO TOTAL		F.O.B <u>PER UNIT</u>	. VALUE TOTAL
CILANTRO	1990	117	13.38	1,565	Ton	\$ 526.65	\$ 824,000
	1989	87	12.00	1,044	"	495.30	517,000
CELERY Total	1990 1989	7,290 5,085					53,346,000 34,456,000
Fresh	1990	7,150	33.01	236,000	"	222.70	52,557,000
	1989	4,765	33.46	159,450	"	207.70	33,118,000
Processing	1990	140	29.25	4, 095	11	192.60	789,000
	1989	320	28.34	9,070	11	147.50	1,338,000
GARLIC	1990	132	8.30	1,095	11	1,113.65	1,219,000
	1989	380	7.74	2,942	11	693.30	2,040,000
HERBS*	1990 1989	51 50			11 11		472,000 365,000
KALE	1990	153	14.77	2,260	#	631.10	1,426,000
	1989	118	7.66	904	#	557.50	504,000

^{*} Includes Oregano, Sage, Thyme, Rosemary and others

CROP	YEAR	ACREAGE	PER_A	PRODUCTION CRE TOTAL	UNIT	F.O. PER UNIT	.B. VALUE TOTAL
LETTUCE, Head	1990						
Spring		17,610					
Summer		18,440					
Fall		22,230					
Naked P	ack			26,114,000	Ctn	\$6.80	177,575,000
Wrapped	Pack			14,243,000	II	8.30	118,217,000
Bulk fo	r Shre	dding		6,394,000	u (4.00	25,576,000
Bulk fo	r Whol	e Cored	Lettuce	511,360	"	7.14	3,651,000
SEASON TO	TAL	58,280	811.00	47,262,360	u	6.8769	325,019,000
LETTUCE, Head	1989						
Spring		20,105					
Summer		20,705					
Fall		23,225					
Naked P	ack			30,477,000	Ctn	\$6.25	\$190,481,000
Wrapped	Pack			13,804,000	"	7.75	106,981,000
Bulk fo	r Shre	dding		7,250,000	"	3.59	26,028,000
Bulk fo	r Whol	e Cored	Lettuce	1,207,000	"	6.14	7,411,000
SEASON TO	TAL	64,035	823.58	52,738,000	"	\$6.2744	\$330,901,000

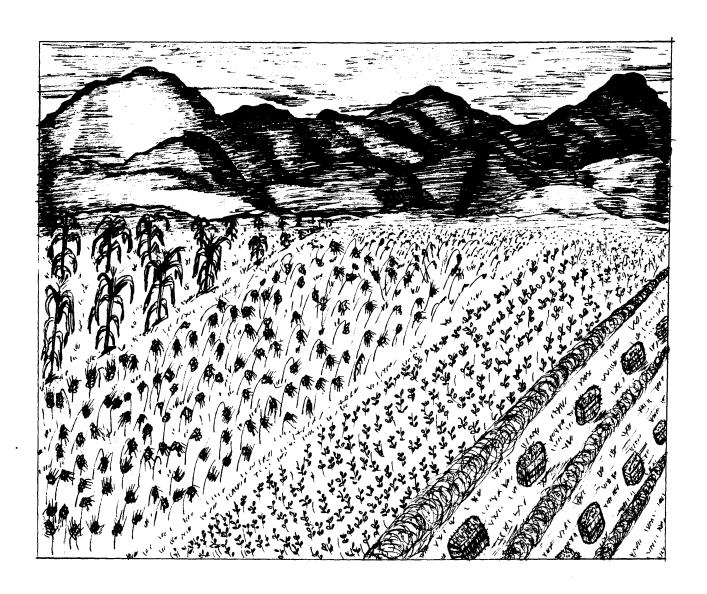
CROP	<u>YEAR</u>	<u>ACREAGE</u>	P PER ACRE	RODUCTION TOTAL	<u>UNIT</u>	F.O.B. <u>PER UNIT</u>	VALUE TOTAL
BUTTER LETTUCE	1990 1989	2,120 1,195	898.11 898.74	1,904,000 1,074,000	Cţn	\$5.10 4.60	\$ 9,710,000 4,940,000
GREEN LEAF	1990 1989	6,550 4,419	806.56 848.83	5,283,000 3,751,000	# #	5.30 5.36	28,000,000 20,105,000
ENDIVE	1990 1989	482 429	867.22 682.98	418,000 293,000	H H	6.60 4.76	2,759,000 1,395,000
ESCAROLE	1990 1989	359 410	846.80 504.88	304,000 207,000	u u	6.60 5.40	2,006,000 1,118,000
RED LETTUCE	1990 1989	3,040 1,720	821.71 867.44	2,498,00 1,492,00		5.30 5.25	13,239,000 7,833,000
ROMAINE	1990 1989	7,980 4,690	756.52 768. 02	6,037,00 3,602,00		5.80 6.08	35,015,000 21,900,000
LEAF LETTUCE TOTALS	1990 1989	20,531 12,863	800.94 810.00	16,444,00 10,419,00	 00 " 00 "		90,729,000 57,291,000
LETTUCE CROP TOTALS	1990 1989	78,811 76,898		& LEAF LET	TUCE		\$415,748,000 \$388,192,000

