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California Department of Food and Agriculture

Agricultural Commissioners' Crop Reports

Fresno County

1990-1999

California County Agricultural Commissioners' Reports from the California Department of Food and Agriculture. This collection consists of annual crop and livestock data from each of the 58 California Counties. The collection covers 1915-1981; digitization of the rest of the collection is forthcoming.

This digitization project was funded by the Giannini Foundation of Agricultural Economics,
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Department of Agriculture

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

Cosmo C. Insalaco
Agricultural Commissioner
Sealer of Weights & Measures

The Honorable Board of Supervisors
County of Fresno

Deran Koligian, Chairman
Judy Andreen Sharon Levy
A. Vernon Conrad Doug Vagim

Daniel R. Fitzpatrick
County Administrative Officer

I am pleased to submit the 1990 Fresno County Agricultural Crop and Livestock Report. This annual compilation presents statistical data pertaining to the acreage, yield, and gross value of Fresno County agricultural products.

The total gross production value of Fresno County agricultural commodities in 1990 was \$2,950,597,000.00. This is a new record high and reflects a 13.15 percent increase over 1989.

It must be emphasized that values presented in this report reflect gross values only, and are not in any manner direct indications of net income or loss to producers.

1990 was the fourth consecutive drought year experienced by Fresno County producers and resulted in increasing negative impact of varying degree to the entire agricultural industry in the county. Irrigation water supplies, particularly our underground aquifer, are being severely stressed. Drought related concerns, both immediate and long term, are being given serious consideration and attention. An Arctic cold front and accompanying record freezing temperatures caused serious damage and significant losses to Fresno County's agricultural industry during late December.

Agriculture continues as the major industry in Fresno County and is a driving force in the county's economy. Every dollar received by Fresno County producers results in three and one-half dollars economic extension benefit to the total economy of the county.

I sincerely appreciate the professional and dedicated work performed by Deputy Agricultural Commissioner/Sealer Dennis C. Plann; Supervising Agricultural/Standards Specialist L.V. Hawley; Agricultural/Standards Specialists Thomas M. Schackmann and Scotti E. Abell, as well as the staff of the Agricultural Commissioner/Sealer's Office for the preparation of this report.

My thanks to the many individuals, related agencies and members of the agricultural industry for their contributions in the compilation of this report.

Best Regards,

A handwritten signature in cursive script, appearing to read "Cosmo C. Insalaco".

Cosmo C. Insalaco
Agricultural Commissioner/Sealer

"The great cities rest upon our broad and fertile plains. Burn down your cities and leave your farms, and your cities will spring up again as if by magic, but destroy our farms and the grass will grow in the streets of every city in the nation."

William Jennings Bryan

"The improvement of quality in products and the improvement of quality in service - these are national priorities as never before."

President George Bush

FRESNO COUNTY'S 10 LEADING CROPS

Crop	1990 Rank	1990 Dollar Value	1989 Rank	1980 Rank	1970 Rank
GRAPES	1	455,582,000	1	1	1
COTTON	2	453,034,000	2	2	2
TOMATOES	3	246,400,000	3	6	14
TURKEYS	4	191,174,000	6	5	10
MILK	5	148,423,000	4	4	5
CATTLE & CALVES	6	134,442,000	5	3	3
PLUMS	7	118,428,000	9	7	8
ORANGES	8	92,885,000	10	10	13
PEACHES	9	92,393,000	11	13	7
CANTALOUPE	10	87,750,000	7	11	6

1990 Retrospect Highlights

The continuing drought conditions and resultant varied impact on all segments of the County's agricultural industry have been traumatic. 1990 was the fourth consecutive year of the longest drought California has experienced since the 1930's. Rangeland livestock producers on both the east and westside of the County have been particularly affected. Financial assistance has been made available to qualified growers.

Surface irrigation water supplies were severely restricted in 1990, and the resultant increase in overdraft pumping from the underground aquifer has exacerbated the falling water level problem to the extent that some wells failed completely, while many others produced only partial discharge capacity. Well drilling, reconditioning, and deepening is extremely active throughout the County.

Grower production costs increased dramatically in 1990. In some instances all financial reserves have been committed with questionable returns from 1991, due to the uncertainty and known shortage or lack of irrigation water. Many producers are borrowed to their financial hilt, but still find themselves on the edge of financial disaster.

The devastating record-breaking freeze of late December, 1990, further traumatized the already overstressed agricultural industry. Losses totaling nearly \$100,000,000 were sustained by citrus, vegetables, nursery and ornamental crops, nut trees, olives, avocados and varied row and field crops. Freeze damage financial assistance has been made available to qualified individuals.

Agriculture in Fresno County is in jeopardy. Freeze damage combined with the crisis nature of the ongoing drought threatens the County's financial mainstay - agriculture, which is the life blood of the County.

Agricultural products loss is only an immediate portion of our loss. Thousands of workers and hundreds of businesses are being severely affected in terms of lost jobs and income.

ORGANIC GROWING - THE NEWEST INDUSTRY

Organic farming in Fresno County is very rapidly becoming increasingly important as the demand for "organically-produced products" accelerates and as additional growers seriously consider organic production. There has been considerable expansion of interest expressed by growers in determining and becoming aware of the specific rules and regulations that will be an integral and mandated requirement for growers' products to meet the regulatory criteria definition of "organic production" as presented on AB 2012.

FIELD CROPS: Total gross returns for all field crops increased from \$42,970,000 to \$597,457,000 and acreage increased by 7,740 acres. For the third consecutive year cotton was the number two crop in terms of gross returns. Returns from lint and seed increased \$54,071,000 to \$453,034,000; acreage increased by 33,000 acres. This increase in harvested acreage together with an additional four cent increase in return per pound of lint offset the 70 pound decrease in yield per acre. Alfalfa hay gross returns increased 22.00 percent to \$73,542,000. This increase was largely due to a 17.05 percent increase in price per ton. The value of sugar beets decreased by \$11,116,000 to \$18,432,000 reflecting a decrease in harvested acreage, yield and price per ton.

SEED CROPS: Total gross returns increased to \$53,078,000, although the total number of harvested acres decreased 9.55 percent to 66,310 acres. Seed alfalfa acreage decreased 12.09 percent to 40,000 acres, yields were slightly better than in 1989. Returns per pound for both certified

and noncertified seed increased significantly. Total returns for vegetable seed increased 83.10 percent to \$3,891,000.

VEGETABLE CROPS: The total gross returns for all vegetable crops increased by \$91,801,000 to \$605,544,000. Harvested acreage of all vegetable crops increased by 41,045 acres. For the third consecutive year tomatoes were the number three crop in terms of gross returns. Processing tomato acreage increased by 31,600 acres or 43.65 percent. This increase in acreage combined with an increase in yield compensated for the reduction in return per ton. Head lettuce acreage decreased while gross returns increased to \$81,608,000. This jump of 27.18 percent was the result of increases in both yields per acre and returns per ton in the spring and fall harvests. Although cantaloupe acreage increased 5,200 acres the total gross returns decreased 4.18 percent or \$3,825,000. This reduction was the result of both a lower yield per acre and a reduction of \$25.00 in returns per ton.

FRUIT AND NUT CROPS: Total gross returns rose \$85,004,000 to \$940,919,000. Grapes continued as the number one crop for the third year in a row, even though gross returns decreased by \$9,334,000 to \$455,582,000. Raisin varieties overall yield declined 6.16 percent. Raisin production decreased by 16,000 tons; returns were reduced by \$25.00 per ton to \$880. The 21.81 percent increase in table varieties gross returns reflects the increase in price per ton for fresh utilization and the slight increase in yield. Gross returns for wine varieties increased \$1,554,000 to \$54,910,000. Harvested acreage and returns per ton both decreased while the yield increased 22.53 percent or 1.89 tons per acre. Oranges gained two places and moved into the number eight position. Gross returns increased 33.56 percent or \$23,340,000. This reflects a 40.43 percent increase in yield of navels combined with increases in acreage and return per ton for both navel and Valencias. Plum returns increased 66.26 percent to \$118,428,000, reflecting an increase of 27.10 percent in yield and a 31.29 percent increase in return per ton. Peaches increased in value 33.19 percent to \$92,393,000, placing it ninth in the rankings of Fresno County's ten leading crops.

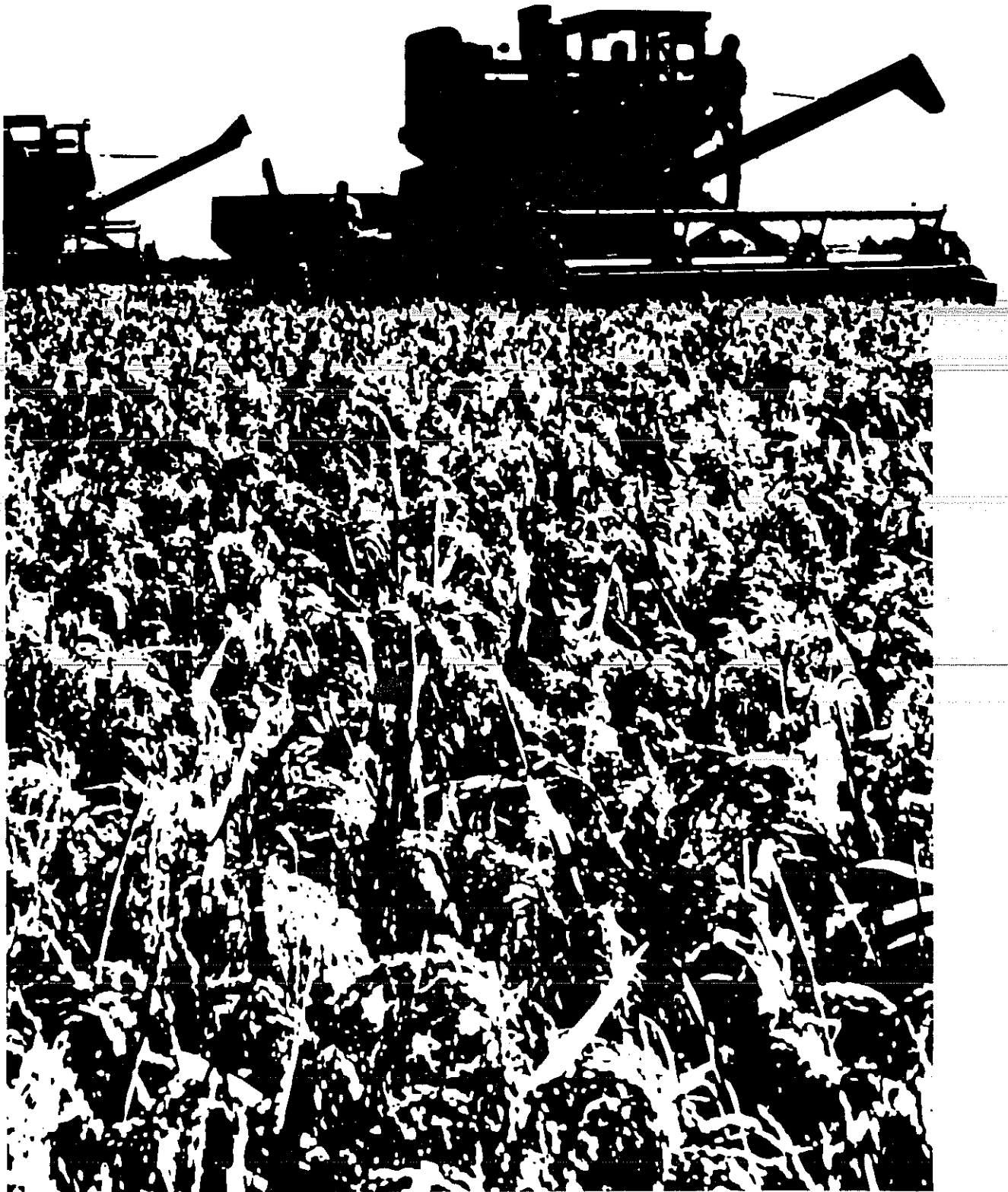
NURSERY PRODUCTS: The gross returns from the sale of nursery products increased 33.09 percent or \$4,524,000 to \$18,194,000. Acreage increased 9.65 percent to 500 acres. Production and gross returns increased in herbaceous ornamentals and other nursery crops which includes bareroot fruit & nut trees, grape rootings and vegetable plants.

LIVESTOCK AND POULTRY: Total gross returns increased 22.63 percent or \$102,287,000 to \$554,289,000. This significant increase was largely due to the 47.92 percent increase in the number of turkeys marketed. Turkeys gained two more positions on the county's ten leading crop list and are now the fourth ranked crop in the county. Total gross returns increased \$84,474,000 or 79.17 percent to total \$191,174,000.

LIVESTOCK AND POULTRY PRODUCTS: The total gross returns from livestock and poultry products increased \$9,044,000 to \$162,179,000. The value of milk, the number five crop, increased 4.20 percent to \$148,423,000. The gross returns from eggs increased \$1,423,000.

APIARY PRODUCTS AND POLLINATION SERVICES: Gross returns increased 10.58 percent or \$655,000 to \$6,844,000. Returns from honey sales increased 41.48 percent to \$1,129,000. Increased production of 69.27 percent offset the reduction in average return per pound.

INDUSTRIAL CROPS: Timber returns increased 98.05 percent or \$5,987,000 to \$12,093,000. This reflects an increase of 9.19 percent in the number of board feet harvested coupled with an increase in the price paid per board feet.



FIELD CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Barley	1990	15,200	1.80	27,400	ton	\$ 115.00	\$ 3,151,000
	1989	22,300	2.00	44,600	ton	\$ 113.00	\$ 5,040,000
Beans,dry	1990	13,000	1.07	13,900	ton	650.00	9,035,000
	1989	12,000	.99	11,900	ton	690.00	8,211,000
Corn							
Grain	1990	4,200	4.05	17,000	ton	112.00	1,904,000
	1989	8,700	3.79	33,000	ton	109.00	3,597,000
Silage	1990	13,300	22.03	293,000	ton	18.00 ^g	5,274,000
	1989	10,600	25.00	265,000	ton	16.00 ^g	4,240,000
Cotton							
Lint	1990	369,000 ⁱ	1,360 ^a	1,004,000 ^b	bale	.76 ^c	384,572,000
	1989	336,000 ⁱ	1,430 ^a	961,000 ^b	bale	.72 ^c	348,728,000
Seed	1990			398,000	ton	170.00	67,660,000
	1989			381,000 [*]	ton	130.00	49,530,000 [*]
Hay							
Alfalfa ^d	1990	79,300	9.00	714,000	ton	103.00	73,542,000
	1989	77,000	8.90	685,000	ton	88.00	60,280,000
Other ^e	1990	22,900	1.88	43,000	ton	63.00	2,709,000
	1989	21,800	1.25	27,300	ton	80.00	2,184,000
Pasture and Range							
Alfalfa Stubble ^f	1990	70,000			acre	13.00	910,000
	1989	70,000			acre	13.00	910,000
Irrigated Pasture	1990	50,000			acre	110.00	5,500,000
	1989	50,000			acre	110.00	5,500,000
Grazing Range	1990	900,000			acre	7.00	6,300,000
	1989	900,000			acre	7.00	6,300,000

FIELD CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Rice	1990	6,200	3.19	19,800	ton	\$200.00	\$ 3,960,000
	1989	6,100	2.70	16,500	ton	\$160.00	\$ 2,640,000
Safflower	1990	6,600	1.70	11,200	ton	250.00	2,800,000
	1989	9,500	1.60	15,200	ton	300.00	4,560,000
Sugar Beets	1990	20,000	25.60	512,000	ton	36.00	18,432,000
	1989	24,200	30.00	726,000	ton	40.70	29,548,000
Wheat	1990	30,500	2.87	87,500	ton	119.00	10,413,000
	1989	43,300	3.16	137,000	ton	147.00	20,139,000
Other ^b	1990	7,940					1,295,000
	1989	<u>8,900</u>					<u>3,080,000</u>
Total	1990	1,538,140					\$597,457,000
	1989	1,530,400					\$554,487,000*

a Pounds of lint per acre

b 500 pounds lint per bale

c Price per pound, 504 pounds gross weight per bale

d Includes bales, cubes, and green chop

e Includes hay and green chop from barley, oats, seed alfalfa and wheat

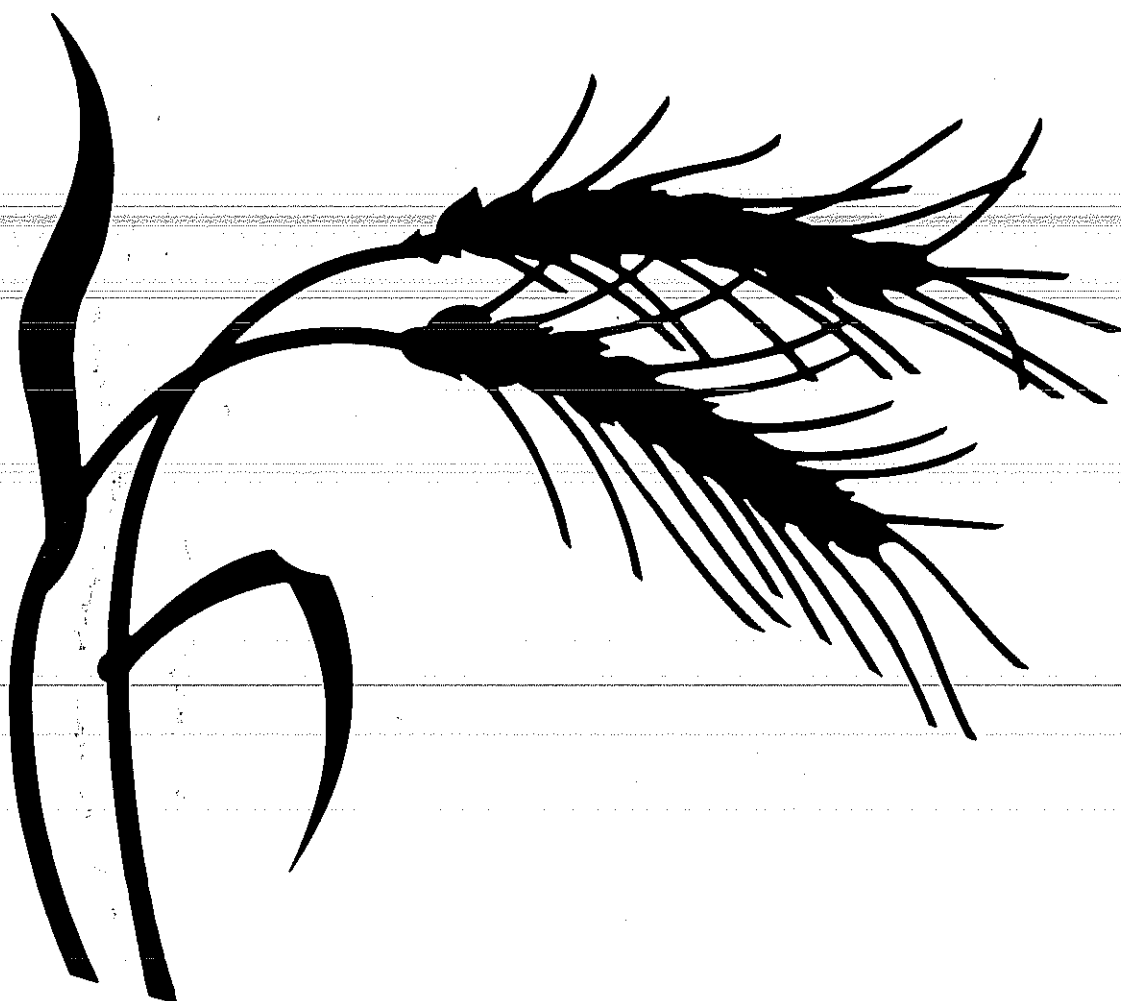
f Not included in total acreage figures; includes acreage from alfalfa hay and seed alfalfa

g Field price

h Includes oats, screenings, straw, sudan and winter forage

i Includes 6,255 acres pima cotton

* Revised



SEED CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Alfalfa	1990	27,400	600	16,440,000	lb.	\$1.60	\$ 26,304,000
Certified	1989	31,200	570	17,784,000	lb.	\$1.40	\$ 24,898,000
	1990	12,600	545	6,867,000	lb.	1.40	9,614,000
Non-Certified	1989	14,300	530	7,579,000	lb.	1.30	9,853,000
Alfalfa Seed	1990	40,000		23,307,000	lb.		35,918,000
Total	1989	45,500		25,363,000	lb.		34,751,000
Barley	1990	800	3,200	2,560,000	lb.	.06	154,000
Certified	1989	1,800	4,400	7,920,000	lb.	.06	475,000
	1990	700	2,900	2,030,000	lb.	.05	102,000
Non-Certified	1989	1,500	2,900	4,350,000	lb.	.05	218,000
Cotton^a	1990	7,290		7,290,000	lb.	.11	802,000 ^b
	1989	7,500		6,405,000	lb.	.11	705,000 ^b
Vegetable^c	1990	1,640					3,891,000
	1989	1,000					2,125,000
Wheat	1990	20,000	6,100	122,000,000	lb.	.09	10,980,000
Certified	1989	19,400	6,100	118,340,000	lb.	.10	11,834,000
	1990	1,290	5,800	7,482,000	lb.	.07	524,000
Non-Certified	1989	1,250	5,800	7,250,000	lb.	.08	580,000
Other^d	1990	1,880					707,000
	1989	<u>2,860</u>					<u>1,713,000</u>
Total	1990	66,310					\$ 53,078,000
	1989	73,310					\$ 52,401,000

a Not included in total acreage for "Seed Crops"

b Includes \$30 per acre approval on 696 acres

c Broccoli, cauliflower, eggplant, lettuce, onion and tomato

d Certified and non-certified blackeye peas, certified clover, certified fescue, certified garbanzo beans, certified oats, non-certified rice and certified safflower