CROP	<u>YEAR</u>	<u>ACREAGE</u>	PER ACRE	PRODUCTION TOTAL		F.O. <u>PER UNIT</u>	B. VALUE TOTAL
LEEKS	1990	83	3.64	302	Ton	\$2,085.00	630,000
MUSHROOMS	1990 1989	*		46,412,000 48,290,000	Lb.	0.92 0.92	\$42,699,000 44,427,000
NAPA	1990 1989	322 305	31.68 10.66	10,200 3,250		282.40 276.30	2,880,000 898,000
ONIONS, Dry	1990 1989	383 522	15.42 23.59	5,905 12,315		172.10 184.00	1,016,000 2,266,000
ONIONS, Green	1990 1989	1,020 1,348	9.50 8.31	9,686 11,200		1,083.80 729.20	10,498,000 8,167,000
PARSLEY Total	1990 1989	817 1,139					5,408,000 3,490,000
Fresh	1990 1989	315 235	12.97 9. 2 3	4,085 2,170		523.00 460.10	2,136,000 998,000
Dry	1990 1989	502 904	6.24 2.56	3,130 2,310		1,045.40 1,078.70	3,272,000 2,492,000
PEPPERS, Bell Total	1990 1989	430 719					1,721,000 2,902,000
Fresh	1990 1989	293 276	6.11 13.73	1,790 3,790		444.20 471.00	795,000 1,785,000
Processing	1990 1989	137 443	30.22 15.30	4,140 6,623		223.60 - 168.70	926,000 1,117,000
PEPPERS, Chili Dry	1990 1989	3,870 2,990	3.44 3.58	13,300 10,700		1,050.80 991.20	13,976,000 10,606,000
POTATOES	1990 1989	1,000 1,000	20.00 20.00	20,000 20,000		135.00 130.00	2,700,000 2,600,000
RADICCHIO	1990	184	10.87	2,000	, 11	709.00	1,418,000
RADI SH	1990	935	4.17	3,900	"	613.30	2,392,000

^{*} Multiple harvested square footage

CROP	<u>YEAR</u>	<u>ACREAGE</u>	PER AC	PRODUCTIO RE TOTAL			B. VALUE TOTAL
SALAD PRODUCTS Shredded	S 1990 1989			4,275,000 3,659,000		\$ 5.68 6.30	
Food Service Products*	e 1990 1989						32,988,000 17,490,000
SPINACH Total	1990 1989	7,300 4,410					\$14,099,000 11,476,000
Fresh	1990 1989	1,780 1,070	7.87 10.09	14,000 10,800	Ton "	573.90 570.90	8,035,000 6,166,000
Processing	1990 1989	5,520 3,340	9.78 13.22	54,000 44,142	11 11	112.30 120.30	6,064,000 5,310,000
SQUASH, Fresh	1990 1989	399 630	11.72 11.56	4,675 7,280	11 11	402.30 381.20	1,881,000 2,775,000
TOMATOES Total	1990 1989	7,770 7,440					28,471,000 29,895,000
Fresh	1990 1989	4,970 4,440	14.77 16.02	73,400 71,125	" "	320.20 353.30	23,503,000 25,128,000
Processing	1990 1989	2,800 3,000	32.14 30.50	90,000 91,500	# #	55.20 52.10	4,968,000 4,767,000
TOMATOES, Cherry	1990 1989	143 198	6.20 11.06	886 2,190	# #	830.97 646.60	736,000 1,416,000
MISCELLANEOUS VEGETABLES**							
Total	1990 1989	1,348 2,894					7,331,000 17,645,000
Fresh	1990 1989	1,250 2,459					6,961,000 15,313,000
Processing	1990 1989	98 435					370,000 2,332,000
TOTAL ACRES	1990 1989	200,967 194,650		TAL VALUE TABLE CROP	'S	1990 1989	943,395,800 844,523,000

^{*}Broccoli and Cauliflower Florets, Celery, Spinach, and Carrots
**Includes Beets, Cactus Pears, Chives, Corn, Green Peppers, Rappini,
Fresh Peas, Parsnips, Fava Beans, Turnips, Chires, Pimentos,
Asparagus, Celery Pumpkins, Cardone, Edible Flowers, and others



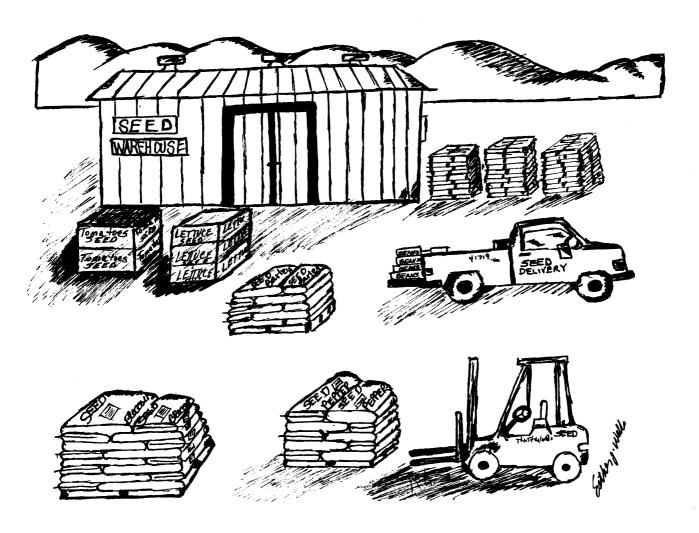
In the last twenty years, the acreage of most field crops has declined as vegetable and grape crops have expanded into the Salinas Valley.