VEGETABLES CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Broccoli^a	1990	4,980	8.39	41,800	ton	\$510.00	\$21,318,000
	1989	5,800	7.90	45,800	ton	\$360.00	\$16,488,000
Carrots^a	1990	1,460	30.00	43,800	ton	270.00	11,826,000
	1989	2,450	22.00	53,900	ton	300.00	16,170,000
Oriental Vegetables^b	1990	2,450	5.18	12,700	ton	830.00	10,541,000
	1989	1,060	7.78	8,250	ton	420.00	3,465,000
Eggplant	1990	350	13.00	4,550	ton	450.00	2,048,000
	1989	300	9.30	2,790	ton	400.00	1,116,000
Garlic^a	1990	14,400	9.51	137,000	ton	350.00	47,950,000
	1989	10,900	9.45	103,000	ton	330.00	33,990,000
Head Lettuce							
Spring	Naked			66,900	ton		
	Wrapped			40,100	ton		
	Bulk			11,400	ton		
Season Total	1990	8,280	14.30	118,400	ton	190.00	22,496,000
	1989	8,650	11.70	101,200	ton	210.00	21,252,000
Fall	Naked			91,600	ton		
	Wrapped			55,600	ton		
	Bulk			17,000	ton		
Season Total	1990	8,830	18.60	164,200	ton	360.00	59,112,000
	1989	9,810	17.50	171,700	ton	250.00	42,925,000
Head Lettuce Totals	1990	17,110		282,600			81,608,000
	1989	18,460		272,900			64,177,000
Melons							
Cantaloupe	1990	36,900	9.51	351,000	ton	250.00	87,750,000
	1989	31,700	10.50	333,000	ton	275.00	91,575,000

VEGETABLES CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Melons (continued)							
Honeydew	1990	2,920	11.71	34,200	ton	\$340.00	\$11,628,000
	1989	2,600	11.88	30,900	ton	\$225.00	\$ 6,953,000
Mixed Melons ^d	1990	1,100	10.82	11,900	ton	390.00	4,641,000
	1989	1,500	8.53	12,800	ton	295.00	3,776,000
Watermelon	1990	290	11.00	3,190	ton	104.00	332,000
	1989	350	9.00	3,150	ton	117.00	369,000
Onions Dry							
Fresh	1990	4,250	18.21	77,400	ton	225.00	17,415,000
	1989	2,780	17.16	47,700	ton	320.00	15,264,000
Processed	1990	15,700	19.24	302,000	ton	69.00	20,838,000
	1989	9,800	18.67	183,000	ton	70.00	12,810,000
Bell Peppers ^a	1990	1,420	11.76	16,700	ton	500.00	8,350,000
	1989	2,200	10.41	22,900	ton	510.00	11,679,000
Squash ^c	1990	1,100	5.80	6,380	ton	390.00	2,488,000
	1989	890	5.20	4,630	ton	370.00	1,713,000
Sweet Potatoes/ Yams	1990	1,370	7.15	9,800	ton	345.00	3,381,000
	1989	1,370	9.64	13,200	ton	410.00	5,412,000
Tomatoes Fresh							
Cherry	1990	800	18.00	14,400	ton	640.00	9,216,000
	1989	575	15.00	8,630	ton	590.00	5,092,000
Standard	1990	6,000	18.83	113,000	ton	400.00	45,200,000
	1989	5,200	18.44	95,900	ton	520.00	49,868,000
Processed	1990	104,000	35.50	3,692,000	ton	52.00	191,984,000
	1989	72,400	35.00	2,534,000	ton	55.00	139,370,000

VEGETABLE CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Other ^c	1990	12,380					\$ 27,030,000
	1989	<u>17,600</u>					<u>\$ 34,456,000</u>
Total	1990	228,980					\$605,544,000
	1989	187,935					\$513,743,000

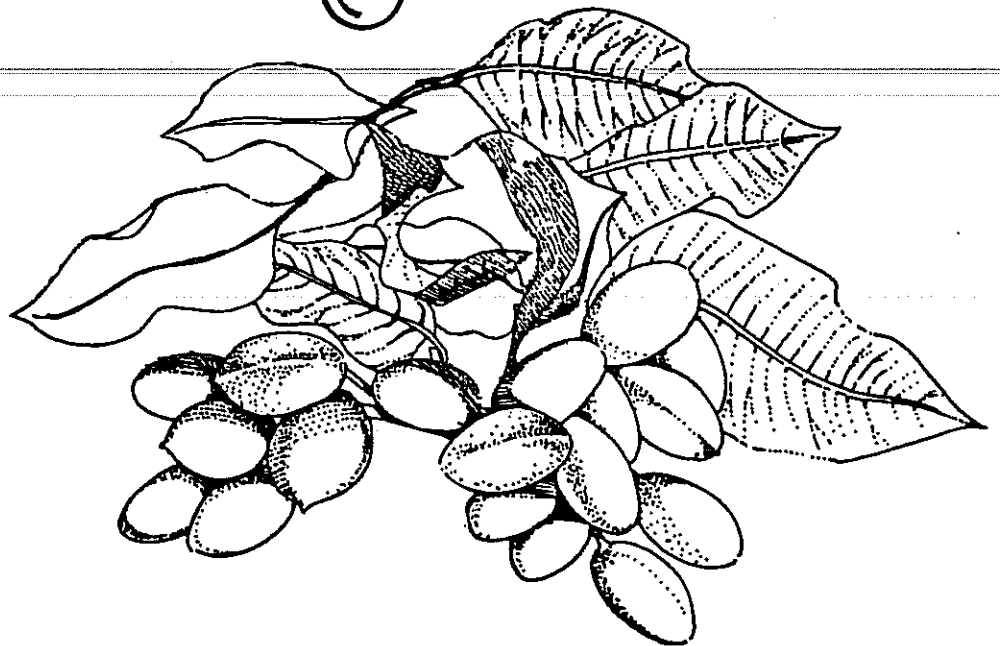
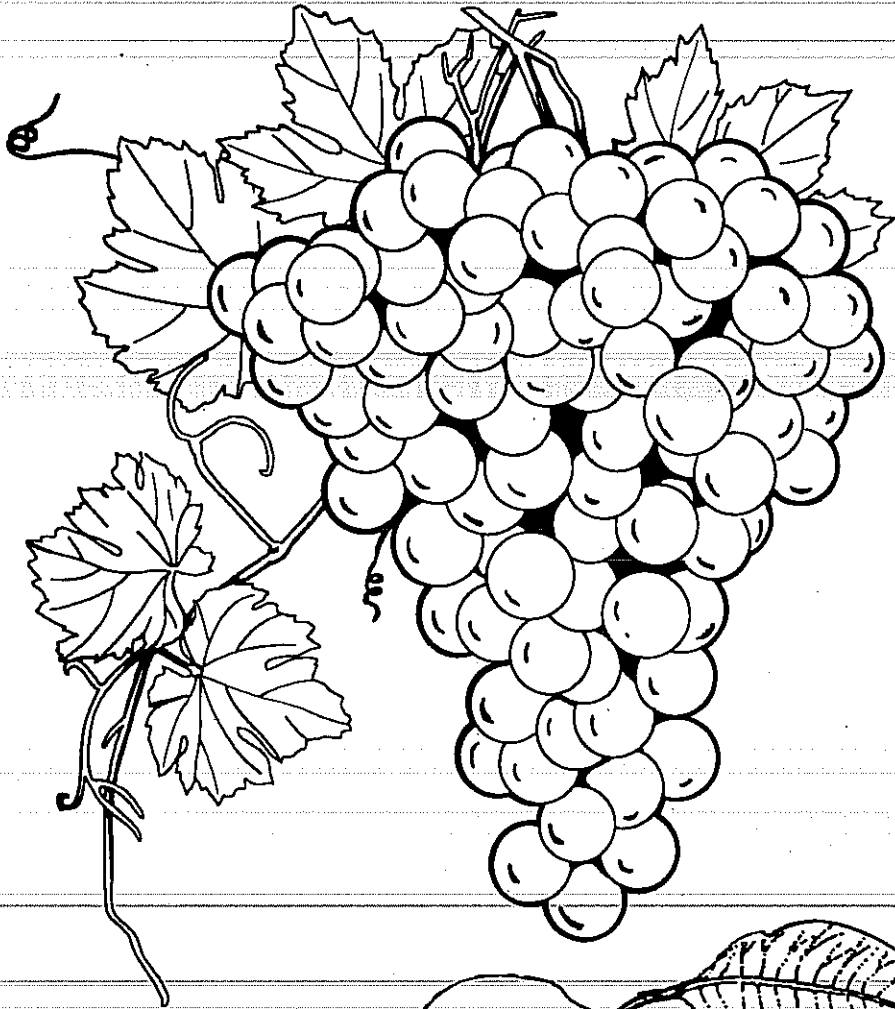
a Includes fresh and processed

b Includes bittermelon, bok choy, daikon, dunqua, gai choy, gai lon, gobo, leek, lemon grass, lo bok, long bean, moqua, napa, opo, sinqua, sugar peas and taro

c Includes asparagus, bean sprouts, beets, cabbage, chili peppers, cilantro, collards, cornnuts, cucumbers, endive, escarole, green onions, Japanese eggplant, kale, kohlrabi, leaf lettuce, lima beans, mushrooms, mustard, okra, parsley, peas, pumpkins, radishes, romaine, Swiss chard, sugar cane, sunchoke and turnips

d Casaba, Crenshaw, Juan Canary, Persian, Santa Claus, Sharlyn

e Includes soft and hard types



FRUIT & NUT CROPS

CROP	YEAR	BEARING ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Almonds	1990	29,367	.93	27,300	ton	\$1,800.00	\$49,140,000
	1989	30,375	.73	22,200	ton	\$2,200.00	\$48,840,000
Almond Hulls	1990			54,400	ton	70.00	3,808,000
	1989			42,500	ton	60.00	2,550,000
Apricots	1990	523	4.30	2,250	ton	990.00	2,228,000
	1989	483	6.40	3,090	ton	860.00	2,657,000
Citrus							
Lemons	1990	1,010	11.25				
	1989	1,019	11.09				
Fresh	1990			7,580	ton	689.00	5,223,000
	1989			7,100	ton	600.00	4,260,000
Processed	1990			3,780	ton	110.00	416,000
	1989			4,200	ton	70.00	294,000
Oranges							
Navel	1990	15,968	15.84				
	1989	15,630	11.28				
Fresh	1990			182,000	ton	376.00	68,432,000
	1989			133,000	ton	375.00	49,875,000
Processed	1990			70,900	ton	85.00	6,027,000
	1989			43,300	ton	80.00	3,464,000
Valencia	1990	4,183	13.84				
	1989	3,695	13.80				
Fresh	1990			36,100	ton	447.00	16,137,000
	1989			33,200	ton	434.00	14,409,000
Processed	1990			21,800	ton	105.00	2,289,000
	1989			17,800	ton	101.00	1,798,000
Other ^a	1990	598	13.34				
	1989	602	12.57				
Fresh	1990			5,650	ton	560.00	3,164,000
	1989			3,370	ton	440.00	1,483,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	BEARING ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Other ^a (continued)							
Processed	1990			2,330	ton	\$ 87.00	\$ 203,000
	1989			4,200	ton	\$ 90.00	\$ 378,000
Figs, dried	1990	3,000	.87	2,610	ton	950.00	2,480,000
	1989	3,200	.94	3,010	ton	1,100.00	3,311,000
Grapes							
Raisin Varieties	1990	163,075	9.45				
	1989	162,792	10.07				
Canned	1990			5,760	ton	218.00	1,256,000
	1989			7,500	ton	208.00	1,560,000
Crushed	1990			147,000	ton	126.00	18,522,000
	1989			204,000	ton	132.00	26,928,000
Dried	1990			298,000	ton	880.00	262,240,000
	1989			314,000	ton	905.00	284,170,000
Fresh	1990			69,000	ton	834.00	57,546,000
	1989			72,500	ton	680.00	49,300,000
Juice	1990			7,400	ton	380.00	2,812,000
	1989			4,650	ton	375.00	1,744,000
Table Varieties	1990	8,858	8.72				
	1989	9,395	8.25				
Crushed	1990			11,200	ton	90.00	1,008,000
		1989		19,000	ton	108.00	2,052,000
Fresh	1990			66,000	ton	868.00	57,288,000
	1989			58,500	ton	783.00	45,806,000
Wine Varieties	1990	33,715	10.28				
	1989	34,239	8.39				
Crushed	1990			342,000	ton	155.00	53,010,000
	1989			275,000	ton	173.00	47,575,000
Juice	1990			4,750	ton	400.00	1,900,000
	1989			12,300	ton	470.00	5,781,100
Grapes Total	1990	205,648					455,582,000
	1989	206,426					464,916,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	BEARING ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Kiwi	1990	326	3.00	978	ton	\$1,330.00	\$ 1,301,000
	1989	320	4.50	1,440	ton	\$1,650.00	\$ 2,376,000
Nectarines	1990	13,071	7.96	104,000	ton	760.00	79,040,000
	1989	13,032	9.67	126,000	ton	636.00	80,136,000
Olives, canned	1990	1,208	3.80	4,590	ton	490.00	2,249,000
	1989	1,151	3.90	4,490	ton	550.00	2,470,000
Peaches							
Clingstone	1990	1,296	17.98	23,300	ton	216.00	5,033,000
	1989	1,347	17.00	22,900	ton	218.00	4,992,000
Freestone	1990	11,910	10.08	120,000	ton	728.00	87,360,000
	1989	11,832	8.71	103,000	ton	625.00	64,375,000
Peaches Total	1990	13,206					92,393,000
	1989	13,179					69,367,000
Pears, Asian and European	1990	299	4.82	1,440	ton	1,020.00	1,469,000
	1989	260	7.65	1,990	ton	970.00	1,930,000
Pecans	1990	374	.83	310	ton	2,580.00	800,000
	1989	372	.80	298	ton	1,800.00	536,000
Persimmons	1990	286	6.29	1,800	ton	840.00	1,512,000
	1989	291	5.29	1,540	ton	1,040.00	1,602,000
Pistachios	1990	1,819	.68	1,240	ton	2,220.00	2,753,000
	1989	1,645	.60	987	ton	3,810.00	3,760,000
Plums	1990	17,703	8.02	142,000	ton	834.00	118,428,000
	1989	17,741	6.31	112,000	ton	636.00	71,232,000
Pomegranates	1990	953	6.09	5,800	ton	780.00	4,524,000
	1989	964	9.00	8,680	ton	600.00	5,208,000
Prunes, dried	1990	1,206	2.90	3,500	ton	780.00	2,730,000
	1989	1,166	4.10	4,780	ton	800.00	3,824,000
Strawberries^b	1990	180	13.50	2,430	ton	630.00	1,531,000
	1989	275	12.51	3,440	ton	740.00	2,546,000
Walnuts	1990	2,983	1.31	3,910	ton	910.00	3,558,000
	1989	2,860	2.00	5,720	ton	960.00	5,491,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	BEARING ACREAGE	PRODUCTION		VALUE	
			PER ACRE	TOTAL	PER UNIT	TOTAL
Other ^a	1990	2,010				\$ 13,502,000
	1989	<u>1,300</u>				<u>\$ 7,202,000</u>
Total	1990	315,921				\$940,919,000
	1989	315,986				\$855,915,000

a Includes mandarin/tangerines and tangelos

b Includes fresh and processed

c Includes apples, avocados, boysenberries, blackberries, cherries, fresh figs, substandard figs, olive oil, fresh olives, processed apricots, processed nectarines, processed peaches, processed pears and quince



NURSERY PRODUCTS

ITEM	YEAR	ACRES	QUANTITY	UNIT	VALUE
Christmas Trees	1990	125	12,300	trees	\$ 277,000
	1989	125	17,000	trees	\$ 349,000
Herbaceous Ornamentals^a	1990	15	119,000	b	784,000
	1989	16	100,000	b	503,000
Ornamental Trees and Shrubs	1990	65	2,090,000	plants	5,445,000
	1989	64	2,011,000	plants	6,125,000
Other ^c	1990	295	69,674,000	plants	11,688,000
	1989	<u>251</u>	68,793,000	plants	<u>6,693,000</u>
Total	1990	500			\$18,194,000
	1989	456			\$13,670,000

- a** Includes cut flowers, cut greens, potted plants, bedding plants and herbaceous perennials
- b** Includes flats, dozens, cans, and single plants
- c** Includes bareroot fruit & nut trees, grape rootings and vegetable plants



LIVESTOCK & POULTRY

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Cattle and Calves						
Beef						
Breeding Stock						
Common	1990	1,280		head	\$ 600.00	\$ 768,000
	1989	1,320		head	\$ 550.00	\$ 726,000
Registered	1990	320		head	1,250.00	400,000
	1989	330		head	1,200.00	396,000
Feeders	1990	148,000	296,000	cwt.	74.50	22,052,000
	1989	158,000	316,000	cwt.	73.80	23,321,000
Calves	1990	22,500	67,400	cwt.	88.50	5,965,000
	1989	23,100	106,000	cwt.	80.50	8,533,000
Slaughter Stock						
From Feed Lots	1990	251,000	1,182,000 ^a	cwt.	65.00	76,830,000
	1989	221,000	1,039,000 ^a	cwt.	62.00	64,418,000
From Other Sources	1990	4,800	42,200	cwt.	51.00	2,152,000
	1989	4,950	43,600	cwt.	41.49	1,809,000
Dairy						
Breeding Stock	1990	7,968		head	1,300.00	10,358,000
	1989	7,600		head	1,200.00	9,120,000
Cull Stock	1990	18,600	242,000	cwt.	47.30	11,447,000
	1989	17,000	221,000	cwt.	46.75	10,332,000
Calves	1990	14,900	44,700	cwt.	100.00	4,470,000
	1989	13,600	40,800	cwt.	102.00	4,162,000
Hogs and Pigs						
Feeder Pigs and Slaughter Stock	1990	11,500	23,400	cwt.	58.46	1,368,000
	1989	13,000	26,000	cwt.	45.88	1,193,000

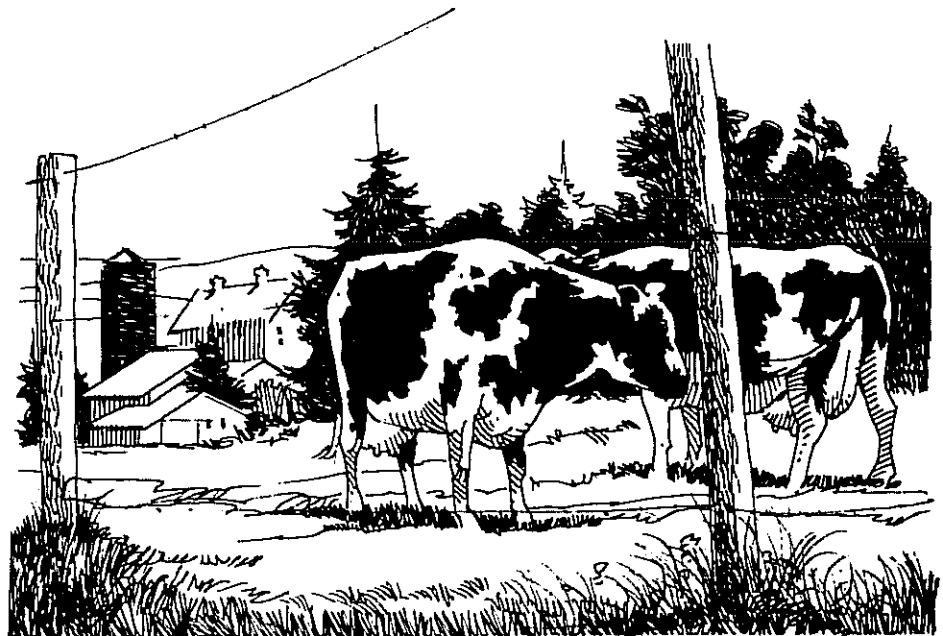
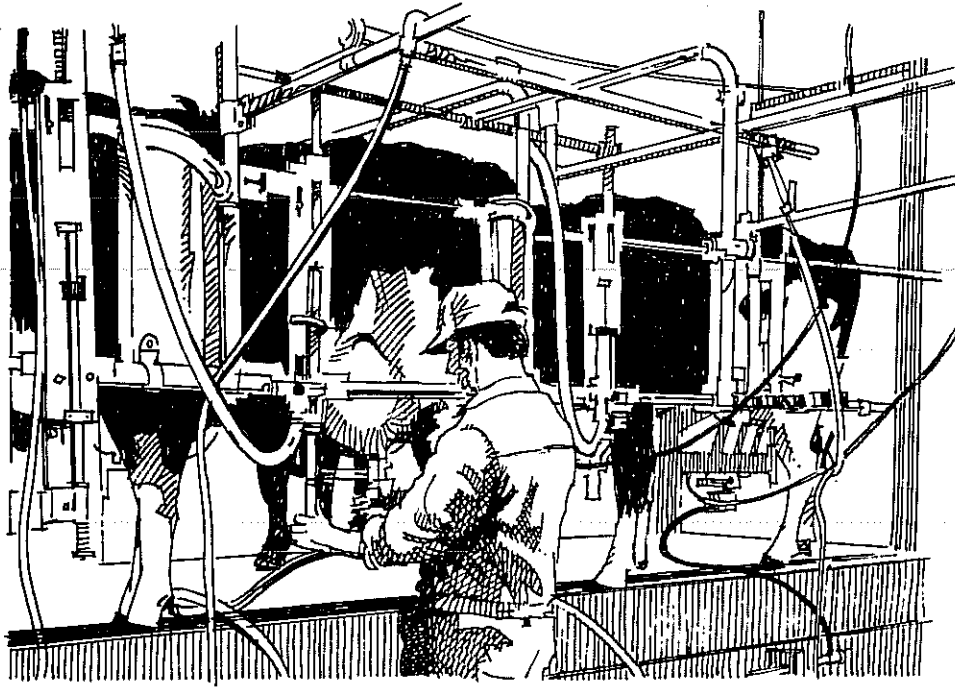
LIVESTOCK & POULTRY (continued)

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Sheep and Lambs						
Slaughter Stock						
Lambs	1990	73,600	69,900	cwt.	\$58.24	\$ 4,071,000
	1989	76,000	72,200	cwt.	\$71.00	\$ 5,126,000
Sheep	1990	18,800	26,300	cwt.	21.03	553,000
	1989	19,400	27,200	cwt.	22.50	612,000
Turkeys	1990	14,348,000	329,611,000	lb.	.58	191,174,000
	1989	9,700,000	213,400,000	lb.	.50	106,700,000
Other ^b	1990					222,681,000
	1989					<u>215,554,000</u>
Total	1990					\$554,289,000
	1989					\$452,002,000 [*]

a Net feedlot gain

b Includes chickens, Fallow deer, fish, game birds, squab and turkey poults

* Revised



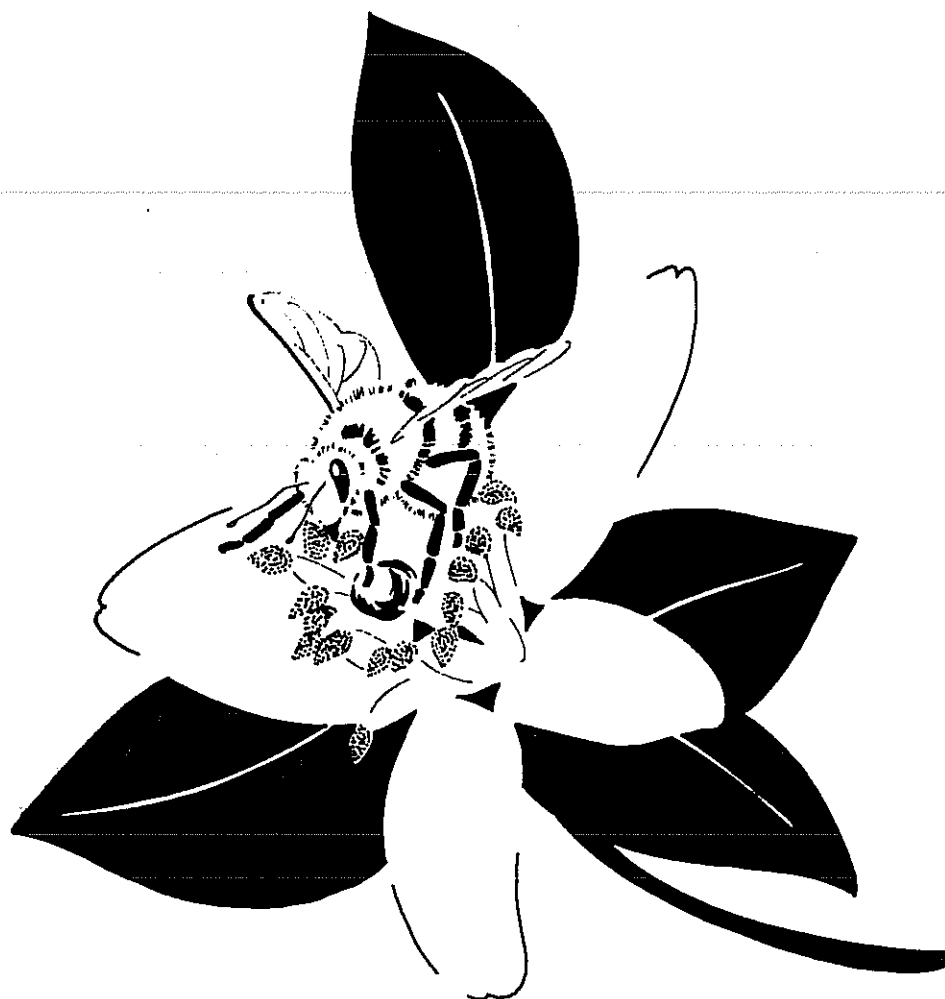
LIVESTOCK & POULTRY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
Manure	1990	725,000	ton	\$ 7.56	\$ 5,481,000
	1989	675,000	ton	\$ 5.16	\$ 3,483,000
Milk					
Manufacturing	1990	154,000	cwt.	11.12	1,712,000
	1989	130,000	cwt.	11.60	1,508,000
Market	1990	12,518,000	cwt.	11.72	146,711,000
	1989	11,533,000	cwt.	12.22	140,933,000
Wool	1990	680,000	lb.	.91	619,000
	1989	752,000	lb.	1.30	978,000
Eggs					
Chicken & Turkey ^a	1990	1,740,000	dozen	4.40	7,656,000
	1989	1,355,000	dozen	4.60	<u>6,233,000</u>
Total	1990				\$162,179,000
	1989				\$153,135,000

^a Includes market and hatching eggs

JANUARY 1 INVENTORIES OF LIVESTOCK AND POULTRY (In Number of Head)

ITEM	January 1, 1991	January 1, 1990
Cattle and Calves		
All	356,000	370,000
Dairy and Beef Cows	95,900	88,000
Cattle on Feed	101,000	100,000
Stock Sheep and Lambs	85,000	94,000
Goats	1,300	1,300
Hogs and Pigs	6,000	7,500
Poultry	3,931,000	3,600,000



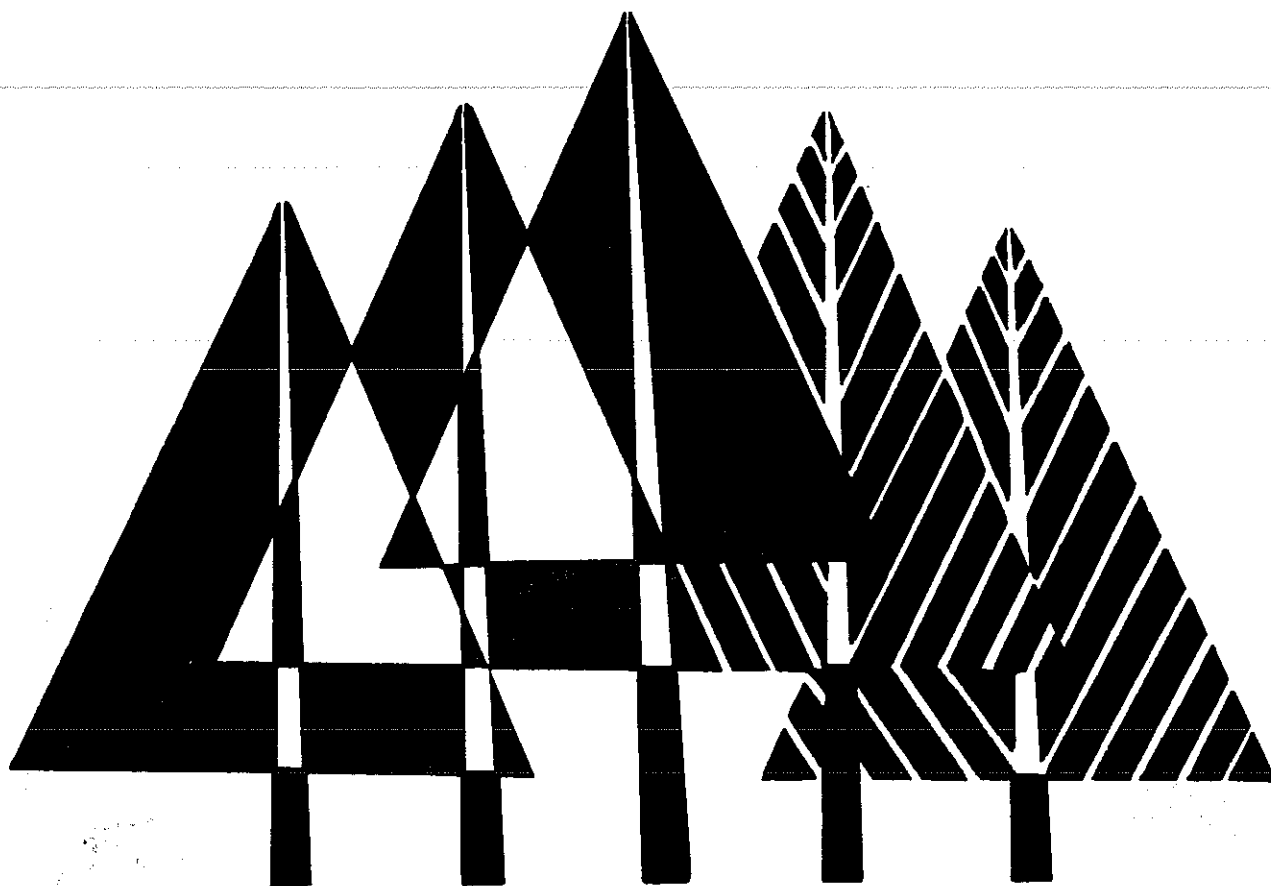
APIARY PRODUCTS AND POLLINATION SERVICES

ITEM	YEAR	PRODUCTION TOTAL	UNIT	VALUE	
				PER UNIT	TOTAL
Apiary Products ^a					
Honey	1990	2,214,000	lb.	\$.51	\$1,129,000
	1989	1,308,000	lb.	\$.61	\$ 798,000
Beeswax	1990	138,000	lb.	1.05	145,000
	1989	57,200	lb.	1.01	57,800
Pollination ^b					
Alfalfa Seed	1990	138,000	colony	20.80	2,870,000
	1989	132,000	colony	20.00	2,640,000
Tree Fruit ^c	1990	67,600	colony	31.30	2,116,000
	1989	74,200	colony	30.84	2,288,000
Cantaloupe	1990	40,300	colony	14.49	584,000
	1989	29,200	colony	13.90	<u>406,000</u>
Total	1990				\$6,844,000
	1989				\$6,189,800

a Reflects bee colonies registered in Fresno County by commercial and semi-commercial beekeepers:
1990 - 50,300 colonies; 1989 - 41,462 colonies

b Reflects value of pollination by all bee colonies located in Fresno County for pollination services during 1990. Estimated total colonies: 156,488

c Almonds and plums



INDUSTRIAL CROPS

CROP	YEAR	PRODUCTION	UNIT (a)	VALUE (b)
Timber	1990	88,774,000	board feet	\$ 12,093,000
	1989	81,300,000	board feet	\$ 6,106,000

a Board feet is the quantity of timber cut and sealed

b Value of timber immediately prior to cutting

**GROWTH IN FRESNO COUNTY AGRICULTURE AS INDICATED BY GROSS PRODUCTION
VALUE OF AGRICULTURAL PRODUCTS OVER A TWENTY- ONE YEAR SPAN**

1970 -	474,706,000*	1981 -	1,905,289,240*
1971 -	507,930,000	1982 -	1,855,733,500
1972 -	559,307,000*	1983 -	1,727,319,500
1973 -	828,682,000*	1984 -	1,921,020,840*
1974 -	967,350,000	1985 -	2,054,060,400*
1975 -	1,026,356,000*	1986 -	2,125,721,200*
1976 -	1,178,373,000*	1987 -	2,264,044,000*
1977 -	1,110,424,200*	1988 -	2,444,732,600*
1978 -	1,241,033,100*	1989 -	2,607,648,800*
1979 -	1,719,235,500	1990 -	2,950,597,000
1980 -	2,002,448,900*		

SIX YEAR COMPARISON OF GROSS PRODUCTION VALUE IN FRESNO COUNTY

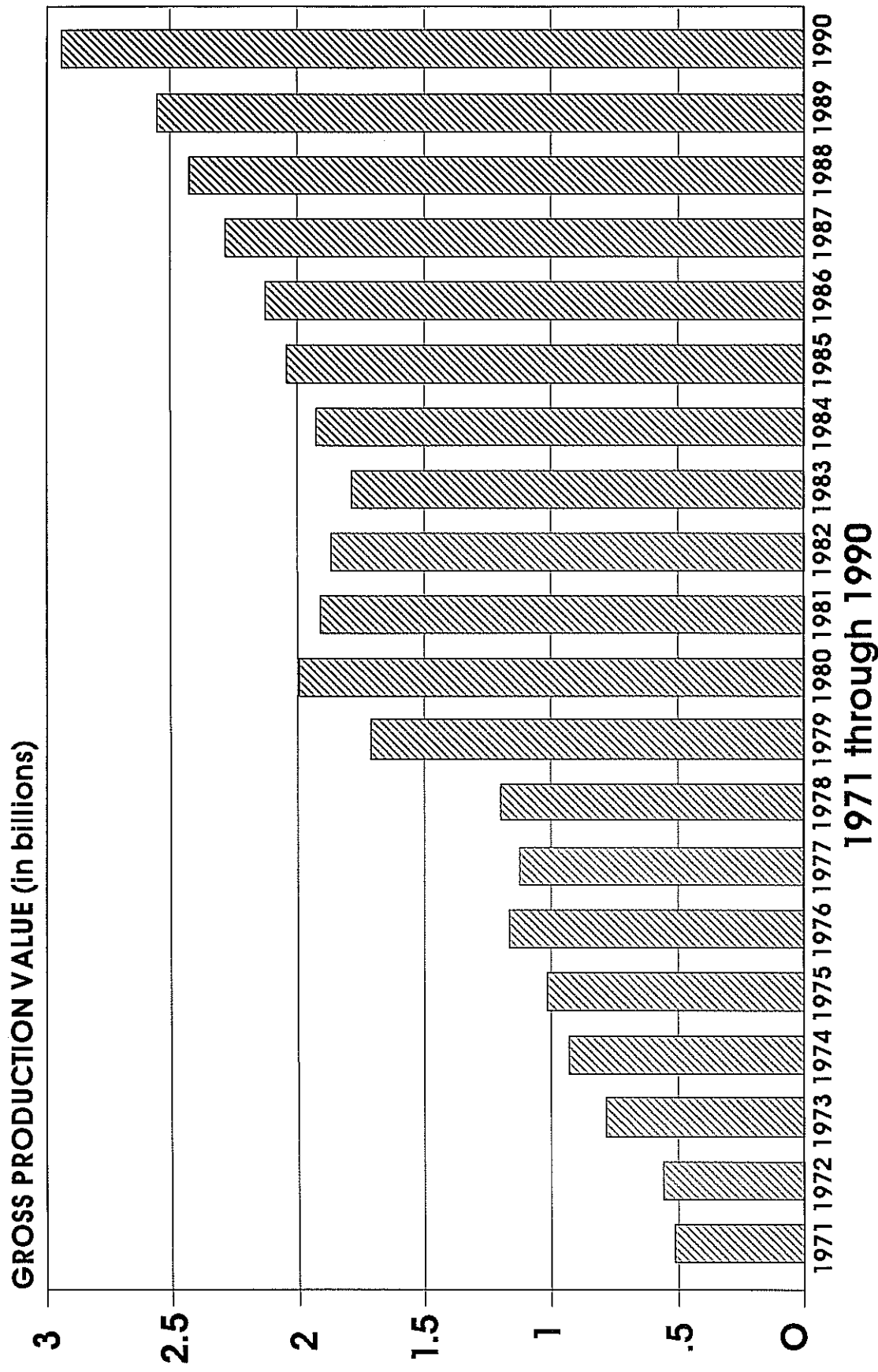
	1970	1980	1987	1988	1989	1990
Field Crops	\$139,484,000	\$635,717,000	\$603,341,000	\$573,649,000*	\$554,487,000*	\$597,457,000
Seed Crops	17,550,000	43,629,000	37,921,000	45,216,000	52,401,000	53,078,000
Vegetable Crops	39,713,000	186,702,000*	432,514,000	447,922,000	513,743,000	605,544,000
Fruit & Nut Crops	173,469,000*	752,466,400	746,702,000	877,319,100	855,915,000	940,919,000
Nursery Products	740,000	3,929,000	12,729,000	13,805,000*	13,670,000	18,194,000
Livestock & Poultry	103,353,000	374,215,900	420,169,000*	477,382,000	605,137,000*	716,468,000
Apiary	397,000	5,789,600	7,021,000	5,649,500*	6,189,800	6,844,000
Industrial Crops	+	+	3,647,000	3,790,000	6,106,000	12,093,000
TOTAL	\$474,706,000	\$2,002,448,900*	\$2,264,044,000*	\$2,444,732,600*	\$2,607,648,800*	\$2,950,597,000