The cereal crops--barley and wheat--have been replaced in the bench lands primarily by grapes. Low grain prices have caused some dry lands to be converted to grazing areas. Over twelve thousand acres of highly erodible grain land has gone into the Conservation Reserve Program, while bean and sugar beet acreage has given way to vegetable production. A reduction in the number of dairies, along with increased land and water costs, have resulted in a decrease of corn, alfalfa and irrigated pasture. Dry land pasture, which utilizes the most acres of any single crop, has remained relatively stable, however, grazing has been reduced as a result of the last four years of drought.

FIELD CROPS

CROP	<u>YEAR</u>	<u>ACREAGE</u>	PR PER ACRE	ODUCTION TOTAL		F.O. <u>PER UNIT</u>	B. VALUE TOTAL
BARLEY, Grain	1990	12,780	0.89	11,400	TON	\$ 110.00	\$ 1,254,000
	1989	21,300	0.90	19,200	"	112.00	2,150,000
BEANS, Dry	1990	1,570	1.44	2,260	11	1,175.00	2,656,000
Large Lima	1989	2,585	1.02	2,630	11	960.00	2,525,000
Small White	1990* 1989	413	1.23	5 07	u u	640.00	324,000
Misc. Dry	1990* 1989	55	1.44	<i>79</i>	11 11	780.00	61,600
CORN,	1990	440	5.50	2,420	11	235.00	569,000
Processing	1989	621	5.51 ·	3,420	11	235.00	804,000
CORN, Silage	1990* 1989	100	35.00	3,500	11 11	35.00	122,000
HAY, Alfalfa	1990	2,970	5.82	17,300	11	110.00	1,903,000
	1989	2,970	7.37	21,900	11	105.00	2,300,000
HAY, Barley	1990	4,180	0.90	3,760	11	100.00	376,000
	198 9	3,800	0.85	3,230	11	80.00	258,000
HAY, Oats	1990	1,310	1.03	1,355	11	106.00	144,000
	1989	1,130	1.00	1,130	11	95.00	107,000
PASTURE, Dry Land		1,107,500 1,107,500			ACRE	6.50 6.50	7,199,000 7,199,000
PASTURE,	1990	300	1.00	300	TON	80.00	24,000
Irrigated	1989	300	1.00	300		80.00	24,000
SUGAR BEETS	1990	2,740	39.42	108,000	11	39.10	4,223,000
	1989	2,830	40.11	113,500	11	39.60	4,495,000
WHEAT, Grain	1990	1,790	0.82	1,460	11	120.00	175,000
	1989	1,670	0.80	1,335	11	124.00	166,000
TOTAL ACRES		1,135,580 1,145,274		IE TOTAL D CROPS		1990 1989	\$18,523,000 20,535,600

^{*}Insufficient to Report



Seed crops have become a very important economic crop for Monterey County. Last year alone, over 7,212,720 pounds of seed were exported to foreign countries. This industry keeps the Federal Phytosanitary Inspectors on their toes, ensuring that the importing nations' requirements have been met.

Monterey County's agricultural industry is involved not only in growing and shipping raw seed, but is also the home for many seed coaters, both large and small. These companies use modern seed treatment techniques to enhance the viability, germination and vigor of the seed. Countries throughout the world benefit from this kind of seed treatment.

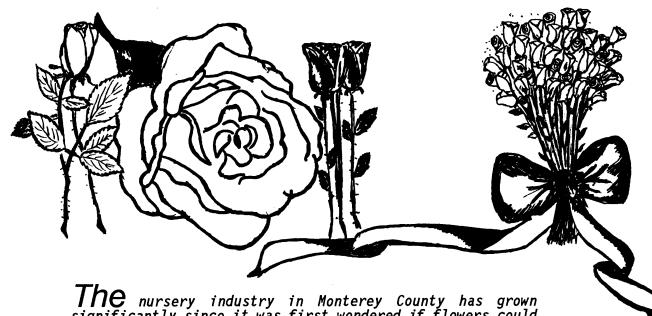
Bean seed production accounts for the largest portion of seed produced in Monterey County. Much of this seed is used for crop production in other states and foreign countries. This requires official verification that the seed crop is in compliance with the seed pest standards of states or countries receiving shipments of this seed. The Monterey County Agricultural Commissioner's Office is responsible for field inspections and during the growing season and for issuing phytosanitary certificates when the seed crop meets the requirements of the importing countries or states.

SEED CROPS

CROP	<u>YEAR</u>	<u>ACREAGE</u>	PRODU PER ACRE	CTION TOTAL	UNIT	F.O.B. <u>PER UNIT</u>	VALUE TOTAL
ASPARAGUS	1990 1989	* 24	0.13	3	Ton "	\$ 2,700.00	\$ 8,100
BARLEY	1990 1989	* 850	0.89	758	11 11	126.00	95,500
BEANS (All)	1990 1989	3,430 2,630	1.07 1.13	3,665 2,965	11 11	1,020.00 1,012.00	3,738,000 3,001,000
BROCCOLI	1990 1989	157 92	0.13 0.16	20 15	11 11	29,000.00 19,196.00	580,000 288,000
CAULIFLOWER	1990 1989	95 62	0.22 0.19	21 12	11 11	27,000.00 15,272.00	567,000 183,000
CORN	1990 1989	* 80	0.70	56	11 11	1,949.00	109,000
OAT	1990 1989	* 390	0.63	247	n n	310.00	76,600
PEA	1990 1989		0.17	3	<i>11</i>	5,621.00	16,900
PEPPER	1990 1989		0.14 0.20	3 6	n n	24,000.00 50,000.00	72,000 300,000
WHEAT	1990 1989	* 145	2.68	389	<i>11</i>	134.00	52,000
MISC. SEED**	1990 1989						1,244,000 96,400
TOTAL ACRES	1990 1989			TAL VALU SEED CROP		1990 1989	\$6,201,000 4,226,500

^{*} Insufficient to Report

** Misc. Seeds includes Cucumber, Squash, Onion, Flowering Kale, Carrot,
Asparagus, Pea, Oats, Barley, Wheat, Corn, Tomato, Parsley, Radish
and other.