*Revised

+Not reported

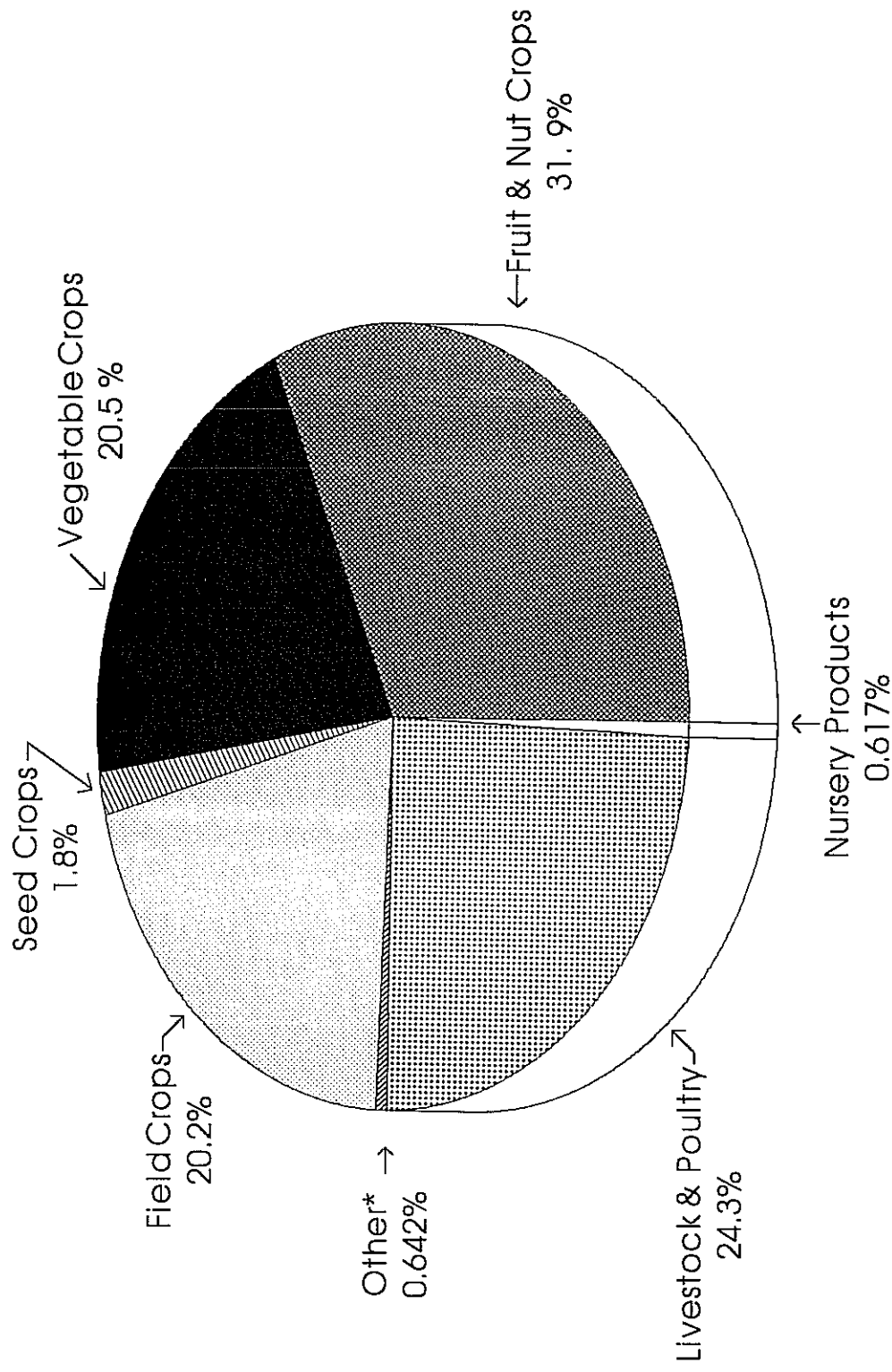
GROWTH OF FRESNO COUNTY AGRICULTURE

OVER A TWENTY YEAR SPAN



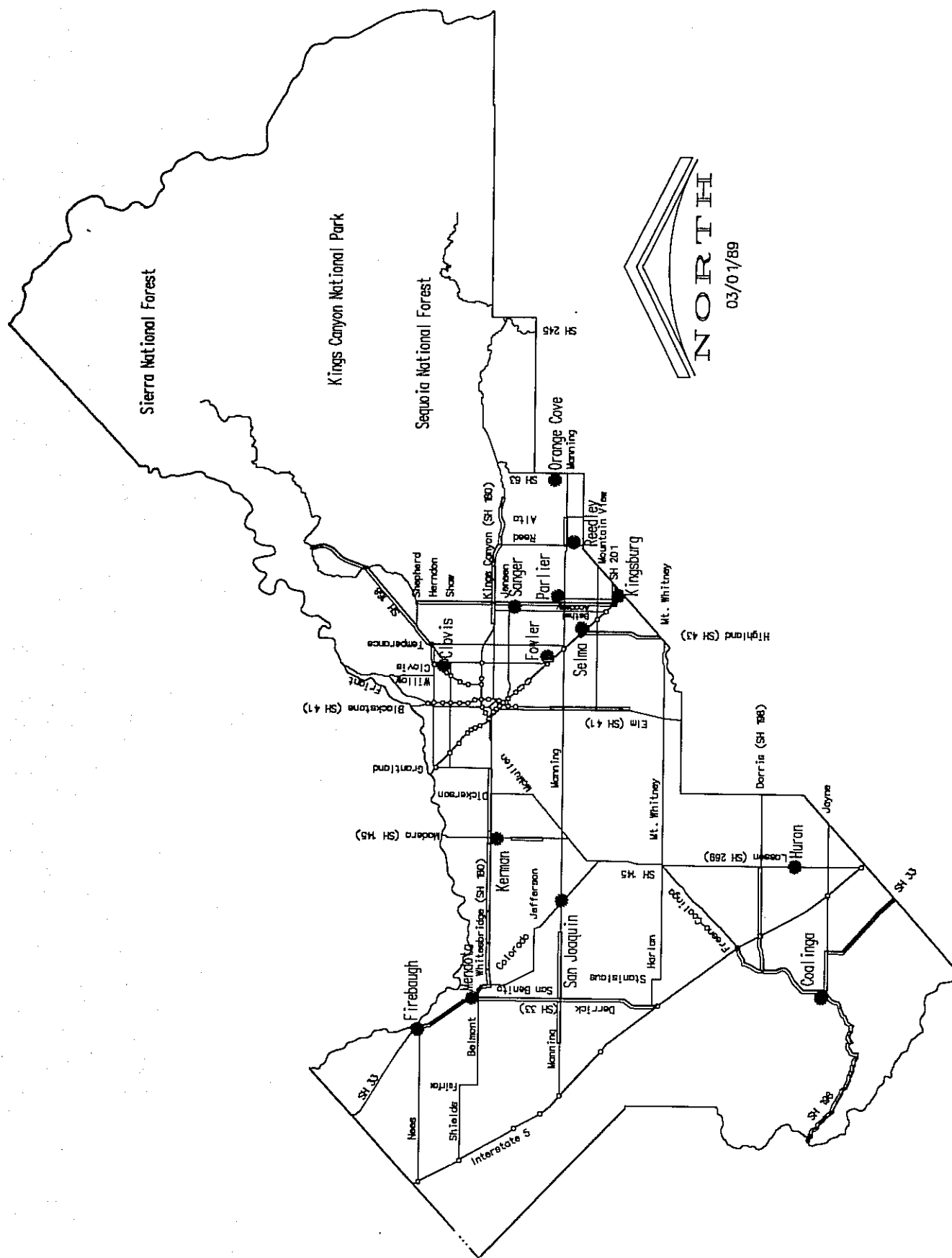
RELATIONSHIP IN TERMS OF TOTAL VALUE

CROP REPORT YEAR 1990



Total Value \$2,950,597,000

* Aply Products and Pollination Services & Industrial Crops





Department of Agriculture

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

Cosmo C. Insalaco
Agricultural Commissioner
Sealer of Weights & Measures

The Honorable Board of Supervisors
County of Fresno

Doug Vagim, Chairman
A. Vernon Conrad Sharon Levy
Deran Koligian Stan Oken

William H. Randolph
County Administrative Officer

I am pleased to submit the 1991 Fresno County Agricultural Crop and Livestock Report. This annual compilation presents statistical data pertaining to the acreage, yield, and gross value of Fresno County agricultural products.

The total gross production value of Fresno County agricultural commodities in 1991 was \$2,611,403,040.00. This represents an 11.46 percent decrease from the 1990 gross production values.

It must be emphasized that the values presented in this report reflect gross values only, and do not in any manner reflect net income or loss to producers.

1991 was the fifth consecutive drought year experienced by Fresno County growers and resulted in increasing negative impact of varying degree to the entire agricultural industry in the county. The arctic cold front and accompanying record freezing temperatures experienced during December, 1990, and January, 1991, caused serious damage and significant losses to Fresno County's agricultural industry. The drought and freeze contributed significantly to 1991's reduced gross returns.

Agriculture continues as the major industry in Fresno County and is a driving force in the county's economy. Every dollar received by Fresno County producers results in three and one-half dollars economic extension benefit to the total economy of the county.

I sincerely appreciate the professional and dedicated work performed by Deputy Agricultural Commissioner/Sealer Dennis C. Plann; Supervising Agricultural/Standards Specialist Bruce L. Clayton; Agricultural/Standards Specialists Scotti E. Abell and Thomas M. Schackmann, as well as the rest of my staff at the Department of Agriculture for the preparation of this report.

My thanks to the many individuals, related agencies and members of the agricultural industry for their contributions in the compilation of this report.

Best Regards,

A handwritten signature in cursive script, reading "Cosmo C. Insalaco".

Cosmo C. Insalaco
Agricultural Commissioner/Sealer

"There is no end to a town, any town, if it's where you were born in the first place and where you were born again, as it is written all men must be. But oh! the weather there, the heavenly weather there in the spring, the summer, the autumn, the fall, the winter - the hot sun and the heavy rain, the new green of spring and the fire-golden of fall: the farmer's weather of Fresno, in which I lived and became a part of the human race. The last thing I shall forget is the weather there."

*William Saroyan,
Author (1908 - 1981)
"The Time of Your Life" (Preface)*

"Labor is the great producer of wealth; it moves all other causes."

*Daniel Webster,
American Statesman (1782 - 1852)*

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FRESNO COUNTY'S 10 LEADING CROPS

Crop	1991 Rank	1991 Dollar Value	1990 Rank	1981 Rank	1971 Rank
GRAPES	1	466,008,000	1	2	1
COTTON	2	391,215,000	2	1	3
TOMATOES	3	215,589,000	3	6	7
CATTLE & CALVES	4	191,861,000	6	3	2
TURKEYS	5	143,207,000	4	7	10
MILK	6	140,002,000	5	4	5
HEAD LETTUCE	7	94,204,000	11	16	19
PLUMS	8	75,924,000	7	5	9
PEACHES	9	71,438,000	9	13	8
NECTARINES	10	66,780,000	12	8	11

1991 Retrospect Highlights

The continuing drought conditions and resultant effects have been felt by all segments of the County's agricultural industry. 1991 was the fifth consecutive year of the longest drought California has experienced since the 1930's. Rangeland livestock producers have felt the effects of a prolonged drought. Most westside livestock producers qualified for the 1991 USDA/ASCS Emergency Feed Program. The miracle March rains somewhat improved eastside range conditions.

1991 started with record low levels of water in storage in Fresno County and Northern California reservoirs that supply Fresno County's farms. Surface water deliveries were severely reduced in 1991. Where feasible, irrigation wells were used to supplement reduced surface water deliveries. The increased pumping resulted in severe overdrafting of the ground water aquifers which led to decreased discharge capacity and well failures, particularly on the eastside. Growers made substantial investments in well drilling, reconditioning and deepening.

Grower production costs increased dramatically in 1991. Pumping costs and water purchases accounted for substantial increases. Growers faced major decisions as to which commodities to plant or not to plant. In many instances, growers financed and planted crops with no guarantee of enough water to bring the crop to maturity. Some growers were faced with the possibility of not having enough water to sustain their permanent plantings. As the drought continues, producers continue to find themselves on the edge of financial disaster.

The devastating record-breaking freeze of late December, 1990, and early January, 1991, dealt another blow to the already over-stressed agricultural industry. Disasterous losses were sustained by the County's citrus industry. Other commodities and crops experiencing damage and losses included nursery and ornamental crops, olives, avocados and varied row and field crops. Applications for freeze damage assistance are now available at USDA/ASCS offices.

The drought and freeze created a serious threat to agriculture, the County's leading industry. Agricultural revenue and production losses are felt beyond the farm. Farm workers and businesses in the community share in these hardships and losses.

FIELD CROPS: Total gross returns for all field crops decreased by \$97,124,000 to \$500,333,000 and acreage decreased by 7.86 percent to 1,417,190 acres. For the fourth consecutive year cotton was the number two crop in terms of gross returns. Returns from lint and seed decreased 13.65 percent or \$61,819,000 to total \$391,215,000. Total cotton acreage decreased by 6.94 percent or 25,600 acres. Alfalfa hay gross returns decreased 41.26 percent to \$43,200,000. This reflects a decrease of 6,300 acres, a reduction in yield, and a decrease in return per ton of \$23.00. The value of sugar beets increased by \$693,000 to total \$19,125,000, reflecting an increase of 4.17 percent in return per ton.

SEED CROPS: Total gross returns decreased by \$13,348,600 or 25.15 percent to \$39,729,400. The number of harvested acres decreased by 15,070. Total return from seed alfalfa was \$24,342,000, a decrease of 32.23 percent from last year. Yield per acre was slightly better than in 1990, while returns per pound for both certified and non-certified seed fell \$0.50 per pound. Certified and non-certified barley acreage, yield, and return per pound increased slightly, reflecting the \$198,600 increase in the total returns. Although certified and non-certified wheat acreage was reduced, yield and price per pound increased to raise the total value 5.4 percent or \$620,800.

VEGETABLE CROPS: The total gross returns for all vegetable crops decreased by \$68,766,000 or 11.36 percent to \$536,778,000. Harvested acreage of all vegetable crops increased slightly. Even though the gross value fell 12.5 percent to \$215,589,000, tomatoes remained the number three crop on the county's top ten list for the fourth consecutive year. Processing, fresh and cherry tomato acreage increased, while yields for all three decreased. After seven years of being out of the top ten leading crops, head lettuce moved into seventh place. Total gross returns increased by \$12,596,000 to \$94,204,000. This 15.43 percent increase reflects a combination of an increase in both acreage and return per ton. Carrot acreage was down 860 acres due to drought conditions. Farmers continued to plant the basic crops historically grown on the westside instead of specialty vegetable crops that require more water. Harvested acreage of cantaloupes was reduced by 6,000 acres, and returns per ton fell \$80.00 to \$170.00. This caused cantaloupes to move out of the top ten leading crops for the first time in two years.

FRUIT AND NUT CROPS: Total gross returns fell from \$142,879,160, or 15.19 percent, to \$798,039,840. For the fourth year in a row, grapes remained the number one crop in the county. Gross returns increased \$10,426,000 to total \$466,008,000. Yield and return per ton for raisin varieties increased slightly. Although raisin production decreased by 9,000 tons, an increase of \$102 per ton in price increased the gross value by \$21,558,000. The 4.7 percent decrease in table varieties gross returns reflects the decrease in price per ton for fresh utilization and the slight decrease in yield. Gross returns for wine varieties decreased by \$5,516,000 due to the 9.9 percent decrease in yield per acre. The devastating record-breaking freeze of late December, 1990, caused a loss of \$87,714,160 to the citrus industry which includes lemons, navel and valencia oranges, mandarin/tangerines and tangelos. For the first time in two years, plums, peaches and nectarines are all in the top ten leading crops, consecutively ranked at eighth, ninth and tenth place. Plum returns decreased 35.89 percent to \$75,924,000, reflecting a decrease of 18.7 percent in yield and a 20.14 percent decrease in return per ton. Gross returns for peaches decreased in value by \$20,955,000 to \$71,438,000. Although the yield per acre for nectarines increased slightly, return per ton decreased, which caused the gross value to drop \$12,260,000 or 15.51 percent.

NURSERY PRODUCTS: The gross returns from the sale of nursery products decreased .66 of a percent or \$120,000 to \$18,074,000. Acreage decreased 14.2 percent to 429 acres. Production and gross returns increased in ornamental trees and shrubs. Production of other nursery crops, which includes bareroot fruit and nut trees, grape rootings and vegetable plants, increased, but the gross returns fell 9.92 percent to \$10,528,000.

LIVESTOCK AND POULTRY: Total gross returns decreased by \$1,670,000 or .3 of a percent to \$552,619,000. This year cattle and calves gained two more positions on the county's top ten leading crop list, while turkeys fell from fourth to fifth place. The number of slaughter stock sold from feed lots increased by approximately 46 percent. This, combined with an increase in price, reflected an increase of \$51,046,000 to the total gross value, bringing it to \$127,876,000. The number of turkeys marketed fell by 24.06 percent to 10,896,000 head. Gross returns for turkey production decreased by \$47,967,000 to total \$143,207,000.

LIVESTOCK AND POULTRY PRODUCTS: The total gross returns from livestock and poultry products decreased by \$9,537,000 to total \$151,529,000. Milk, the number five crop last year, dropped one place to number six when the gross

value fell 5.64 percent to \$140,002,000. The gross returns from eggs increased \$1,220,000 due to the increase in return per dozen.

APIARY PRODUCTS AND POLLINATION SERVICES: Gross returns decreased by 11.93 percent or \$816,600 to total \$6,027,400. Returns from the sale of honey decreased by 34.9 percent to \$735,000. The increase in the average return per pound was not enough to offset the 37.4 percent decrease in production. Total value for tree fruit pollination, which includes almonds, cherries and plums, increased by \$836,000.

INDUSTRIAL CROPS: Timber returns decreased by 31.75 percent, or \$3,840,000, to total \$8,253,000. This reflects a decrease of 32.85 percent in the number of board feet harvested. For the first time we are reporting cords of firewood sold by the Pine Ridge and Kings River Districts of the United States Forest Service.



FIELD CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Barley	1991	12,000	2.24	26,900	ton	\$ 112.00	\$ 3,013,000
	1990	15,200	1.80	27,400	ton	\$ 115.00	\$ 3,151,000
Beans, dry	1991	12,000	1.07	12,800	ton	571.00	7,309,000
	1990	13,000	1.07	13,900	ton	650.00	9,035,000
Corn							
Grain	1991	3,100	3.74	11,600	ton	108.00	1,253,000
	1990	4,200	4.05	17,000	ton	112.00	1,904,000
Silage	1991	14,000	24.21	339,000	ton	18.00 ^B	6,102,000
	1990	13,300	22.03	293,000	ton	18.00 ^B	5,274,000
Cotton, Acala							
Lint	1991	314,000	1,350 ^a	848,000 ^b	bale	.73 ^c	311,996,000
	1990	369,000 ⁱ	1,360 ^a	1,004,000 ^b	bale	.76 ^c	384,572,000
Seed	1991		336,000		ton	130.00	43,680,000
	1990		398,000		ton	170.00	67,660,000
Cotton, Pima							
Lint	1991	29,400	1,085 ^a	63,800 ^b	bale	1.00 ^c	32,155,000
	1990 ^j						
Seed	1991			25,000	ton	112.00	2,800,000
	1990 ^j						
Hay							
Alfalfa ^d	1991	73,000	7.40	540,000	ton	80.00	43,200,000
	1990	79,300	9.00	714,000	ton	103.00	73,542,000
Other ^e	1991	8,700	3.00	26,100	ton	75.00	1,958,000
	1990	22,900	1.88	43,000	ton	63.00	2,709,000
Pasture and Range							
Alfalfa	1991	15,000			acre	13.00	195,000
Stubble ^f	1990	70,000			acre	13.00	910,000

FIELD CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Pasture and Range (continued)							
Irrigated Pasture	1991	40,000			acre	\$ 110.00	\$ 4,400,000
	1990	50,000			acre	\$ 110.00	\$ 5,500,000
Grazing Range	1991	850,000			acre	7.00	5,950,000
	1990	900,000			acre	7.00	6,300,000
Rice	1991	5,700	3.75	21,400	ton	235.00	5,029,000
	1990	6,200	3.19	19,800	ton	200.00	3,960,000
Safflower	1991	4,200	.95	4,000	ton	280.00	1,120,000
	1990	6,600	1.70	11,200	ton	250.00	2,800,000
Sugar Beets	1991	20,000	25.50	510,000	ton	37.50	19,125,000
	1990	20,000	25.60	512,000	ton	36.00	18,432,000
Wheat	1991	23,000	2.85	65,600	ton	114.00	7,478,000
	1990	30,500	2.87	87,500	ton	119.00	10,413,000
Other ^h	1991	8,090					3,570,000
	1990	<u>7,940</u>					<u>1,295,000</u>
Total	1991	1,417,190					\$500,333,000
	1990	1,538,140					\$597,457,000

a Pounds of lint per acre

b 500 pounds lint per bale

c Price per pound, 504 pounds gross weight per bale

d Includes bales, cubes, and green chop

e Includes hay and green chop from barley, oats, seed alfalfa and wheat

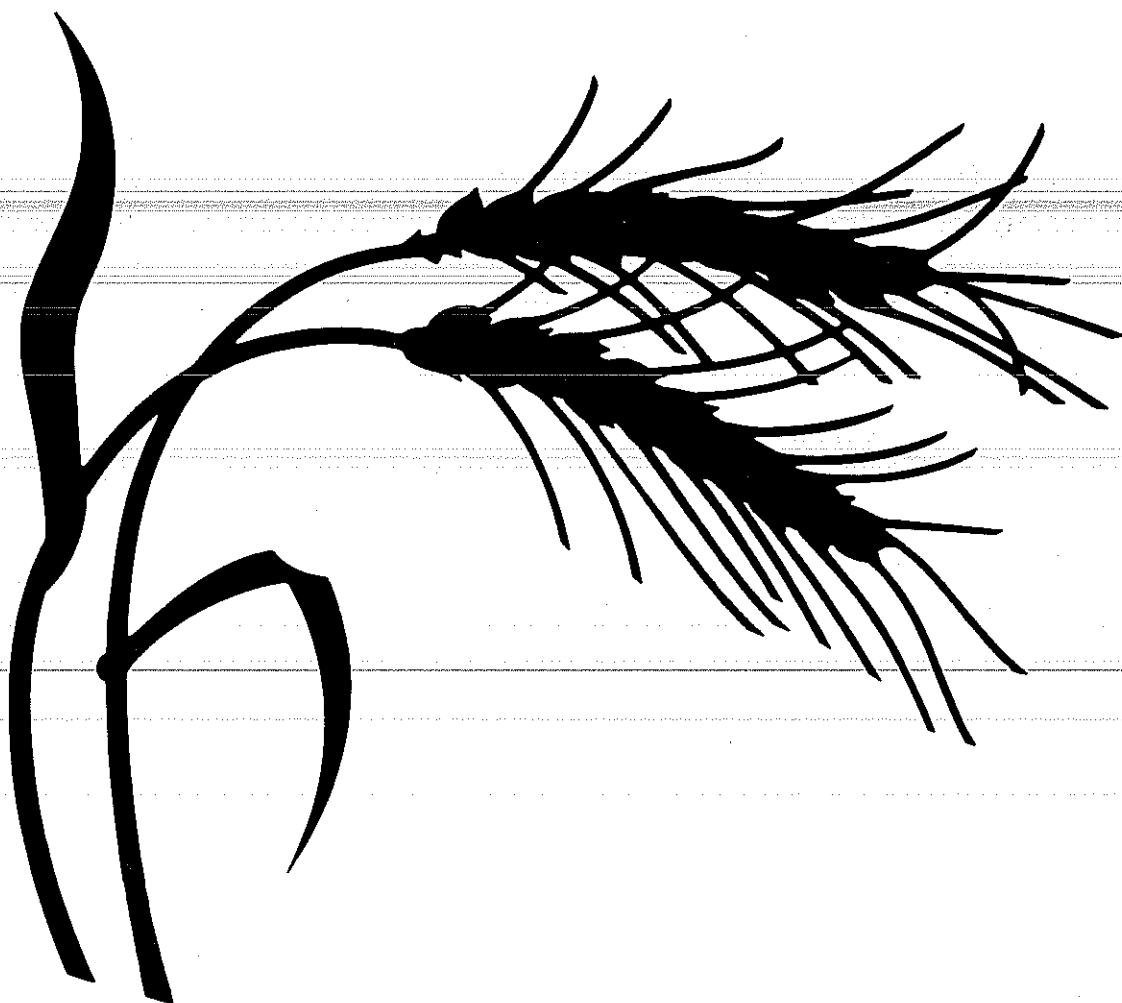
f Not included in total acreage figures; includes acreage from alfalfa hay and seed alfalfa

g Field price

h Includes oats, oat silage, screenings, straw, sudan and winter forage

i Includes 6,255 acres pima cotton

j Not previously reported separately



SEED CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Alfalfa	1991	22,800	850	19,380,000	lb.	\$1.10	\$21,318,000
Certified	1990	27,400	600	16,440,000	lb.	\$1.60	\$26,304,000
Non-Certified	1991	6,000	560	3,360,000	lb.	.90	3,024,000
	1990	12,600	545	6,867,000	lb.	1.40	9,614,000
Alfalfa Seed	1991	28,800		22,740,000	lb.		24,342,000
Total	1990	40,000		23,307,000	lb.		35,918,000
Barley	1991	1,100	3,800	4,180,000	lb.	.07	292,600
Certified	1990	800	3,200	2,560,000	lb.	.06	154,000
Non-Certified	1991	900	3,000	2,700,000	lb.	.06	162,000
	1990	700	2,900	2,030,000	lb.	.05	102,000
Cotton^a	1991	8,400		7,533,000	lb.	.07	584,000 ^b
	1990	7,290		7,290,000	lb.	.11	802,000 ^b
Vegetable^c	1991	1,240					1,634,000
	1990	1,640					3,891,000
Wheat	1991	16,200	6,400	103,680,000	lb.	.11	11,404,000
Certified	1990	20,000	6,100	122,000,000	lb.	.09	10,980,000
Non-Certified	1991	1,200	6,000	7,200,000	lb.	.10	720,000
	1990	1,290	5,800	7,482,000	lb.	.07	524,000
Other^d	1991	1,800					590,000
	1990	<u>1,880</u>					<u>707,000</u>
Total	1991	51,240					\$39,729,000
	1990	66,310					\$53,078,000

a Not included in total acreage for "Seed Crops"

b Includes \$30 per acre approval on 1,893 acres

c Carrot, cauliflower, cucumber, lettuce, onion, squash, tomato and turnip

d Certified garbanzo beans, certified and non-certified oats, non-certified rice and certified safflower



VEGETABLE CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Bell Peppers ^a	1991	1,600	12.25	19,600	ton	\$440.00	\$ 8,624,000
	1990	1,420	11.76	16,700	ton	\$500.00	\$ 8,350,000
Broccoli ^a	1991	4,500	3.91	17,600	ton	500.00	8,800,000
	1990	4,980	8.39	41,800	ton	510.00	21,318,000
Carrots ^a	1991	600	29.67	17,800	ton	110.00	1,958,000
	1990	1,460	30.00	43,800	ton	270.00	11,826,000
Eggplant	1991	250	9.30	2,330	ton	340.00	792,000
	1990	350	13.00	4,550	ton	450.00	2,048,000
Garlic ^a	1991	14,900	9.60	143,000	ton	315.00	45,045,000
	1990	14,400	9.51	137,000	ton	350.00	47,950,000
Head Lettuce							
Spring	Naked			62,100	ton		
	Wrapped			50,400	ton		
	Bulk			8,100	ton		
Season Total	1991	8,210	14.69	120,600	ton	220.00	26,532,000
	1990	8,280	14.30	118,400	ton	190.00	22,496,000
Fall	Naked			71,700	ton		
	Wrapped			64,500	ton		
	Bulk			17,600	ton		
Season Total	1991	10,100	15.23	153,800	ton	440.00	67,672,000
	1990	8,830	18.60	164,200	ton	360.00	59,112,000
Head Lettuce Totals	1991	18,310		274,400			94,204,000
	1990	17,110		282,600			81,608,000
Melons							
Cantaloupe	1991	30,900	9.71	300,000	ton	170.00	51,000,000
	1990	36,900	9.51	351,000	ton	250.00	87,750,000

VEGETABLE CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Melons (continued)							
Honeydew	1991	3,400	14.74	50,100	ton	\$225.00	\$ 11,273,000
	1990	2,920	11.71	34,200	ton	\$340.00	\$ 11,628,000
Mixed Melons ^d	1991	870	8.00	7,000	ton	244.00	1,708,000
	1990	1,100	10.82	11,900	ton	390.00	4,641,000
Watermelon	1991	500	17.50	8,750	ton	170.00	1,488,000
	1990	290	11.00	3,190	ton	104.00	332,000
Onions Dry							
Fresh	1991	4,500	24.44	110,000	ton	260.00	28,600,000
	1990	4,250	18.21	77,400	ton	225.00	17,415,000
Processed	1991	12,600	17.75	223,600	ton	82.00	18,335,000
	1990	15,700	19.24	302,000	ton	69.00	20,838,000
Oriental Vegetables ^b	1991	2,260	11.33	25,600	ton	337.00	8,627,000
	1990	2,450	5.18	12,700	ton	830.00	10,541,000
Squash ^c	1991	1,200	11.59	13,900	ton	355.00	4,935,000
	1990	1,100	5.80	6,380	ton	390.00	2,488,000
Sweet Corn	1991	1,900	7.47	14,200	ton	287.00	4,075,000
	1990 ^f						
Sweet Potatoes/ Yams	1991	1,400	9.00	12,600	ton	430.00	5,418,000
	1990	1,370	7.15	9,800	ton	345.00	3,381,000
Tomatoes Fresh							
Cherry	1991	1,600	15.88	25,400	ton	525.00	13,335,000
	1990	800	18.00	14,400	ton	640.00	9,216,000
Standard	1991	6,600	14.00	92,400	ton	325.00	30,030,000
	1990	6,000	18.83	113,000	ton	400.00	45,200,000

VEGETABLE CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Tomatoes	1991	107,000	30.78	3,293,000	ton	52.30	\$172,224,000
Processed	1990	104,000	35.50	3,692,000	ton	52.00	\$191,984,000
Other^c	1991	14,870					26,307,000
	1990	<u>12,380</u>					<u>27,030,000</u>
Total	1991	229,760					\$536,778,000
	1990	228,980					\$605,544,000

a Includes fresh and processed

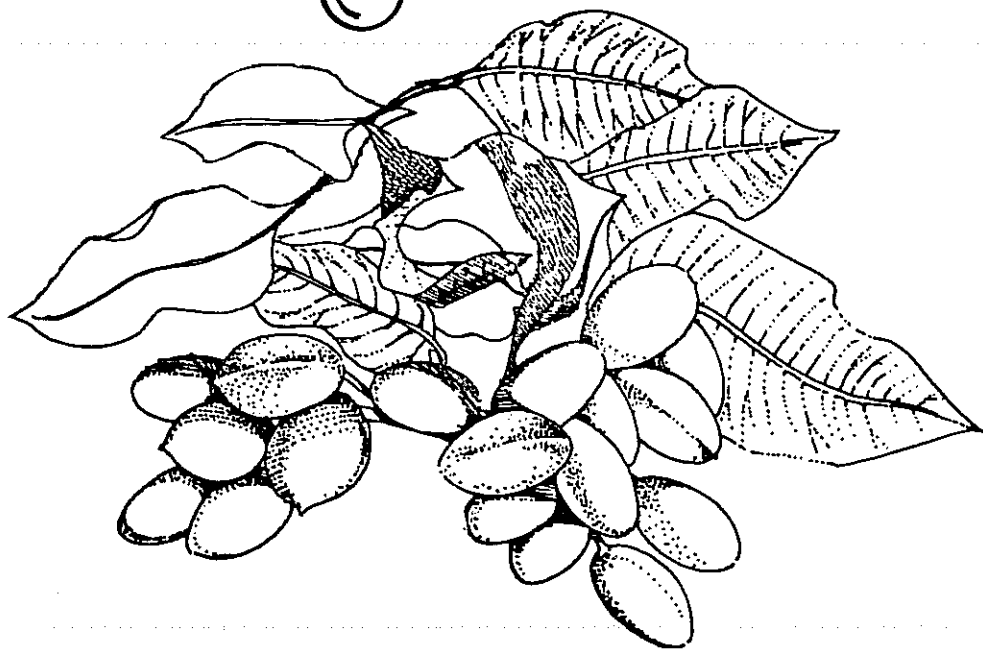
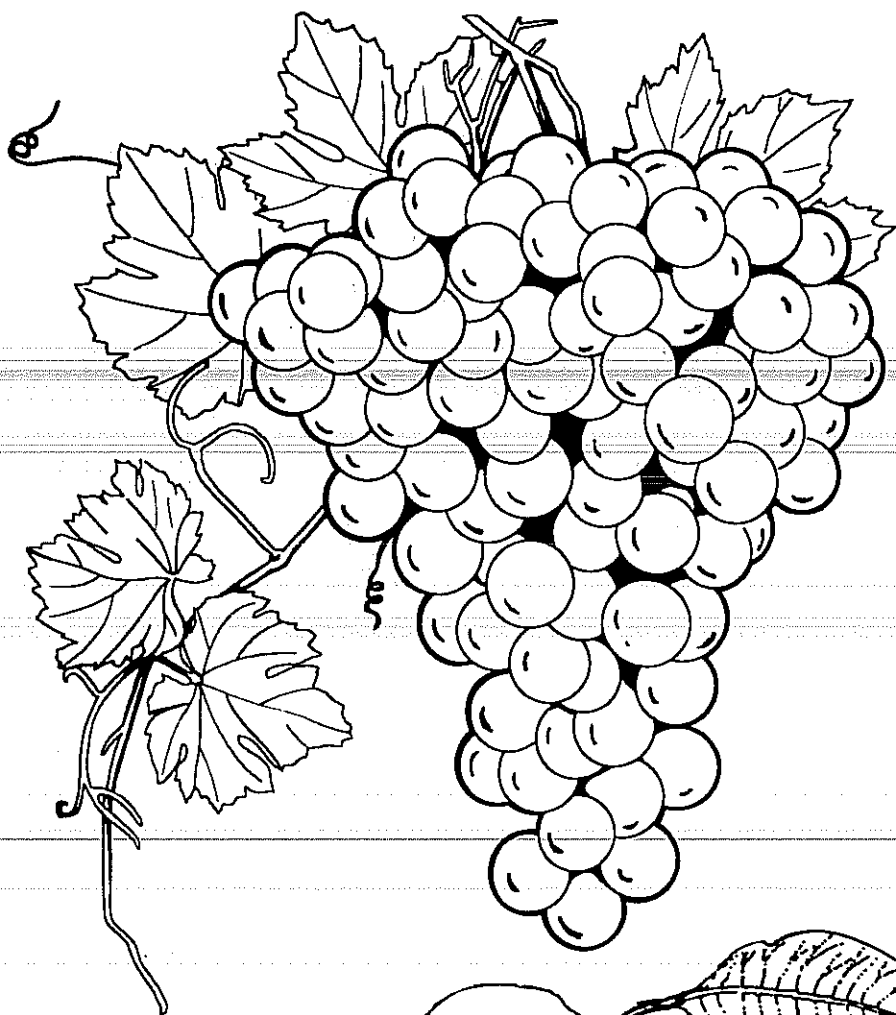
b Includes bittermelon, bok choy, daikon, dunqua, gai choy, gai lon, gobo, Japanese eggplant, lemon grass, lo bok, long bean, moqua, napa, opo, sinqua, sugar peas, taro and yu choy

c Includes argula, asparagus, basil, blackeye peas, baby and large lima beans, fava beans, green beans, beets, cabbage, cauliflower, Swiss and red chard, cilantro, collards, taco corn, cornnuts, cucumbers, kale, kohlrabi, leaf lettuce, mushrooms, mustard greens, green onions, parsley, peas, chili peppers, pumpkins, radishes, sunchokes and turnips

d Casaba, crenshaw, juan canary, persian, santa claus, sharlyn

e Includes soft and hard types

f Not previously reported separately



FRUIT & NUT CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Almonds	1991	25,783	.76	19,600	ton	\$2,300.00	\$ 45,080,000
	1990	29,367	.93	27,300	ton	\$1,800.00	\$ 49,140,000
Almond Hulls	1991			39,200	ton	57.00	2,234,000
	1990			54,400	ton	70.00	3,808,000
Apricots	1991	526	5.91	3,110	ton	1,250.00	3,888,000
	1990	523	4.30	2,250	ton	990.00	2,228,000
Citrus							
Lemons	1991	1,009	7.82				
	1990	1,010	11.25				
Fresh	1991			1,290	ton	680.00	877,000
	1990			7,580	ton	689.00	5,223,000
Processed	1991			6,600	ton	45.00	297,000
	1990			3,780	ton	110.00	416,000
Oranges							
Navel	1991	16,056	4.00				
	1990	15,968	15.84				
Fresh	1991			23,600	ton	490.00	11,564,000
	1990			182,000	ton	376.00	68,432,000
Processed	1991			40,600	ton	24.00	974,000
	1990			70,900	ton	85.00	6,027,000
Valencia	1991	4,110	.09				
	1990	4,183	13.84				
Fresh	1991			13	ton	526.00	6,840
	1990			36,100	ton	447.00	16,137,000
Processed	1991			370	ton	34.00	12,600
	1990			21,800	ton	105.00	2,289,000
Other ^a	1991	621	3.22				
	1990	598	13.34				
Fresh	1991			580	ton	690.00	400,000
	1990			5,650	ton	560.00	3,164,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Other ^a (continued)							
Processed	1991			1,420	ton	\$ 32.00	\$ 45,400
	1990			2,330	ton	\$ 87.00	\$ 203,000
Figs, dried	1991	1,680	1.00	1,680	ton	1,160.00	1,949,000
	1990	3,000	.87	2,610	ton	950.00	2,480,000
Grapes							
Raisin Varieties	1991	162,000	9.84				
	1990	163,075	9.45				
Canned	1991			6,400	ton	220.00	1,408,000
	1990			5,760	ton	218.00	1,256,000
Crushed	1991			179,000	ton	147.00	26,313,000
	1990			147,000	ton	126.00	18,522,000
Dried	1991			289,000	ton	982.00	283,798,000
	1990			298,000	ton	880.00	262,240,000
Fresh	1991			61,200	ton	760.00	46,512,000
	1990			69,000	ton	834.00	57,546,000
Juice	1991			6,800	ton	445.00	3,026,000
	1990			7,400	ton	380.00	2,812,000
Table Varieties	1991	8,580	9.20				
	1990	8,858	8.72				
Crushed	1991			16,300	ton	144.00	2,347,000
	1990			11,200	ton	90.00	1,008,000
Fresh	1991			62,600	ton	850.00	53,210,000
	1990			66,000	ton	868.00	57,288,000
Wine Varieties	1991	32,900	9.26				
	1990	33,715	10.28				
Crushed	1991			301,000	ton	159.00	47,859,000
	1990			342,000	ton	155.00	53,010,000
Juice	1991			3,780	ton	406.00	1,535,000
	1990			4,750	ton	400.00	1,900,000
Grapes Total	1991	203,480					466,008,000
	1990	205,648					455,582,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Kiwi	1991	308	2.76	850	ton	\$1,580.00	\$ 1,343,000
	1990	326	3.00	978	ton	\$1,330.00	\$ 1,301,000
Nectarines	1991	12,985	8.16	106,000	ton	630.00	66,780,000
	1990	13,071	7.96	104,000	ton	760.00	79,040,000
Olives, canned	1991	1,320	2.00	2,640	ton	713.00	1,882,000
	1990	1,208	3.80	4,590	ton	490.00	2,249,000
Peaches							
Clingstone	1991	1,332	11.94	15,900	ton	225.00	3,578,000
	1990	1,296	17.98	23,300	ton	216.00	5,033,000
Freestone	1991	11,897	9.83	117,000	ton	580.00	67,860,000
	1990	11,910	10.08	120,000	ton	728.00	87,360,000
Peaches Total	1991	13,229					71,438,000
	1990	13,206					92,393,000
Pears, Asian and European	1991	318	4.31	1,370	ton	1,050.00	1,439,000
	1990	299	4.82	1,440	ton	1,020.00	1,469,000
Pecans	1991	367	.73	268	ton	2,500.00	670,000
	1990	374	.83	310	ton	2,580.00	800,000
Persimmons	1991	294	4.70	1,380	ton	1,256.00	1,733,000
	1990	286	6.29	1,800	ton	840.00	1,512,000
Pistachios	1991	1,955	.90	1,760	ton	2,960.00	5,210,000
	1990	1,819	.68	1,240	ton	2,220.00	2,753,000
Plums	1991	17,487	6.52	114,000	ton	666.00	75,924,000
	1990	17,703	8.02	142,000	ton	834.00	118,428,000
Pomegranates	1991	947	4.18	3,960	ton	859.00	3,402,000
	1990	953	6.09	5,800	ton	780.00	4,524,000
Prunes, dried	1991	1,334	3.34	4,460	ton	880.00	3,925,000
	1990	1,206	2.90	3,500	ton	780.00	2,730,000
Strawberries^c	1991	650	13.66	8,880	ton	830.00	7,370,000
	1990	180	13.50	2,430	ton	630.00	1,531,000
Walnuts	1991	3,069	1.52	4,670	ton	1,115.00	5,207,000
	1990	2,983	1.31	3,910	ton	910.00	3,558,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Other ^b	1991	1,700					\$ 18,381,000
	1990	<u>2,010</u>					\$ <u>13,502,000</u>
Total	1991	309,228					\$ 798,039,840
	1990	315,921					\$ 940,919,000

a Includes mandarin/tangerines and tangelos

b Includes apples, boysenberries, blackberries, cherries, fresh figs, substandard figs, olive oil, fresh olives, processed apricots, processed nectarines, processed peaches, processed pears and quince

c Includes fresh and processed



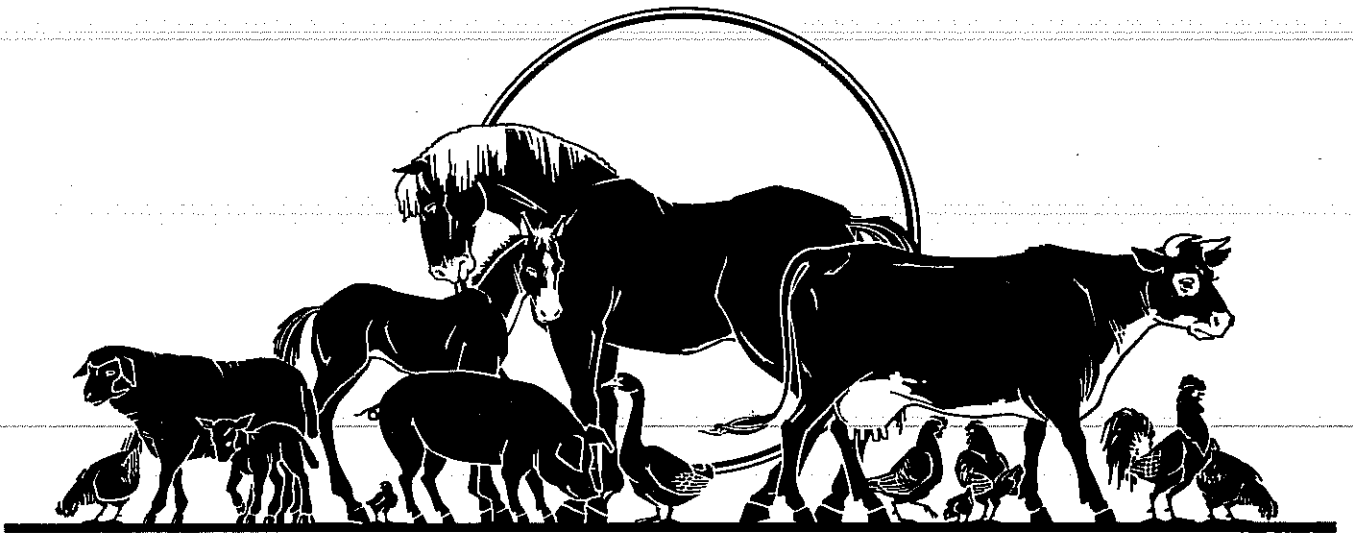
NURSERY PRODUCTS

ITEM	YEAR	ACRES	QUANTITY	UNIT	VALUE
Christmas Trees	1991	129	12,800	trees	\$ 262,000
	1990	125	12,300	trees	\$ 277,000
Herbaceous Ornamentals ^a	1991	15	109,000	b	783,000
	1990	15	119,000	b	784,000
Ornamental Trees and Shrubs	1991	65	2,226,000	plants	6,501,000
	1990	65	2,090,000	plants	5,445,000
Other ^c	1991	220	71,617,000	plants	10,528,000
	1990	<u>295</u>	69,674,000	plants	<u>11,688,000</u>
Total	1991	429			\$18,074,000
	1990	500			\$18,194,000

a Includes cut flowers, cut greens, potted plants, bedding plants and herbaceous perennials