The nursery industry in Monterey County has grown significantly since it was first wondered if flowers could grow in the Monterey Bay area. The same moderate temperatures, good air quality and winter sunshine that make Monterey County a pleasure for its citizens, make it the ideal climate to grow nursery stock. Monterey County nurseries produce potted plants, field-grown nursery stock, Christmas trees specialty bulbs and plants, as well as over 75 different varieties of cut flowers.

The nursery contributes to our local economy in more ways than one. Not only do the sales of these commodities benefit the sellers, they also benefit farm laborers. Many of the crops grown for the nursery trade require energy intensive labor year-round.

Additionally, the benefits do not just reside in Monterey County. More than 80% of the flowers grown in Monterey are exported out of California, less than 20% stay in California and less than 1% are enjoyed here in the area. The success of Monterey County's cut flower growers results from the general sentiment that a gift of flowers expresses caring, friendship and love.



NURSERY CROPS

<u>CROP</u>	<u>YEAR</u>	<u>ACREAGE</u>	AMOUNT SOLD BLOOMS SOLD	<u>AVERAGE PRI</u> PER BLOC	
CUT FLOWERS					
Rose	1990	159.36	89,138,000	\$0.2684	\$23,925,000
	1989	146.89	70,900,000	0.2700	19,143,000
Miniature Rose	1990	10.78	10,799,000	0.1826	1,972,000
	1989	12.48	8,360,000	0.1637	1,369,000
Carnation	1990	210.97	129,268,000	0.1425	18,421,000
	1989	206.19	132,718,000	0.1331	17,665,000
Chrysanthemum	1990	24.66	6,701,000	0.4320	2,895,000
(Standard)	1989	25.34	6,956,000	0.4073	2,833,000
			BUNCHES SOLD	PER BUNCH	
Carnation	1990	34.16	2,336,000	1.453	3,394,000
(Miniature)	1989	39.95	2,385,000	1.312	3,129,000
Cut Flowers	1990	7.32	836,000	1.28	1,070,000
(Misc.)	1989	4.63*	61,000	1.50	91,500
TOTAL INDOOR CUT FLOWERS	1990 1989	447.25 453.85			\$51,677,000 44,230,500

^{*} Corrected 1989 figure

NURSERY CROPS - Continued

<u>CROP</u>	<u>YEAR</u>	<u>ACREAGE</u>	AMOUNT SOLD	AVERAGE PE	RICE TOTAL
		BL	OOMS SOLD	PER BLOOM	
Alstroemeria	1990	20.69	636,000	\$2.35	1,495,000
BEDDING PLANTS Vegetable Commercial	1990 1989	99.81 80.16			11,521,000 8,629,000
Callas	1990	75.98	1,620,000	1.14	1,847,000
Eucalyptus	1990	169.17	1,121,000	2.46	2,758,000
FOLIAGE (All)	1990* 1989	188.80			2,698,000
Gypsophila	1990 1989	16.00 22.50	38,850 131,000	1.97 1.60	76,500 210,000
Iris	1990 1989	64.83 65.29	1,016,000 1,003,000	1.61 1.96	1,636,000 1,966,000
POTTED PLANTS					
Poinsettia	1990	13.53	1,886,000	1.96	3,697,000
Miscellanous** Indoor Decorative	1990 1989	40.34 54.72	6,665,000 6,467,000	1.95 2.60	12,997,000 16,814,000
Outdoor Woody Ornamentals	1990 1989	45.75 20.70	1,426,000 296,000	2.73 7.10	3,893,000 2,102,000
PROPAGATIVE STOCK, MISC. FIELD CROPS, SUCCULENTS, BULBS	*** 1990 1989	532.77 484.25			20,070,000 23,963,000

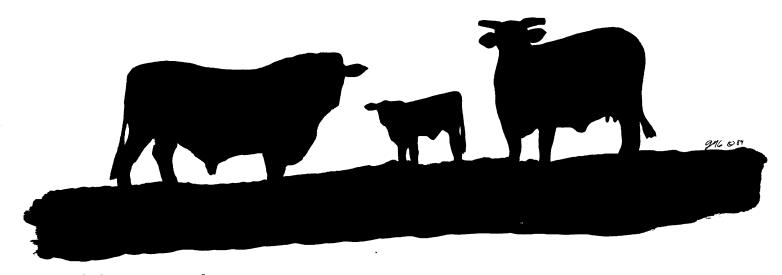
^{*}In Miscellanous Field Crops **Includes Saintpaulia, Gloxinia, Potted mums, Seasonal potted plants (Easter Lily, etc), Spathiphyllum, Dieffenbachia, Ficus sp., etc.

^{***}Includes Heather, Snapdragons, Thistle varieties, Column stock, Godetia, Agapanthus, Foxglove, Sunflower, Larkspur, Leptospermum, Myrtle, Curly Willow, Catus, Succulents, Cornflower, strawflower, Stock, Yarrow, Freesia Strelitzia, Turf, Orchids, Cactus, Commercial nursery propagative Stock, Dianthus and etc.