b Includes flats, dozens, cans, and single plants

c Includes bareroot fruit & nut trees, grape rootings and vegetable plants



LIVESTOCK & POULTRY

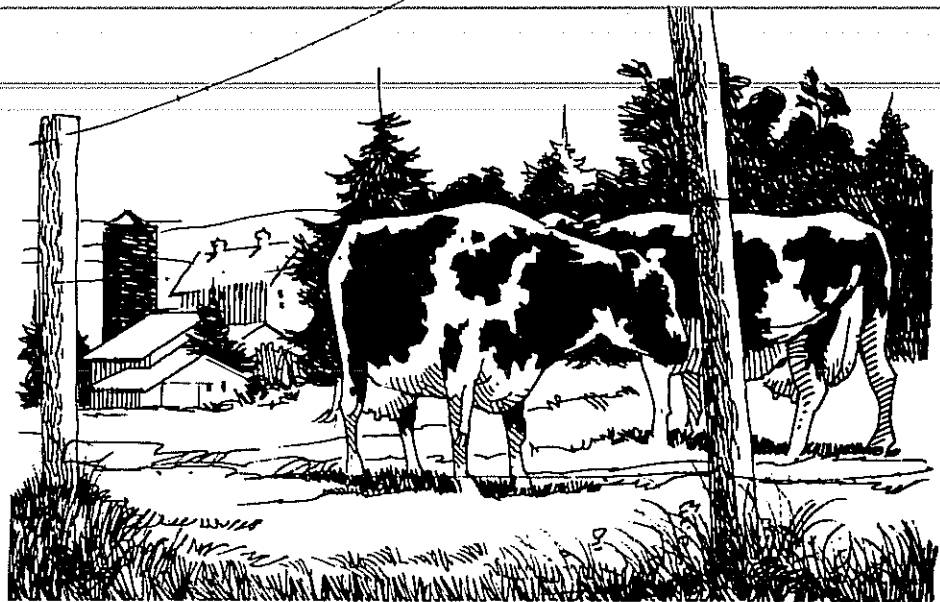
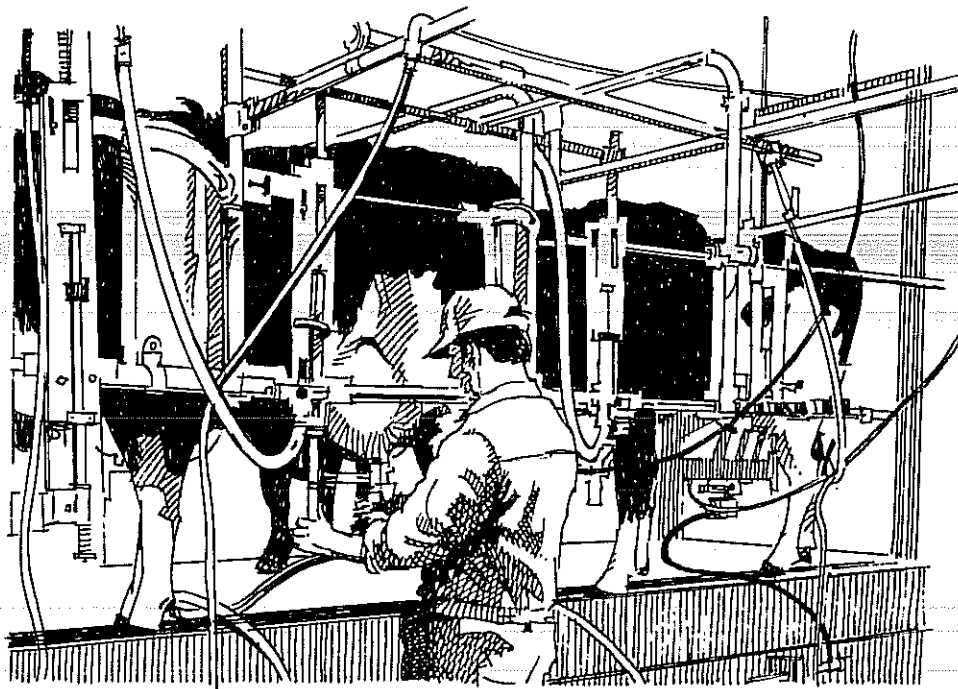
ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Cattle and Calves						
Beef						
Breeding Stock						
Common	1991	1,236		head	\$ 600.00	\$ 742,000
	1990	1,280		head	\$ 600.00	\$ 768,000
Registered	1991	309		head	1,250.00	386,000
	1990	320		head	1,250.00	400,000
Feeders	1991	156,443	313,000	cwt.	88.30	27,638,000
	1990	148,000	296,000	cwt.	74.50	22,052,000
Calves	1991	21,680	65,000	cwt.	101.00	6,565,000
	1990	22,500	67,400	cwt.	88.50	5,965,000
Slaughter Stock						
From Feed Lots	1991	366,447	1,722,000 ^a	cwt.	74.26	127,876,000
	1990	251,000	1,182,000 ^a	cwt.	65.00	76,830,000
From Other Sources	1991	4,635	40,800	cwt.	48.21	1,967,000
	1990	4,800	42,200	cwt.	51.00	2,152,000
Dairy						
Breeding Stock	1991	8,336		head	1,250.00	10,420,000
	1990	7,968		head	1,300.00	10,358,000
Cull Stock	1991	19,500	254,000	cwt.	46.50	11,811,000
	1990	18,600	242,000	cwt.	47.30	11,447,000
Calves	1991	15,626	46,900	cwt.	95.00	4,456,000
	1990	14,900	44,700	cwt.	100.00	4,470,000
Hogs and Pigs						
Feeder Pigs and Slaughter Stock	1991	11,100	22,600	cwt.	57.61	1,302,000
	1990	11,500	23,400	cwt.	58.46	1,368,000

LIVESTOCK & POULTRY (continued)

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Sheep and Lambs						
Slaughter Stock						
Lambs	1991	66,600	63,200	cwt.	\$52.83	\$ 3,402,000
	1990	73,600	69,900	cwt.	\$58.24	\$ 4,071,000
Sheep	1991	17,000	23,800	cwt.	17.90	426,000
	1990	18,800	26,300	cwt.	21.03	553,000
Turkeys	1991	10,896,000	255,727,000	lb.	.56	143,207,000
	1990	14,348,000	329,611,000	lb.	.58	191,174,000
Other ^b	1991					212,421,000
	1990					<u>222,681,000</u>
Total	1991					\$552,619,000
	1990					\$554,289,000

a Net feedlot gain

b Includes chickens, fish, game birds, squab, turkey poults and old turkey breeder birds



LIVESTOCK & POULTRY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
Manure	1991	434,000	ton	\$ 5.23	\$ 2,270,000
	1990	584,000*	ton	\$ 7.56	\$ 4,415,000*
Milk					
Manufacturing	1991	26,900	cwt.	10.04	270,000
	1990	154,000	cwt.	11.12	1,712,000
Market	1991	12,796,000	cwt.	10.92	139,732,000
	1990	12,514,000*	cwt.	11.72	146,664,000*
Wool	1991	680,000	lb.	.56	381,000
	1990	680,000	lb.	.91	619,000
Eggs					
Chicken & Turkey ^a	1991	1,659,000	dozen	5.35	8,876,000
	1990	1,740,000	dozen	4.40	<u>7,656,000</u>
Total	1991				\$151,529,000
	1990				\$161,066,000*

^a Includes market eggs and hatching eggs

* Revised

JANUARY 1 INVENTORIES OF LIVESTOCK AND POULTRY (In Number of Head)

ITEM	January 1, 1991	January 1, 1990
Cattle and Calves		
All	339,000	356,000
Dairy and Beef Cows	96,000	95,900
Cattle on Feed	76,000	101,000
Stock Sheep and Lambs	85,000	85,000
Goats	5,000	1,300
Hogs and Pigs	7,000	6,000
Poultry	6,247,000	3,931,000



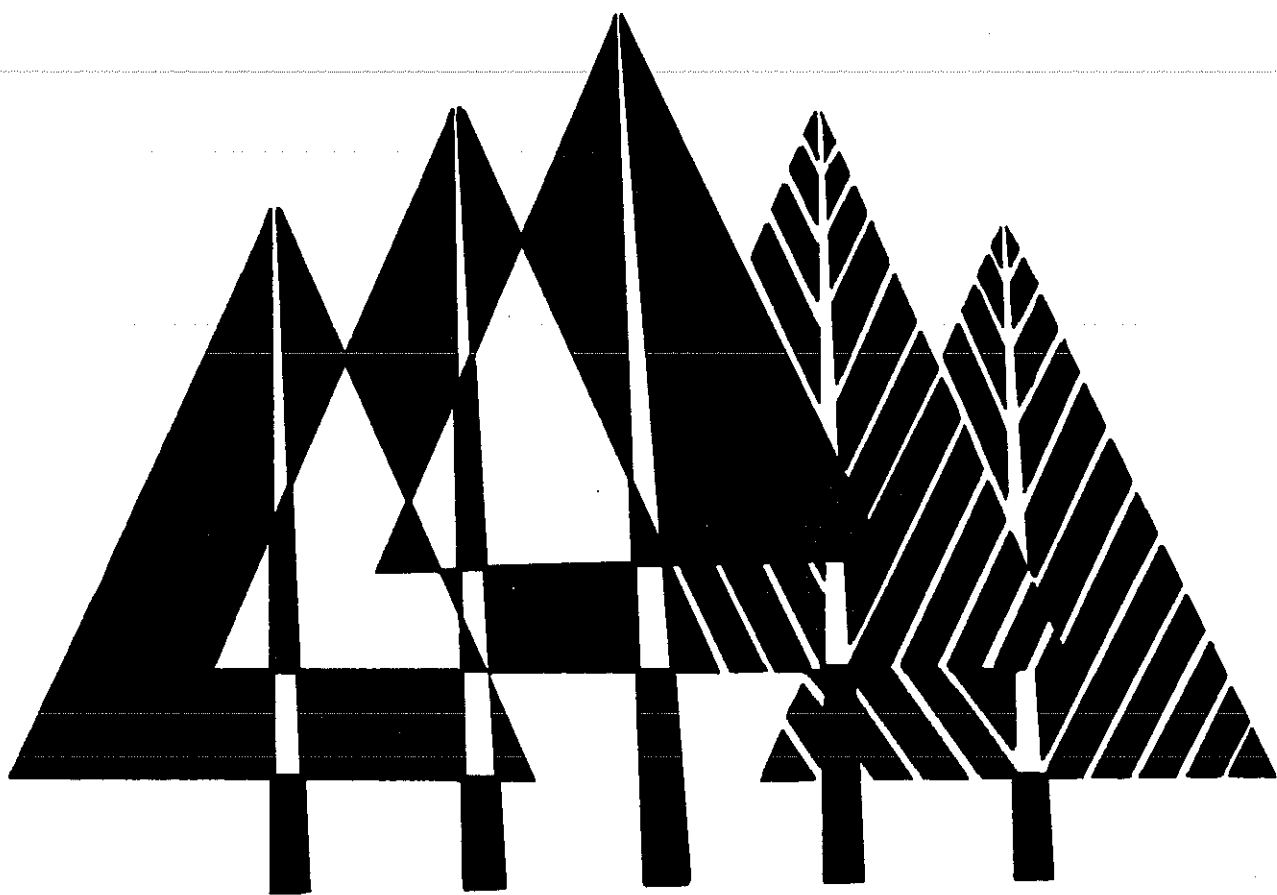
APIARY PRODUCTS AND POLLINATION SERVICES

ITEM	YEAR	PRODUCTION TOTAL	UNIT	VALUE	
				PER UNIT	TOTAL
Apiary Products ^a					
Honey	1991	1,386,000	lb.	\$.53	\$ 735,000
	1990	2,214,000	lb.	\$.51	\$ 1,129,000
Beeswax	1991	73,800	lb.	1.09	80,400
	1990	138,000	lb.	1.05	145,000
Pollination ^b					
Alfalfa Seed	1991	81,800	colony	19.30	1,579,000
	1990	138,000	colony	20.80	2,870,000
Tree Fruit ^c	1991	94,600	colony	31.20	2,952,000
	1990	67,600	colony	31.30	2,116,000
Cantaloupe	1991	39,600	colony	17.20	681,000
	1990	40,300	colony	14.49	<u>584,000</u>
Total	1991				\$ 6,027,400
	1990				\$ 6,844,000

a Reflects bee colonies registered in Fresno County by commercial and semi-commercial beekeepers:
1991 - 34,476 colonies; 1990 - 50,300 colonies

b Reflects value of pollination by all bee colonies located in Fresno County for pollination services during 1991. Estimated total colonies: 117,190

c Almonds, cherries and plums



INDUSTRIAL CROPS

CROP	YEAR	PRODUCTION	UNIT (a)	VALUE (b)
Timber	1991	59,609,000	board feet	\$ 8,253,000
	1990	88,774,000	board feet	\$ 12,093,000
Fire Wood	1991	4,080	ords	20,400
	1990 ^c			
Total	1991			\$ 8,273,400
	1990			\$ 12,093,000

a Board feet is the quantity of timber cut and sealed

b Value of timber immediately prior to cutting

c Not previously reported

**GROWTH IN FRESNO COUNTY AGRICULTURE AS INDICATED BY GROSS PRODUCTION
VALUE OF AGRICULTURAL PRODUCTS OVER A TWENTY- ONE YEAR SPAN**

1971 -	507,930,600*	1982 -	1,855,733,500
1972 -	559,307,000*	1983 -	1,727,319,500
1973 -	828,682,000*	1984 -	1,921,020,840*
1974 -	967,350,000	1985 -	2,054,060,400*
1975 -	1,026,356,000*	1986 -	2,125,721,200*
1976 -	1,178,373,000*	1987 -	2,264,044,000*
1977 -	1,110,424,200*	1988 -	2,444,732,600*
1978 -	1,241,033,100*	1989 -	2,607,648,800*
1979 -	1,719,235,500	1990 -	2,949,484,000*
1980 -	2,002,448,900*	1991 -	2,611,403,040
1981 -	1,905,289,240*		

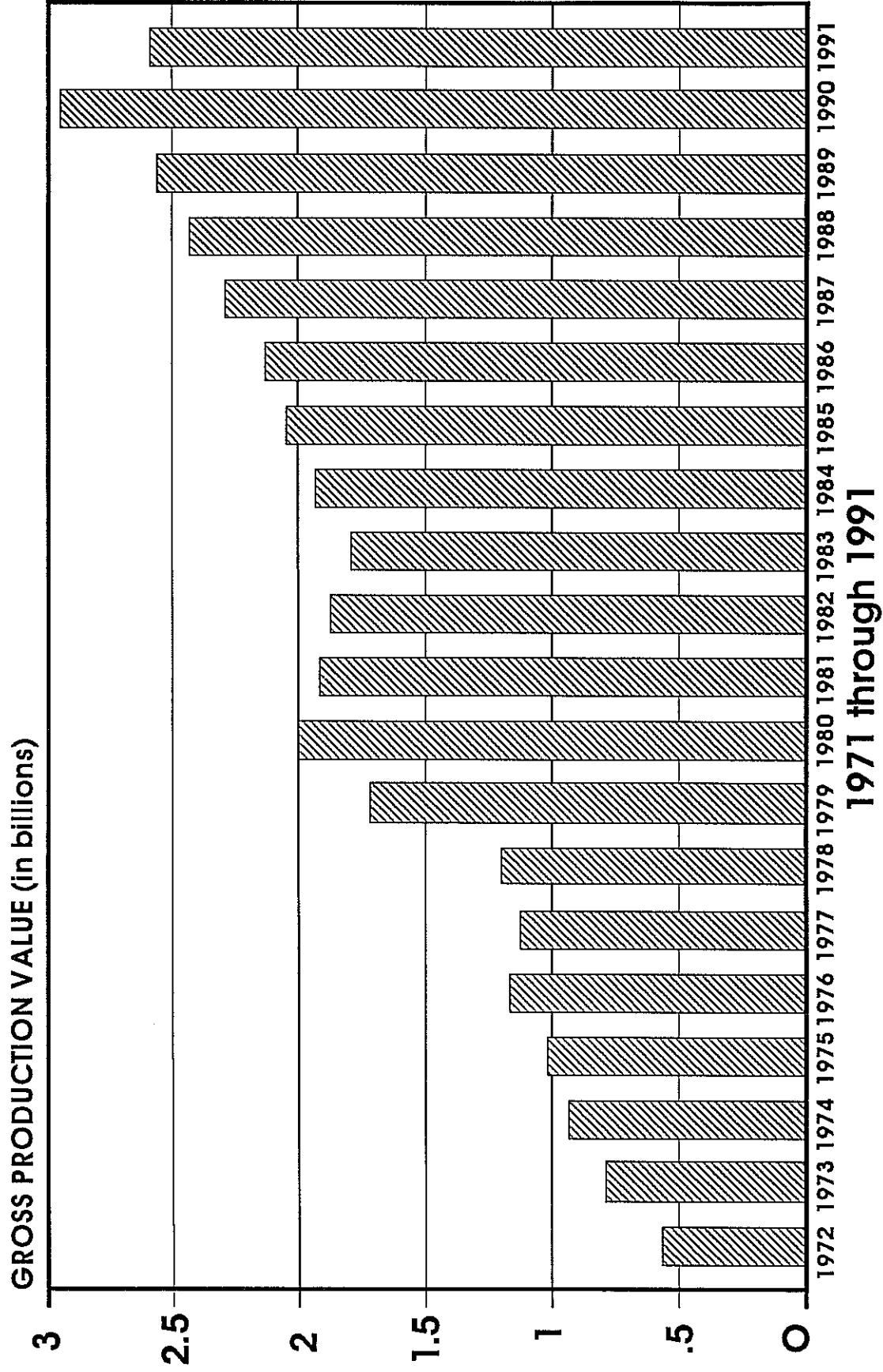
SIX YEAR COMPARISON OF GROSS PRODUCTION VALUE IN FRESNO COUNTY

	1971	1981	1988	1989	1990	1991
Field Crops	\$137,464,800*	\$580,238,000	\$573,649,000*	\$554,487,000*	\$597,457,000	\$500,333,000
Seed Crops	15,216,000	46,716,000	45,216,000	52,401,000	53,078,000	39,729,400
Vegetable Crops	47,585,300*	186,262,000	447,922,000	513,743,000	605,544,000	536,778,000
Fruit & Nut Crops	195,375,100*	679,717,300*	877,319,100	855,915,000	940,919,000	798,039,840
Nursery Products	1,167,400*	5,675,000	13,805,000*	13,670,000	18,194,000	18,074,000
Livestock & Poultry	110,494,500*	396,568,000	477,382,000	605,137,000*	715,355,000*	704,148,000
Apiary	625,500*	5,412,940	5,649,500*	6,189,800	6,844,000	6,027,400
Industrial Crops	+	4,700,000	3,790,000	6,106,000	12,093,000	8,273,400
TOTAL	\$507,930,600*	\$1,905,289,240*	\$2,444,732,600*	\$2,607,648,800*	\$2,949,484,000*	\$2,611,403,040

*Revised

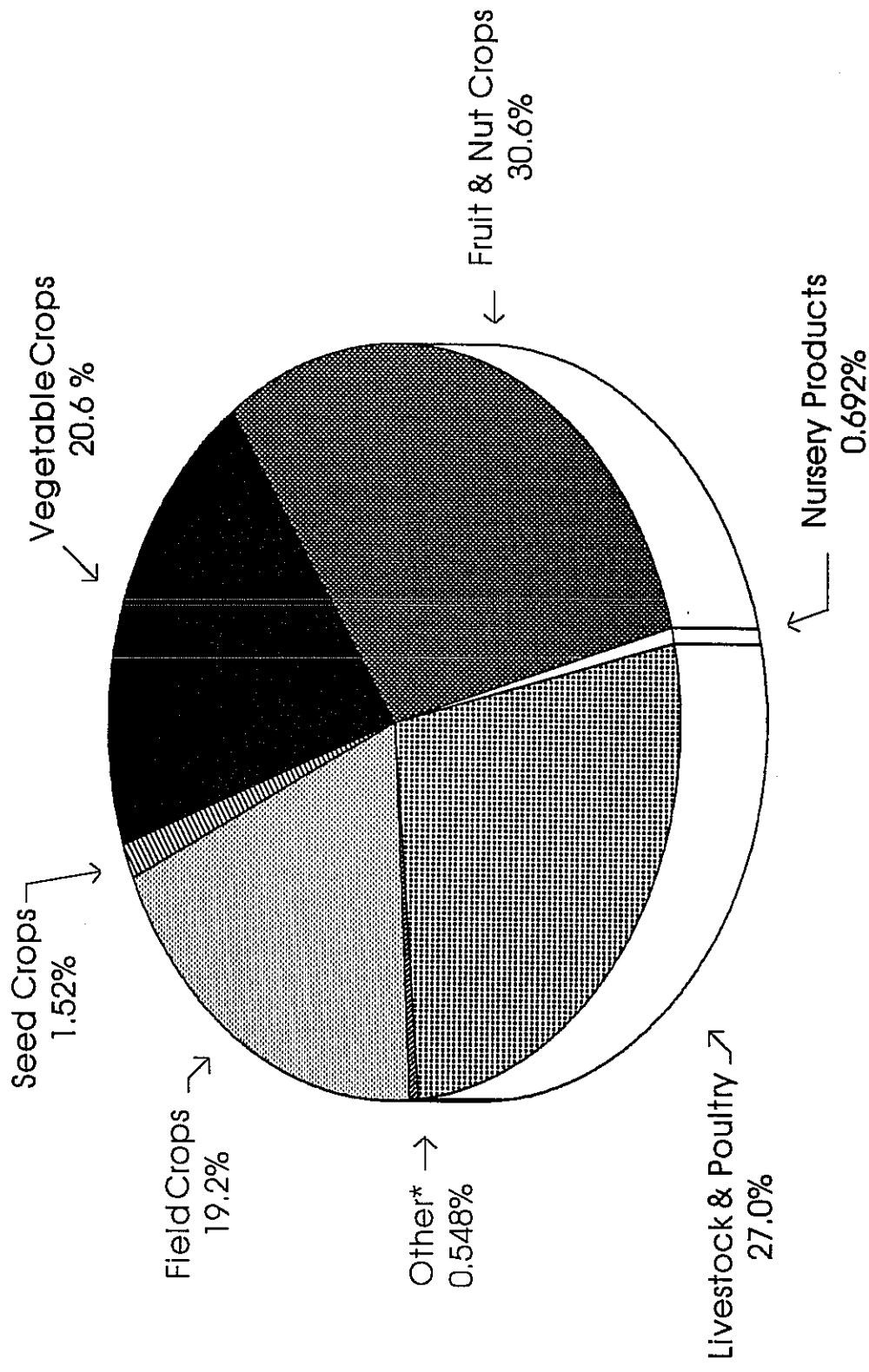
+Not reported

GROWTH OF FRESNO COUNTY AGRICULTURE OVER A TWENTY YEAR SPAN



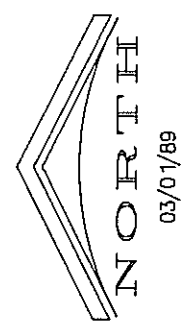
RELATIONSHIP IN TERMS OF TOTAL VALUE

CROP REPORT YEAR 1991



Total Value \$2,611,403,040

* Aplyary Products and Pollination Services & Industrial Crops



County of



Department of Agriculture

Cosmo C. Insalaco
Agricultural Commissioner
Sealer of Weights & Measures

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

The Honorable Board of Supervisors
County of Fresno

Stan Oken, Chairman
A. Vernon Conrad Sharon Levy
Deran Koligian Doug Vagim

William H. Randolph
County Administrative Officer

I am pleased to submit the 1992 Fresno County Agricultural Crop and Livestock Report. This annual compilation presents statistical data pertaining to the acreage, yield, and gross value of Fresno County agricultural products.