NURSERY CROPS - Continued

<u>CROP</u>	<u>y</u>	<u>'EAR</u>	<u>ACRE AGE</u>	AMOUNT S	<u>OLD</u> <u>AV</u>	'ERAGE PRIC	<u>E TOTAL</u>
			E	BLOOMS SOLD	PE	R BLOOM	
Seafoam	19	90	10.50	61,6	5 0 1	.40	86,300
Statice		990 989	32.58 34.50	407,3 357,0		1.30 1.09	530,000 389,000
				TREES S	OLD PEF	R TREE	
CHRISTMAS TREES		990 989	103.00 96.00	8,0 8,7).45).50	164,000 179,000
TOTAL ACRES			1,672.20 1,480.07		TOTAL VAI URSERY CH	LUE \$1 ROPS	112, 4 47,800 101,108,500
			A	PIARY			
<u>CROP</u>	<u>YEAR</u>	<u>C01</u>	<u>LONIES</u>	<u>PRODUCTION</u>	<u>UNIT</u>	<u>F.O.B.</u> PER UNIT	<u>VALUE</u> <u>TOTAL</u>
APIARY							
Total	1990 1989						\$ 80,780 69,980
Honey	1990 1989			35,000 45,000	POUND "	\$ 0.50 0.50	17,500 22,500
Pollination*	1990 1989		,600 ,100		COLONY	24.00 22.00	62,400 46,200
Wax	1990 1989			1,100 1,600	POUND	0.80 0.80	880 1,280
			TOTAL	VALUE APIAR	PΥ	1990 1989	\$ 80,780 69,980

^{*}Crops Pollinated: Apple, Cucumber, Cauliflower, Broccoli, Onion, Squash, Carrot, Spinach, Pepper, Fava bean, Parsely and Melon.



Livestock originally came to California along with Father Serra and the founding of the missions in the late 1700's. The only value of cattle in those days was for tallow and hides, which had to be transported to the east coast or to the Orient. Because of the sparse population and no means of preservation, the meat itself was of minimal value.

With the coming of the California Gold Rush, the transcontinental railroad, the settlement of the farmlands, and the development of the seaports, the surge of population increased the need for meat. With the invention of barbed wire, livestock could be confined and grazing was intensified. With the unpredictable drought years producing no feed, stock then had to be moved or died. The majority of south Monterey County was utilized by stocker cattle mainly in the spring when there was ample feed and water. Because of a large fluctuation in the price of stocker cattle, some years there was money made, but in others, ranches were lost. By the 1950's, most ranches were keeping a cow herd and raising their own weaners by utilizing grain stubble, irrigated crop by-products, and irrigated pastures.

A change in marketing from 3-4 years olds to yearlings increased the percentage of cattle in the Monterey County area. Management practices were also responsible for this increase, including water development, fencing, disease control, crossbreeding and feedlots with grain, hay, and by-products utilization.

With intensified drought conditions for the last 5-6 years, many cattle have been sold or moved out of Monterey County, with fewer coming back each year. Prices have held up very well, but this profit has gone towards more feed, pasture, and transportation.

The cow population in Monterey County will never match the numbers of the 1940's-1960's due to increased urban pressure, less land available, bankers who are not willing to loan to longer term operations, and drought-related effects on seasonal grasslands.

The old time cattle barons are gone. In their place are strong, progressive cattlemen and women who take an active part in county, state, and national government. The cattle industry is responsible for a substantial contribution to the economy of Monterey County.

Bob Wilson, President Monterey County Cattlemens Association

LIVESTOCK, POULTRY, & DAIRYING

<u>CROP</u>	<u>YEAR</u>	<u>HEAD</u>	<u>PRODUCTION</u>	<u>UNIT</u>	F.O.B. <u>PER UNIT</u>	VALUE <u>TOTAL</u>
BEEF CATTLE Total	1990 1989	110,650 140,250		CWT	\$	\$40,152,000 43,040,000
Cattle &	1990	55,750	367,950	#	76.00	27,964,000
Calves	1989	60,600	400,000	#	66.00	26,400,000
Feeder	1990	25,000	70,000	#	78.00	5,460,000
	1989	35,000	98,000	#	73.00	7,154,000
Stocker	1990	29,900	74,750	11	90.00	6,728,000
	1989	44,650	111,600	11	85.00	9,486,000
SHEEP & LAMBS	1990	2,500	3,500	11	55.00	192,000
	1989	2,800	4, 000	11	60.00	240,000
WOOL	1990 1989		20,000 25,200	POUND	0.25 0.70	5,000 17,600
HOGS	1990	1,400	266,000	11	0.50	133,000
	1989	1,600	304,000	11	0.40	122,000
DAIRYING COWS	1990	4,230		Head	1,025.00	4,336,000
Breeding Stock	1989	5,500		"	1,000.00	5,500,000
Cull Cows	1990 1989	861 718		# #	668.00 575.00	575,000 413,000
Calves	1990 1989	976 1,800		# #	95.00 75.00	92,700 135,000
Fertilizer	1990 1989		15,060 17,760	TON "	6.00 6.00	90,400 107,000
MILK, Market	1990		728,625	CWT	11.80	8,598,000
Marketed	1989		806,225	"	10.88	8,772,000
Manufactured	1990 1989		1,015 600	# #	11.05 9.89	11,200 5,900