The total gross production value of Fresno County agricultural commodities in 1992 was \$2,640,614,400.00. This represents a 3.46 percent increase from the 1991 gross production values.

It must be emphasized that the values presented in this report reflect gross values only, and do not in any manner reflect net income or loss to producers.

1992 was the sixth consecutive drought year experienced by Fresno County growers and resulted in increasing negative impact of varying degrees to the entire agricultural industry in the county.

Agriculture continues as the major industry in Fresno County and is a driving force in the county's economy. Every dollar received by Fresno County producers results in three and one-half dollars economic extension benefit to the total economy of the county.

I sincerely appreciate the professional and dedicated work performed by Deputy Agricultural Commissioner/Sealer Dennis C. Plann; Supervising Agricultural/Standards Specialist Bruce L. Clayton; Agricultural/Standards Specialists Scotti E. Abell and Thomas M. Schackmann, as well as the rest of my staff at the Department of Agriculture for the preparation of this report.

My thanks to the many individuals, related agencies and members of the agricultural industry for their contributions in the compilation of this report.

Best Regards,

Cosmo C. Insalaco
Agricultural Commissioner/Sealer

"To American agriculture, the quiet giant that contributes more to our balance of payments than any other export; that has increased productivity more consistently than any other segment of our economy, that feeds more people at less cost than has ever happened in any other part of the world or at any time in history."

American Author

"Whoever makes two ears of corn, or two blades of grass to grow, where only one grew before, deserves better of mankind, and does an essential service to his country."

Jonathan Swift

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FRESNO COUNTY'S 10 LEADING CROPS

Crop	1992 Rank	1992 Dollar Value	1991 Rank	1982 Rank	1972 Rank
GRAPES	1	534,259,000	1	1	1
COTTON	2	438,419,000	2	2	2
TOMATOES	3	184,732,000	3	4	8
MILK	4	147,962,000	6	5	5
CATTLE & CALVES	5	129,129,000	4	3	3
TURKEYS	6	87,840,000	5	12	14
ORANGES	7	80,543,000	18	8	13
PEACHES	8	74,462,000	9	11	10
NECTARINES	9	69,600,000	10	10	11
PLUMS	10	55,660,000	8	7	9

1992 Retrospect Highlights

Early storms in February brought hope that the five year drought was over. Nine of the state's ten hydrologic regions reported above normal rainfall totals. April's precipitation however, was below normal and warm weather caused the spring snow melt to begin early. The water content of the Sierra snow pack was 60 percent of normal on April 1, 1992 and 27 percent of normal by April 27. By September 30, the end of the water year, storage at the major Central Valley Project reservoirs was 42 percent of the historical average. It was evident that California was in the sixth year of the longest drought since the 1930's.

Growers have had to deal with decreasing profitability of their farming operations as the drought continued. They have been forced to pump more water and make substantial investment in well reconditioning and deepening. In many areas, increased pumping has resulted in overdrafting of the groundwater aquifer, resulting in reduced discharge capacities, well failures and lower water quality. Some growers were faced with the possibility of not having enough water for their permanent plantings, while others had to leave land fallow and save water for more valuable crops.

1992 was the year orange growers had their first full crop since the disastrous freeze of late December, 1990. Initial estimates set the statewide navel crop at 75 percent of normal, but by the end of the season it was one of the largest crops in history. For lemon growers this was not the case; their trees have been slow to recover from the effects of the freeze.

FIELD CROPS: Total gross returns for all field crops increased by \$48,829,000 to \$549,162,000, while the harvested acreage increased to 1,437,970 acres. Cotton was the county's most valuable field crop. For the fifth consecutive year it was the second most valuable crop in the county, with gross returns of \$438,419,000. The harvested acreage of acala cotton decreased by 15,000 acres, while pima cotton increased by 81.63 percent. The value of the dry bean crop increased by 19.96 percent to \$8,768,000, as a result of a 22.5 percent increase in acreage, and an increase of \$69.00 in price per ton. Sugar beet acreage was down by 6,400 acres and the gross returns were down by \$6,130,000. While wheat acreage remained the same as in 1991, an increase in yield and price resulted in an increase of \$1,985,000, or 26.54 percent, in the total gross value.

SEED CROPS: Total gross returns for seed crops decreased by \$8,694,400 and the harvested acreage was 6.09 percent less than in 1991. The total returns for certified alfalfa fell by 19.69 percent to \$17,120,000, while gross returns for non-certified alfalfa increased by \$264,000. Even though the price per pound for certified and non-certified barley decreased, harvested acreage and yields were up, reflecting a \$194,400 increase in total returns. The total gross returns for certified wheat decreased by \$6,017,800, or 52.76 percent, due to a reduction in harvested acreage, yield per acre and price per pound.

VEGETABLE CROPS: The total gross returns for all vegetable crops decreased by 13.58 percent to \$453,325,000, and the total harvested acreage decreased by 23,800 acres. Even though the total value fell 14.31 percent to \$184,732,000, tomatoes remained third on the county's top ten list for the fifth consecutive year. Total returns for spring head lettuce increased by 4.51 percent to \$27,729,000. The gross returns for the fall crop, however, fell by \$40,399,000, or 59.70 percent, as a result of a large decrease in price per ton. Although the cantaloupe acreage

decreased by 3,000 acres, total gross returns increased by \$20,288,000, due to an increase in return per ton and yield per acre. Total gross returns for garlic decreased, even though harvested acreage increased by 2,600 acres. This was due to a lower yield per acre and return per ton. Harvested acreage of sweet corn remained the same as in 1991, but the yield per acre increased 51.53 percent and the gross returns by 34.55 percent to 5,483,000.

FRUIT AND NUT CROPS: Total gross returns increased by \$139,584,360, or 17.49 percent, to \$937,624,200. For the fifth year in a row grapes remained the number one crop in the county with a total value of \$534,259,000, up 14.65 percent from last year's \$466,008,000. Total grape acreage decreased slightly, but yield per acre increased. The value of crushed raisin varietal grapes increased by \$55,175,000, as a result of a 158.65 percent increase in total production and a greater return per ton. The total returns for table varieties were down by \$8,349,000 or 15.03 percent. The price per ton, and total production for wine varieties were up, this increased total returns by \$17,370,000. As the citrus industry continued to recover from the devastating freeze of December 1990, oranges were again on the county's top ten list at number seven. The total gross value of the fresh navel crop for 1992 was \$62,015,000, while the fresh valencia crop totaled \$13,728,000. Lemon growers, still struggling under the effects of the freeze, saw their yield drop to 0.43 tons per acre and gross returns decreased 83.46 percent to \$194,200. Plums dropped from eighth to tenth place on the county's list of top ten crops, even though harvested acreage and yield per acre increased. Price per ton decreased 30.93 percent to \$460.00 a ton; this resulted in a reduction of \$20,264,000 in gross value. The total gross value of nectarines increased by \$2,820,000, or 4.22 percent, while return per ton decreased and both acreage and total production increased.

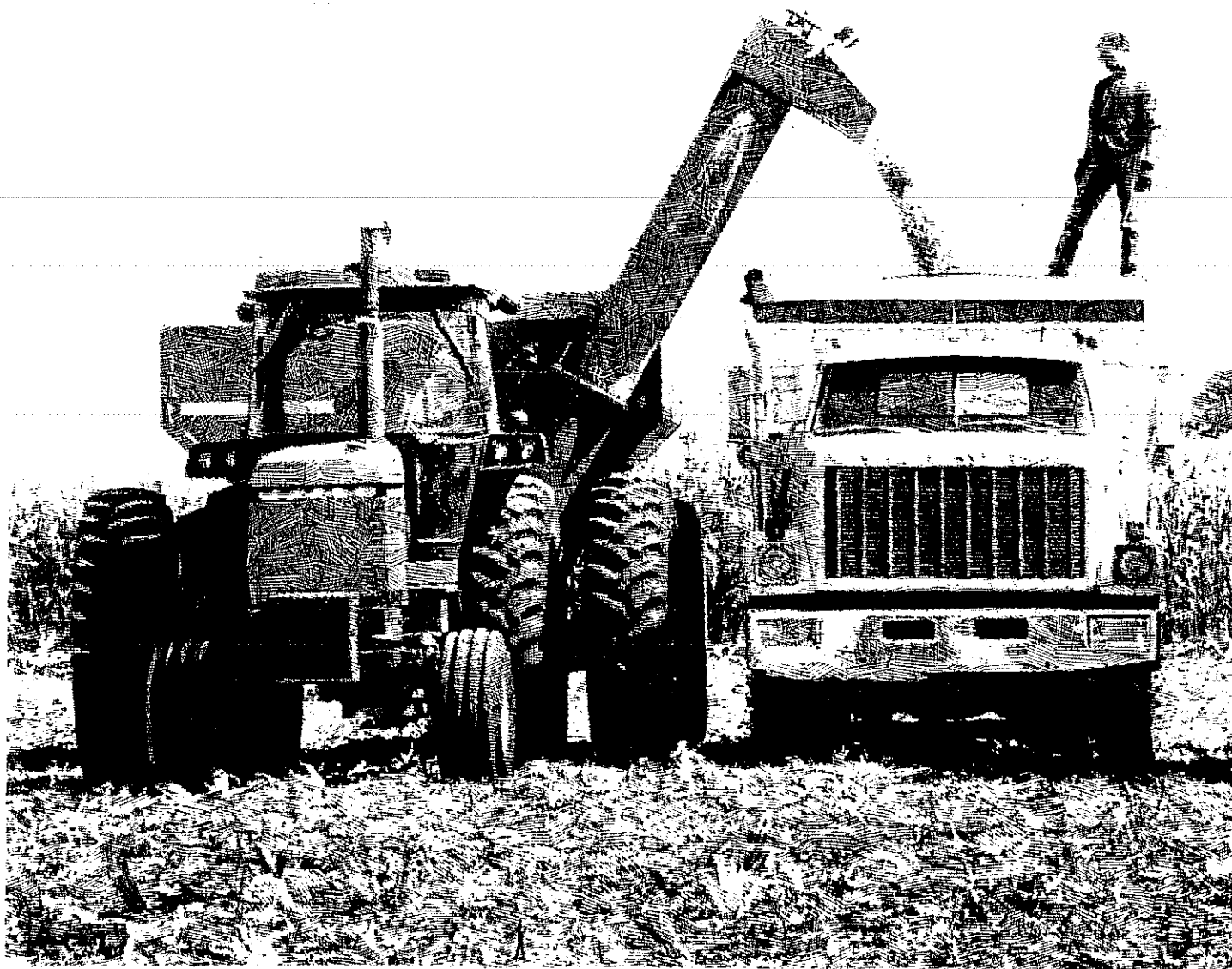
NURSERY PRODUCTS: The gross returns from the sales of nursery products decreased by \$1,327,000 to \$16,747,000. The returns for other nursery crops, which includes bareroot fruit and nut trees, grape rootings and vegetable plants, decreased by 5.11 percent to \$9,990,000. Both production and total value for ornamental trees and shrubs and Christmas trees were down. However, gross returns for herbaceous ornamentals increased by \$130,000 to total \$913,000.

LIVESTOCK AND POULTRY: Total gross returns decreased by \$21,448,000 or 4.24 percent to \$484,313,000. This year cattle and calves dropped from fourth to fifth place on the county's top ten leading crop list, and turkeys fell from fifth to sixth. Turkey production was down by 3,984,000 birds, and returns fell by \$55,367,000, or 38.66 percent. The price paid for lambs was \$16.17 per hundred weight higher than in 1991; total gross returns increased by \$966,000 to \$4,368,000. Beef slaughter stock from feed lots and other sources was down by 38,435 head, and gross returns decreased by 15.80 percent to \$69,872,000. Dairy breeding stock, cull stock, and calves were all up, and total gross returns increased by \$2,678,000.

LIVESTOCK AND POULTRY PRODUCTS: The total gross returns from livestock and poultry products increased by \$6,155,000 to total \$157,684,000. Milk, number six on the county's top ten list last year, moved to fourth place when the gross value increased by 5.69 percent to \$147,962,000. Wool production was down by 80,000 pounds, but a .23¢ per pound price increase raised total gross returns to \$474,000. The gross returns from eggs decreased by \$2,623,000 as a result of a decrease in price and total production.

APIARY PRODUCTS AND POLLINATION SERVICES: Gross returns decreased by 12.02 percent to \$5,303,000. Returns from honey were down by \$116,000, while the returns from the sale of beeswax was up by \$44,600 to \$125,000. Total value of pollination services, which includes alfalfa seed, tree fruit and cantaloupe, was down by 12.52 percent to \$4,559,000.

INDUSTRIAL CROPS: Timber returns were down by \$2,853,000 to \$5,400,000. This resulted from a reduction in the number of board feet harvested. Firewood production was up by 160 cords and the total gross returns increased to \$21,200 from \$20,400.



FIELD CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Barley	1992	14,000	2.04	28,600	ton	\$ 111.00	\$ 3,175,000
	1991	12,000	2.24	26,900	ton	\$ 112.00	\$ 3,013,000
Beans, dry	1992	14,700	.93	13,700	ton	640.00	8,768,000
	1991	12,000	1.07	12,800	ton	571.00	7,309,000
Corn							
Grain	1992	4,300	4.49	19,300	ton	117.00	2,258,000
	1991	3,100	3.74	11,600	ton	108.00	1,253,000
Silage	1992	15,000	22.93	344,000	ton	18.00 ^g	6,192,000
	1991	14,000	24.21	339,000	ton	18.00 ^g	6,102,000
Cotton, Acala							
Lint	1992	299,000	1,584 ^a	947,000 ^b	bale	.65 ^c	310,237,000
	1991	314,000	1,350 ^a	848,000 ^b	bale	.73 ^c	311,996,000
Seed	1992			350,000	ton	140.00	49,000,000
	1991			336,000	ton	130.00	43,680,000
Cotton, Pima							
Lint	1992	53,400	1,451 ^a	155,000 ^b	bale	.90 ^c	70,308,000
	1991	29,400	1,085 ^a	63,800 ^b	bale	1.00 ^c	32,155,000
Seed	1992			62,100	ton	122.00	7,576,000
	1991			25,000	ton	112.00	2,800,000
Hay							
Alfalfa ^d	1992	73,000	7.70	562,000	ton	81.00	45,522,000
	1991	73,000	7.40	540,000	ton	80.00	43,200,000
Other ^e	1992	10,500	3.00	31,500	ton	62.00	1,953,000
	1991	8,700	3.00	26,100	ton	75.00	1,958,000
Pasture and Range							
Alfalfa	1992	13,000			acre	14.00	182,000
Stubble ^f	1991	15,000			acre	13.00	195,000

FIELD CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Pasture and Range (continued)							
Irrigated Pasture	1992	40,000			acre	\$ 110.00	\$ 4,400,000
	1991	40,000			acre	\$ 110.00	\$ 4,400,000
Grazing Range	1992	850,000			acre	7.00	5,950,000
	1991	850,000			acre	7.00	5,950,000
Rice	1992	5,700	3.11	17,700	ton	200.00	3,540,000
	1991	5,700	3.75	21,400	ton	235.00	5,029,000
Safflower	1992	15,000	1.21	18,200	ton	308.00	5,606,000
	1991	4,200	.95	4,000	ton	280.00	1,120,000
Sugar Beets	1992	13,600	26.25	357,000	ton	36.40	12,995,000
	1991	20,000	25.50	510,000	ton	37.50	19,125,000
Wheat	1992	23,000	3.29	75,700	ton	125.00	9,463,000
	1991	23,000	2.85	65,600	ton	114.00	7,478,000
Other ^h	1992	6,770					2,037,000
	1991	<u>8,090</u>					<u>3,570,000</u>
Total	1992	1,437,970					\$549,162,000
	1991	1,417,190					\$500,333,000

a Pounds of lint per acre

b 500 pounds lint per bale

c Price per pound, 504 pounds gross weight per bale

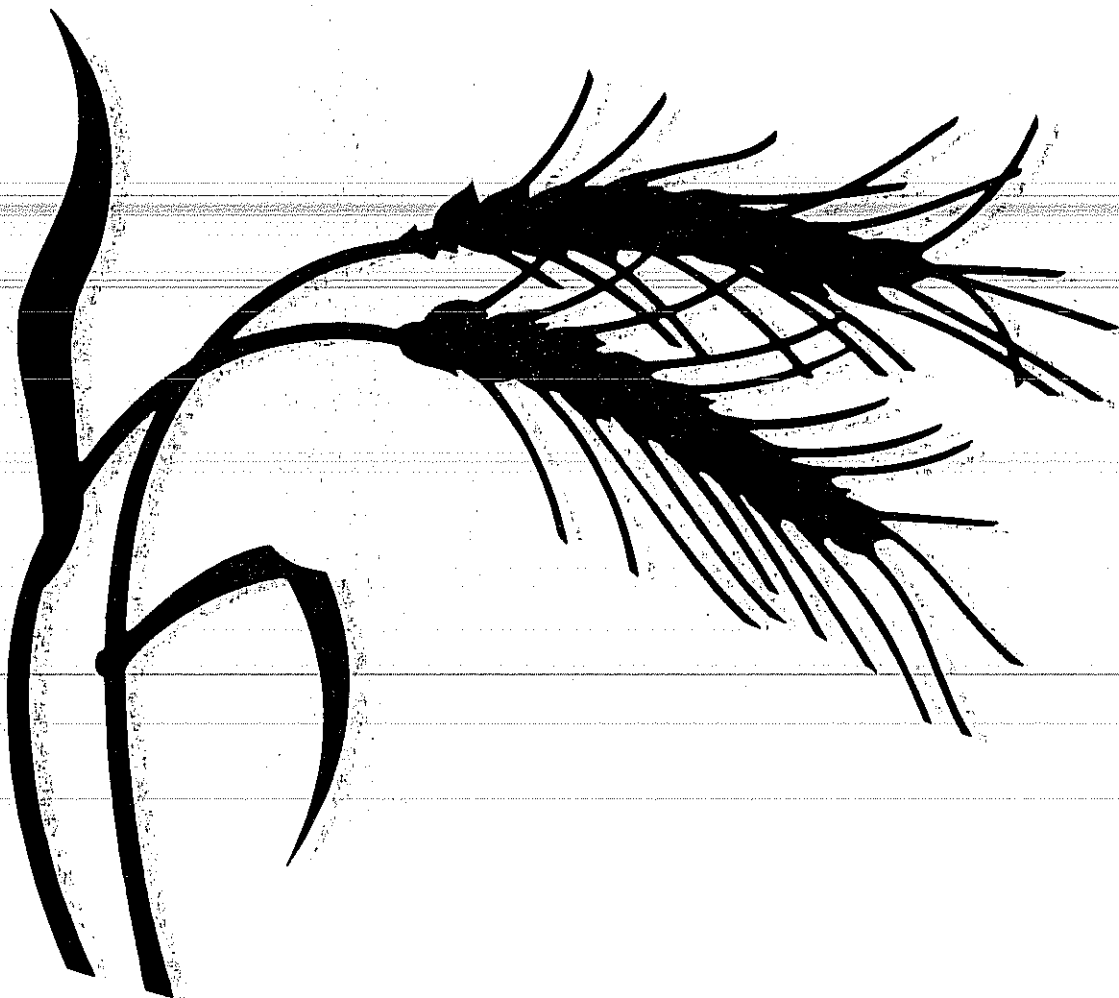
d Includes bales, cubes, and green chop

e Includes hay from barley, oats, and wheat

f Not included in total acreage figures; includes acreage from alfalfa hay and seed alfalfa