LIVESTOCK, POULTRY, & DAIRYING, Continued

<u>CROP</u>	<u>YEAR</u>	<u>HEAD</u>	<u>PRODUCTION</u>	<u>UNIT</u>	F.O.B. <u>PER UNIT</u>	VALUE <u>TOTAL</u>
GOATS Breeding Stock	1990 1989	450 500		HEAD "	250.00 250.00	112,000 125,000
Cull Goats	1990 1989	450 300		11 11	40.00 40.00	18,000 12,000
Kids	1990 1989	1,100 1,325		11 11	25.00 35.00	27,500 35,000
CHICKENS Total	1990 1989	404,200 392,815				1,237,560 1,271,000
Broilers, Fryers, Roasters		400,000 390,000	3,000,000 3,088,800	POUND:	0.41 0.41	1,230,000 1,266,000
Meat Hens	1990 1989	4,200 2,815	18,900 14,080	11 11	0.40 0.40	7,560 5,600
MISC. POULTRY*	1990 1989					390,000 430,000
EGGS	1990 1989		609,000 255,900	DOZEN	0.92 0.88	560,000 225,000
		VALUE LIV Y, & DAIR			1990 1989	56,530,360 60,451,100

^{*}Includes Pullets, Fryers, Ducklings, Goslings, Duck eggs, Quail eggs and others

TREND OF MAJOR CROPS IN MONTEREY COUNTY

<u>CROP</u>	<u>YEAR</u>	<u>ACRES</u>	<u>VALUE</u>
ARTICHOKES Fresh & Processing	1990 1985 1980	6,970 9,187 7,890	\$23,147,800 30,555,000 26,652,400
BROCCOLI Fresh & Processing	1990 1985 1980	48,600 54,805 43,395	129,195,000 129,332,000 74,147,000
CARROTS Fresh & Processing	1990 1985 1980	3,180 6,956 5,330	11,401,000 22,103,000 15,775,000
CAULIFLOWER Fresh & Processing	1990 1985 1980	22,340 21,815 18,180	85,115,000 62,239,000 40,514,000
CELERY Fresh & Processing	1990 1985 1980	7,290 5,409 6,430	53,346,000 39,380,000 33,005,000
GRAPES	1990 1985 1980	25,247.95 28,646.91 33,724.40	63,719,000 38,321,000 36,885,000
LETTUCE	1990 1985 1980	78,811 62,640 67,684	415,748,000 271,851,000 202,513,000
MUSHROOMS	1990 1985 1980	46,412,000 POUNDS 41,774,000 " 20,876,000 "	42,699,000 38,432,000 18,079,000
NURSERY CROPS	1990 1985 1980	1672.20 890.32 832.25	112,447,800 77,687,000 53,215,000
STRAWBERRIES Fresh & Processing	1990 1985 1980	5,830 3,500 2,785	181,459,000 93,619,000 45,279,000
TOMATOES Fresh & Processing	1990 1985 1980	7,770 4,565 6,720	28,471,000 16,377,000 27,254,000

MILLION DOLLAR CROPS

1990

1.	LETTUCE, HEAD	325,019,000 293.295
2.	STRAWBERRIES	181,459,000 158,261 Z
3.	DDA 4 4 4 4 7	120 105 000 125 017
		129,195,000 /35.917 112,447,800 /23,3//
4.	NURSERY	112,447,800 /23.3// 90,729,000 99.74/
5.	LEAF LETTUCE	90,729,000 49.741
<u>6</u> .	CAULIFLOWER	85,115,000 86.786
7.	GRAPES	63,719,000 73,808 7 53,346,000 39,848 9
8.	CELERY	53,346,000 39,848 9
9.	MUSHROOMS	42,699,000 36.927 10
10.	CATTLE	40.152.000
11.	FOOD SERVICE PRODUCTS	32,988,000 46.121 8
12.	TOMATOES	28,471,000
13.	SALAD PRODUCTS SHREDDED	24,154,000
14.	ARTICHOKES	23,147,800
15.	ASPARAGUS	16,694,000
16.	SPINACH	14,099,000
17.		12,076,000
	PEPPERS, CHILI	13,976,000
18.	RASPBERRIES	12,257,000
19.	CARROTS	11,401,000
20.	ONIONS, GREEN	10,498,000
21.	MILK, MARKETED	8,598,000
22.	PASTURE LAND, DRY	7,199,000
<i>23</i> .	SEEDS	6,201,000
24.	PARSLEY	5,408,000
<i>2</i> 5.	BRUSSELS SPROUTS	4,709,000
<i>26</i> .	SUGAR BEETS	4,223,000
27.	ANISE	3,334,000
28.	NAPA	2,880,000
29.	POTATOES	2,700,000
<i>30</i> .	BEANS, DRY	2,656,000
31.	RADISH	2,392,000
<i>32</i> .	HAY, ALFALFA	1,903,000
33.	CONTRACT	1,881,000
	SQUASH	
34.	PEPPERS, BELL	1,721,000
<i>35</i> .	CABBAGE, GREEN	1,619,000
<i>36</i> .	KALE	1,426,000
<i>37</i> .	RADICCHIO	1,418,000
<i>3</i> 8.	BARLEY	1,254,000
<i>39</i> .	CHICKENS	1,237,560
<i>40</i> .	GARLIC	1,219,000
42.	ONIONS, DRY	1,016,000

SUMMARY

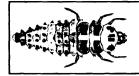
FRUITS & NUTS	1990 1989	\$ 260,420,200 174,908,200
VEGETABLE CROPS	1990 1989	943,395,800 844,523,000
FIELD CROPS	1990 1989	18,523,000 20,535,600
SEED CROPS	1990 1989	6,201,000 4,226,500
APIARY	1990 1989	80,780 69,980
NURSERY CROPS	1990 1989	112,447,800 101,180,500
LIVESTOCK, POULTRY, AND DAIRYING	1990 1989	56,530,360 60,451,100
	TOTAL - 1990 1989	\$1,397,598,940 1,205,894,880

SUMMARY OF TOP 20 PRODUCE EXPORTS FOR 1990

		1988 <u>POUNDS</u>	1989 <u>POUNDS</u>	1990 <u>POUNDS</u>
1.	BROCCOLI	2,433,094	7,676,189	25,813,127
2.	LETTUCE	4,721,375	7,178,641	12,033,891
3.	CELERY	7,397,072	6,130,232	15,528,091
4.	TOMATO	62,900	943,477	6,997,570
5.	STRAWBERRY	5,537,822	4,377,158	4,328,829
6.	POTATO	. 0	0	4,191,210
7.	ONION	3,469,020	4,516,231	4,125,545
8.	CARROT	592,221	1,916,005	3,009,868
9.	ASPARAGUS	2,413,767	1,544,646	2,337,646
10.	CABBAGE	701,463	1,840,057	2,270,566
11.	CAULIFLOWER	128,934	205,905	2,202,665
12.	GARLIC	83,170	625,755	965,809
13.	BEAN	78,390	46,550	2 35,535
14.	RASPBERRY	287,130	214,235	186,976
15.	RADI SH	1,692	84,003	159,480
16.	LEAF LETTUCE	. 0	0	102,694
17.	PARSLEY	1,599	17 ,6 81	97,081
18.	SPINACH	20,256	31,565	65,679
19.	ROMAINE	29,086	29,702	55,787
20.	GREEN ONION	22,049	19,178	29,626
<u>AL</u>	<u>L SEED</u>	6,429,660	28,585,242	7,212,720
NU	<u>IRSERY</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>
Cut	Flower (# of stems)	1,908,379	2,313,331	2,982,947
0the	r Nursery Plants	1,881,596	10,573,707	8,400,213

SUMMARY OF PRODUCE EXPORTS BY COUNTRY

		1988 <u>POUNDS</u>	1989 <u>POUNDS</u>	1990 <u>POUNDS</u>
1.	TAIWAN	6,462,844	10,328,347	36,024,739
2.	JAPAN	11,286,915	12,979,539	29,547,480
3.	MEXICO	1,005,682	3,911,961	25,0 35,335
4.	GREAT BRITAIN	2,903,557	2,079,421	3,799,167
5.	GUAM	1,712,785	2,876,703	2,1 88,815
6.	UNITED ARAB EMIRATES	352,880	235,251	2,10 8,206
7.	SAIPAN	214,198	424,540	1,747,584
8.	ITALY	492,208	168,115	1,372,207
9.	PANAMA	382,500	1,450,000	1,337,500
10.	NETHERLANDS	803,712	120,660	1, 0 71,000
11.	KUWAIT	502,913	1,567,128	925,250
12.	FEDERAL REPUBLIC OF GERMANY	757,555	577,974	695,0 81
13.	AUSTRALIA	492,465	634,636	427,494
14.	SAUDI ARABIA	306,229	274,455	404,978
<i>1</i> 5.	SWEDEN	0	19,008	320,603
16.	BAHRAIN	118,022	215,253	215,486
17.	PHILIPPINES	0	112,946	184,110
18.	PEOPLE'S REPUBLIC OF CHINA	0	81,500	123,180
19.	TAHITI	45,000	402,843	11,160
20.	DENMARK	0	64,806	5,060



SUMMARY OF MONTEREY COUNTY SUSTAINABLE AGRICULTURAL ACTIVITIES



PEST

Malacosoma americanum

AGENT/MECHANISM SCOPE OF PROGRAM (1)

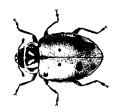
COUNTY BIOLOGICAL CONTROL

Yellow Starthistle <u>Centaurea</u> <u>solstitialis</u>	Seed Weevil	2 sites 250 weevils released
Russian Thistle <u>Salsola</u> <u>australis</u>	Stem mining moth <u>Coleophora</u> parthenica	2 sites
	Case bearing moth <u>C.</u> <u>klimeschiella</u>	5 sites
Puncture vine <u>Tribulus</u> <u>terrestris</u>	Stem & Seed Weevils <u>Microlarinus lypriformis</u> &	17 sites
	<u>M.</u> <u>lareynii</u>	
Aphid species	Seven-spotted Lady Beetle <u>Coccinella</u> <u>septempunctata</u>	l site 10,000 beetles released
Lettuce Root Aphid <u>Pemphigus</u> <u>bursarius</u>	Alternate host destruction	1134 poplar trees removed
PEST ERADICATION		
Taurian thistle <u>Onopordum</u> tauricum	Mechanical	54 plants removed
Scotch thistle <u>Onopordum</u> <u>acanthium</u>	Mechanical	338 plants removed
Dalmatian toadflax <u>Linaria</u> <u>dalmatica</u>	Mechanical	1 plant removed
Diffuse Knapweed <u>Centaurea</u> <u>diffusa</u>	Mechanical	22 plants removed
PEST EXCLUSION		
Green shield scale <u>Pulvinaria psidii</u>	Truck shipment/ cut flowers	1 rejected/destroyed
Soft scale <u>Philephedra</u> <u>tuberculosa</u>	Truck shipment Spathiphyllum	1 rejected/destroyed
Tent caterpillar	Household goods	1 rejected/destroyed

⁽¹⁾ Represents total number of individual sites, plants, etc, incorporated in program effort (surveys, collection, releases, etc.)

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ORGANIC FARMING STATISTICS

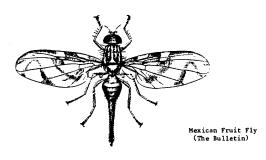


Lady beetles (Courtesy U.S.D.A.

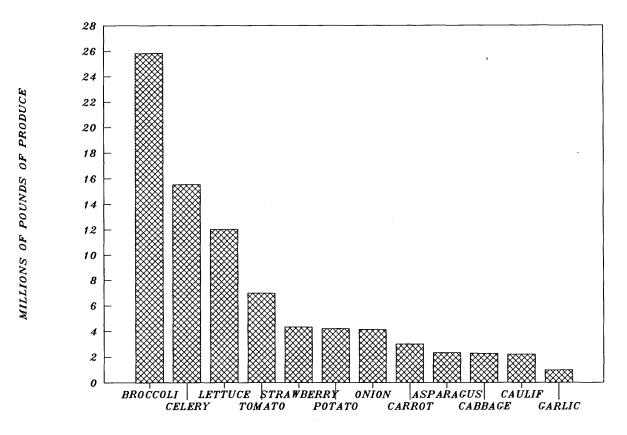
Monterey County organic farming statistics include 15 growers farming approximately 900 acres and producing commodities ranging from artichokes, strawberries to head lettuce and salad products to herbs and miscellaneous vegetables.

PEST DETECTION

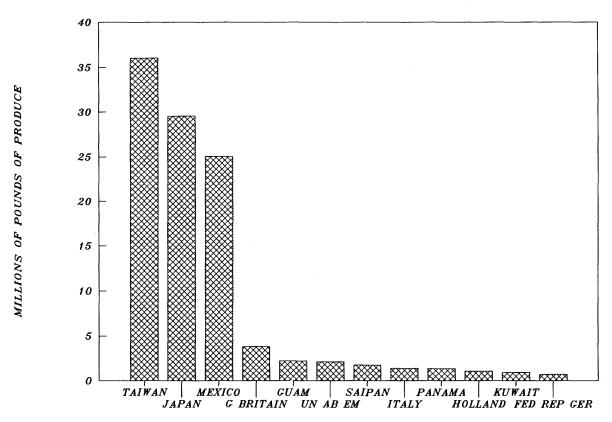
TARGET PEST	INSECT HOST	NUMBER OF SITES
Trogoderma Beetle	Grain	43
Africanized Honey Bee	High Risk Area	4
Medfly	Fruit Trees	470
Oriental Fruit Fly	Fruit Trees	120
Mexican Fruit Fly	Fruit Trees	135
Melon Fruit Fly	Vegetable Gardens	100
All Purpose Fruit Fly	Fruit Trees	<i>250</i>
Japanese Beetle	Turf, Roses	200
Gypsy Moth	Shade Trees	300
European Corn Borer	Corn	6
Nantucket Pine Tip Moth	Monterey Pine	12
European Pine Shoot Moth	Pine Trees	6



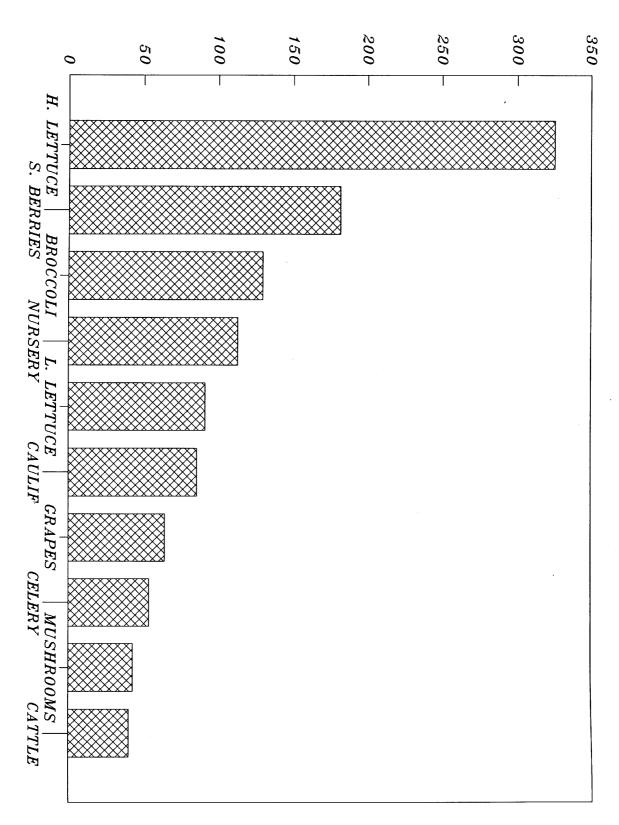
TOP 12 PRODUCE EXPORTS FOR 1991



TOP 12 IMPORTING COUNTRIES FOR 1991







MONTEREY COUNTY AGRICULTURE

TOTAL VALUE \$ 1,397,598,940