g Field price

h Includes oats, oat silage, straw, sudan, and winter forage



SEED CROPS

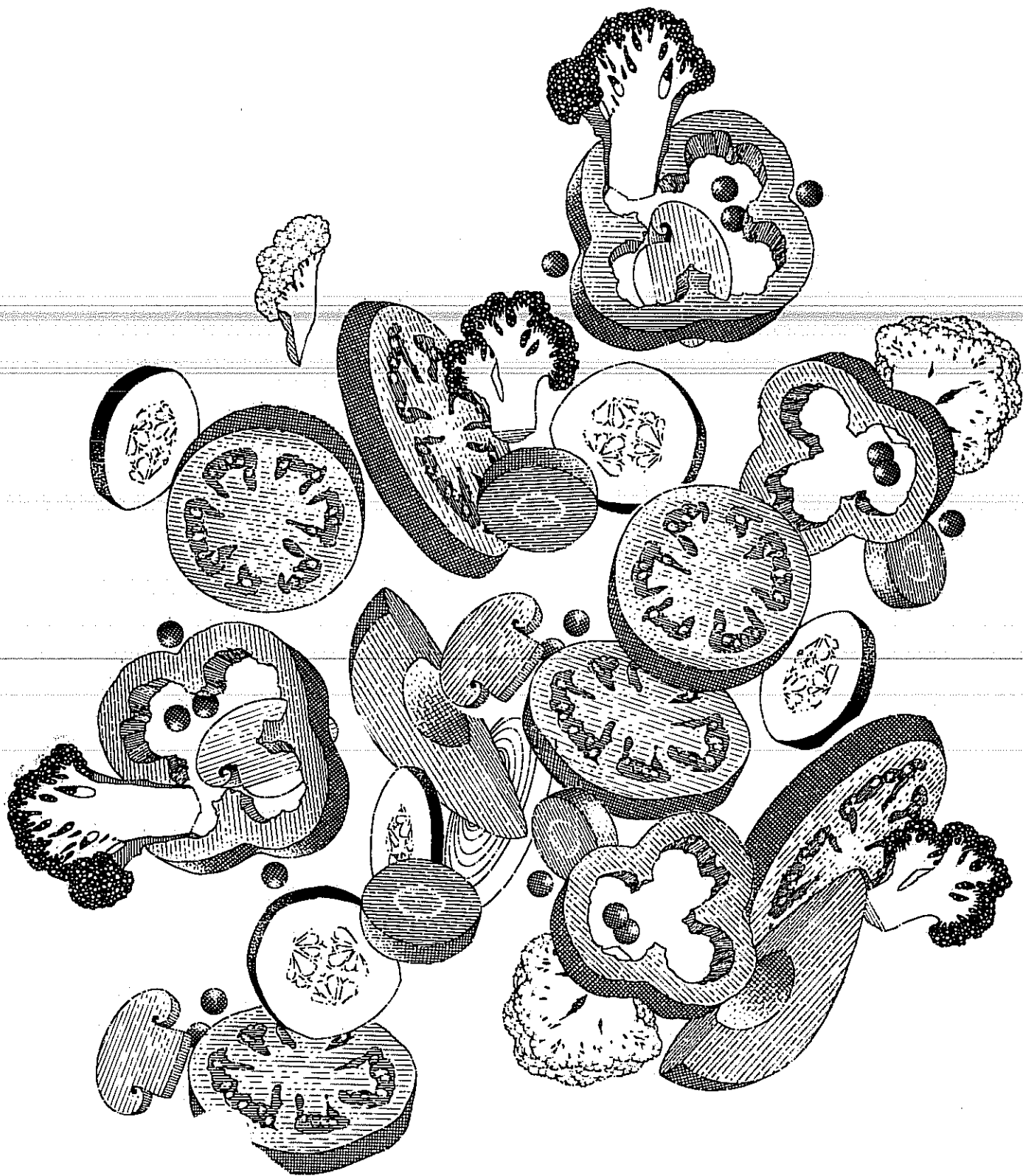
CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Alfalfa	1992	20,000	800	16,000,000	lb.	\$1.07	\$17,120,000
Certified	1991	22,800	850	19,380,000	lb.	\$1.10	\$21,318,000
Non-Certified	1992	6,400	685	4,384,000	lb.	.75	3,288,000
	1991	6,000	560	3,360,000	lb.	.90	3,024,000
Alfalfa Seed	1992	26,400		20,384,000	lb.		20,408,000
Total	1991	28,800		22,740,000	lb.		24,342,000
Barley	1992	1,700	5,000	8,500,000	lb.	.05	425,000
Certified	1991	1,100	3,800	4,180,000	lb.	.07	292,600
Non-Certified	1992	1,400	4,000	5,600,000	lb.	.04	224,000
	1991	900	3,000	2,700,000	lb.	.06	162,000
Cotton^a	1992	6,700		13,788,000	lb.	.09	1,298,000 ^b
	1991	8,400		7,533,000	lb.	.07	584,000 ^b
Vegetable^c	1992	1,600					2,073,000
	1991	1,240					1,634,000
Wheat	1992	13,500	5,700	76,950,000	lb.	.07	5,387,000
Certified	1991	16,200	6,400	103,680,000	lb.	.11	11,404,800
Non-Certified	1992	1,100	5,000	5,500,000	lb.	.06	330,000
	1991	1,200	6,000	7,200,000	lb.	.10	720,000
Other^d	1992	2,420					890,000
	1991	<u>1,800</u>					<u>590,000</u>
Total	1992	48,120					\$31,035,000
	1991	51,240					\$39,729,400

a Included in field crop acreage

b Includes \$30 per acre approval on 1,904 acres

c Cauliflower, eggplant, lettuce, onion, and tomato

d Certified blackeye beans, certified clover, certified fescue, certified and non-certified garbanzo beans, non-certified oats, certified rice, and non-certified safflower



VEGETABLE CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Bell Peppers ^a	1992	2,000	14.90	29,800	ton	\$300.00	\$ 8,940,000
	1991	1,600	12.25	19,600	ton	\$440.00	\$ 8,624,000
Broccoli ^a	1992	3,100	5.81	18,000	ton	540.00	9,720,000
	1991	4,500	3.91	17,600	ton	500.00	8,800,000
Carrots ^a	1992	410	21.71	8,900	ton	168.00	1,495,000
	1991	600	29.67	17,800	ton	110.00	1,958,000
Eggplant ^b	1992	770	8.96	6,900	ton	447.00	3,084,000
	1991	250	9.30	2,330	ton	340.00	792,000
Garlic ^a	1992	17,500	9.03	158,000	ton	214.00	33,812,000
	1991	14,900	9.60	143,000	ton	315.00	45,045,000
Head Lettuce							
Spring Season Total		Naked		69,100	ton		
		Wrapped		60,600	ton		
		Bulk		12,500	ton		
	1992	8,400	16.93	142,200	ton	195.00	27,729,000
	1991	8,210	14.69	120,600	ton	220.00	26,532,000
Fall Season Total		Naked		59,500	ton		
		Wrapped		65,400	ton		
		Bulk		19,400	ton		
	1992	9,580	15.06	144,300	ton	189.00	27,273,000
	1991	10,100	15.23	153,800	ton	440.00	67,672,000
Head Lettuce Totals	1992	17,980		286,500			55,002,000
	1991	18,310		274,400			94,204,000
Melons							
Cantaloupe	1992	27,000	9.04	244,000	ton	242.00	59,048,000
	1991	30,000*	7.60*	228,000*	ton	170.00	38,760,000*

VEGETABLE CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Melons (continued)							
Honeydew	1992	3,000	12.00	36,000	ton	\$190.00	\$ 6,840,000
	1991	3,400	14.74	50,100	ton	\$225.00	\$ 11,273,000
Mixed Melons ^c	1992	950	11.05	10,500	ton	224.00	2,352,000
	1991	870	8.04	7,000	ton	244.00	1,708,000
Watermelon	1992	520	23.85	12,400	ton	293.00	3,646,000
	1991	500	17.50	8,750	ton	170.00	1,488,000
Onions Dry							
Fresh	1992	4,500	19.20	86,400	ton	237.00	20,477,000
	1991	4,500	24.44	110,000	ton	260.00	28,600,000
Processed	1992	13,300	18.42	245,000	ton	76.00	18,620,000
	1991	12,600	17.75	223,600	ton	82.00	18,335,000
Oriental Vegetables ^d	1992	2,300	6.70	15,400	ton	384.00	5,914,000
	1991	2,260	11.33	25,600	ton	337.00	8,627,000
Squash ^e	1992	930	5.48	5,100	ton	307.00	1,566,000
	1991	1,200	11.59	13,900	ton	355.00	4,935,000
Sweet Corn	1992	1,900	11.32	21,500	ton	255.00	5,483,000
	1991	1,900	7.47	14,200	ton	287.00	4,075,000
Sweet Potatoes/ Yams	1992	1,300	8.00	10,400	ton	385.00	4,004,000
	1991	1,400	9.00	12,600	ton	430.00	5,418,000
Tomatoes Fresh							
Cherry	1992	1,540	9.03	13,900	ton	623.00	8,660,000
	1991	1,600	15.88	25,400	ton	525.00	13,335,000
Standard	1992	6,740	13.28	89,500	ton	393.00	35,174,000
	1991	6,600	14.00	92,400	ton	325.00	30,030,000

VEGETABLE CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Tomatoes	1992	87,000	35.21	3,063,000	ton	\$ 46.00	\$ 140,898,000
Processed	1991	107,000	30.78	3,293,000	ton	\$ 52.30	\$ 172,224,000
Other^f	1992	12,320					28,590,000
	1991	<u>14,870</u>					<u>26,307,000</u>
Total	1992	205,060					\$ 453,325,000
	1991	228,860*					\$ 524,538,000*

a Includes fresh and processed

b Includes globe, Japanese, and Chinese varieties; 1991 reflects only globe variety

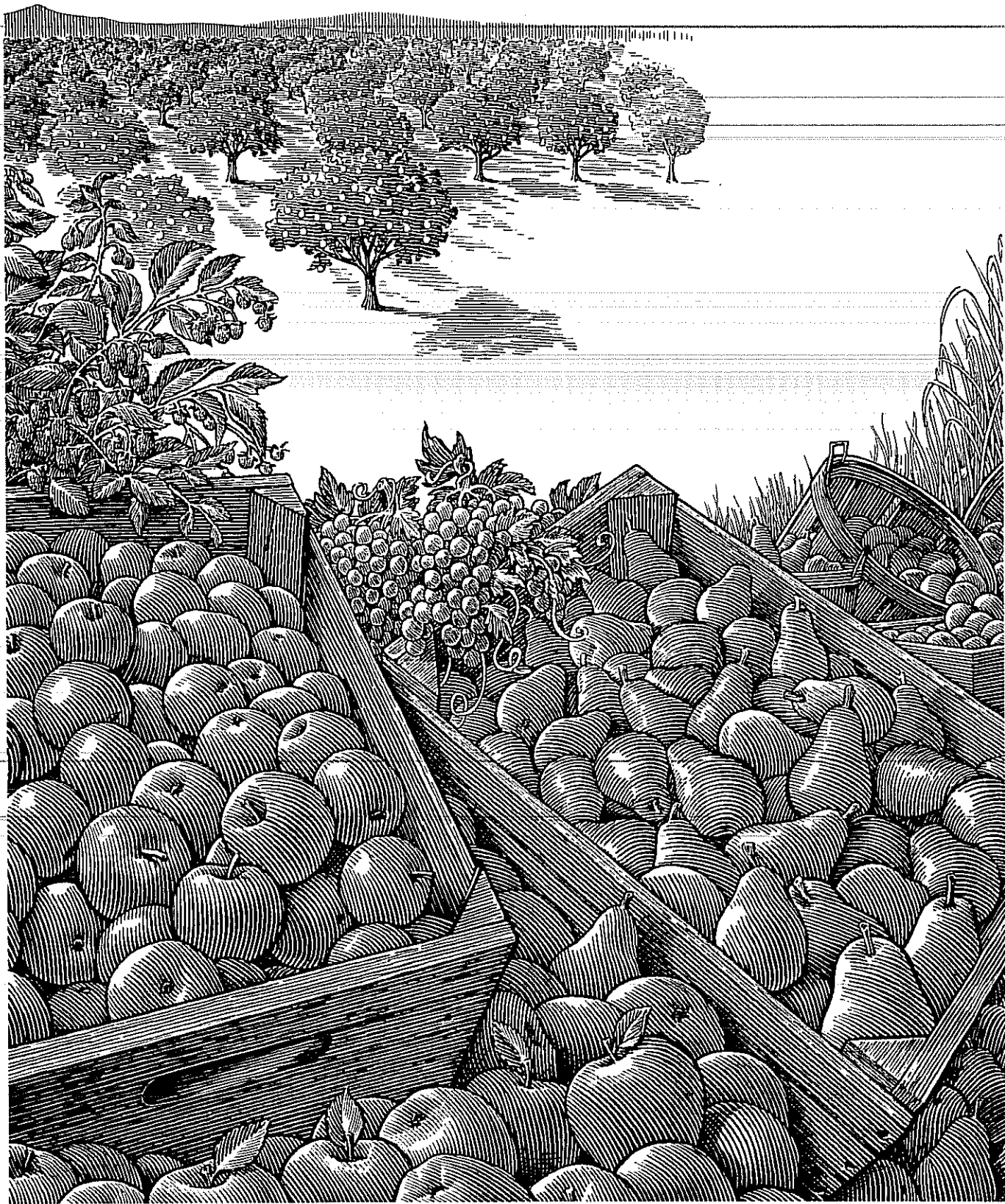
c Includes casaba, crenshaw, juan canary, Persian, santa claus, and sharlyn

d Includes bittermelon, bok choy, diakon, dunqua, gia choy, gia lon, gobo, lemon grass, lo bok, long bean, moqua, napa, opo, sinqua, sui choy, sugar peas, taro, and yu choy

e Includes soft and hard types

f Includes arugula, asparagus, basil, baby and large lima beans, fava beans, green beans, beets, cabbage, cauliflower, Swiss and red chard, cilantro, collards, taco corn, cornnuts, cucumbers, dill, endive, kale, kohlrabi, leaf lettuce, mint, mushrooms, mustard greens, okra, green onions, oregano, parsley, parsnips, peas, chili peppers, potatoes, pumpkins, radishes, rosemary, sage, tarragon, thyme, sunchokes, tomatillo, turnips, and turnip greens

* Revised



FRUIT AND NUT CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Almonds	1992	26,706	.82	21,900	ton	\$2,540.00	\$ 55,626,000
	1991	25,783	.76	19,600	ton	\$2,300.00	\$ 45,080,000
Almond Hulls	1992			38,500	ton	54.00	2,079,000
	1991			39,200	ton	57.00	2,234,000
Apricots	1992	578	7.13	4,120	ton	685.00	2,822,000
	1991	526	5.91	3,110	ton	1,250.00	3,888,000
Citrus							
Lemons	1992	930	.43				
	1991	1,009	7.82				
Fresh	1992			330	ton	576.00	190,000
	1991			1,290	ton	680.00	877,000
Processed	1992			70	ton	60.00	4,200
	1991			6,600	ton	45.00	297,000
Oranges							
Navel	1992	16,429	11.99				
	1991	16,056	4.00				
Fresh	1992			157,000	ton	395.00	62,015,000
	1991			23,600	ton	490.00	11,564,000
Processed	1992			40,000	ton	55.00	2,200,000
	1991			40,600	ton	24.00	974,000
Valencia	1992	4,174	16.51				
	1991	4,110	.09				
Fresh	1992			42,900	ton	320.00	13,728,000
	1991			13	ton	526.00	6,840
Processed	1992			26,000	ton	100.00	2,600,000
	1991			370	ton	34.00	12,600
Other ^a	1992	638	15.05				
	1991	621	3.22				
Fresh	1992			8,600	ton	460.00	3,956,000
	1991			580	ton	690.00	400,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Other ^a (continued)							
Processed	1992			1,000	ton	\$ 70.00	\$ 70,000
	1991			1,420	ton	\$ 32.00	\$ 45,400
Figs, dried	1992	1,600	.88	1,410	ton	1,335.00	1,882,000
	1991	1,680	1.00	1,680	ton	1,160.00	1,949,000
Grapes							
Raisin Varieties	1992	161,787	11.40				
	1991	162,000	9.84				
Canned	1992			12,600	ton	225.00	2,835,000
	1991			6,400	ton	220.00	1,408,000
Crushed	1992			463,000	ton	176.00	81,488,000
	1991			179,000	ton	147.00	26,313,000
Dried	1992			318,000	ton	925.00	294,150,000
	1991			289,000	ton	982.00	283,798,000
Fresh	1992			55,200	ton	680.00	37,536,000
	1991			61,200	ton	760.00	46,512,000
Juice	1992			9,300	ton	460.00	4,278,000
	1991			6,800	ton	445.00	3,026,000
Table Varieties	1992	8,370	10.08				
	1991	8,580	9.20				
Crushed	1992			29,200	ton	180.00	5,256,000
	1991			16,300	ton	144.00	2,347,000
Fresh	1992			55,200	ton	760.00	41,952,000
	1991			62,600	ton	850.00	53,210,000
Wine Varieties	1992	31,860	9.76				
	1991	32,900	9.26				
Crushed	1992			307,000	ton	212.00	65,084,000
	1991			301,000	ton	159.00	47,859,000
Juice	1992			4,000	ton	420.00	1,680,000
	1991			3,780	ton	406.00	1,535,000
Grapes Total	1992	202,017					534,259,000
	1991	203,480					466,008,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Kiwi	1992	308	6.98	2,150	ton	\$1,360.00	\$ 2,924,000
	1991	308	2.76	850	ton	\$1,580.00	\$ 1,343,000
Nectarines	1992	13,048	9.20	120,000	ton	580.00	69,600,000
	1991	12,985	8.16	106,000	ton	630.00	66,780,000
Olives, canned	1992	1,200	5.00	6,000	ton	638.00	3,828,000
	1991	1,320	2.00	2,640	ton	713.00	1,882,000
Peaches							
Clingstone	1992	1,432	14.39	20,600	ton	220.00	4,532,000
	1991	1,332	11.94	15,900	ton	225.00	3,578,000
Freestone	1992	12,062	10.45	126,000	ton	555.00	69,930,000
	1991	11,897	9.83	117,000	ton	580.00	67,860,000
Peaches Total	1992	13,494					74,462,000
	1991	13,229					71,438,000
Pears, Asian and European	1992	440	4.27	1,880	ton	648.00	1,218,000
	1991	318	4.31	1,370	ton	1,050.00	1,439,000
Pecans	1992	388	.85	330	ton	3,200.00	1,056,000
	1991	367	.73	268	ton	2,500.00	670,000
Persimmons	1992	230	6.26	1,440	ton	1,324.00	1,907,000
	1991	294	4.70	1,380	ton	1,256.00	1,733,000
Pistachios	1992	2,293	1.02	2,340	ton	2,420.00	5,663,000
	1991	1,955	.90	1,760	ton	2,960.00	5,210,000
Plums	1992	17,630	6.86	121,000	ton	460.00	55,660,000
	1991	17,487	6.52	114,000	ton	666.00	75,924,000
Pomegranates	1992	936	5.63	5,270	ton	766.00	4,037,000
	1991	947	4.18	3,960	ton	859.00	3,402,000
Prunes, dried	1992	1,357	4.00	5,430	ton	988.00	5,365,000
	1991	1,334	3.34	4,460	ton	880.00	3,925,000
Strawberries^b	1992	680	11.18	7,600	ton	615.00	4,674,000
	1991	650	13.66	8,880	ton	830.00	7,370,000
Walnuts	1992	3,055	1.67	5,100	ton	1,400.00	7,140,000
	1991	3,069	1.52	4,670	ton	1,115.00	5,207,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Other ^c	1992	1,910					\$ 18,659,000
	1991	<u>1,700</u>					<u>\$ 18,381,000</u>
Total	1992	310,041					\$937,624,200
	1991	309,228					\$ 798,039,840

a Includes mandarin/tangerines and tangelos

b Includes fresh and processed

c Includes apples, boysenberries, blackberries, cherries, fresh figs, substandard figs, olive oil, fresh olives, processed apricots, processed grapes, processed nectarines, processed peaches, processed plums, and quince



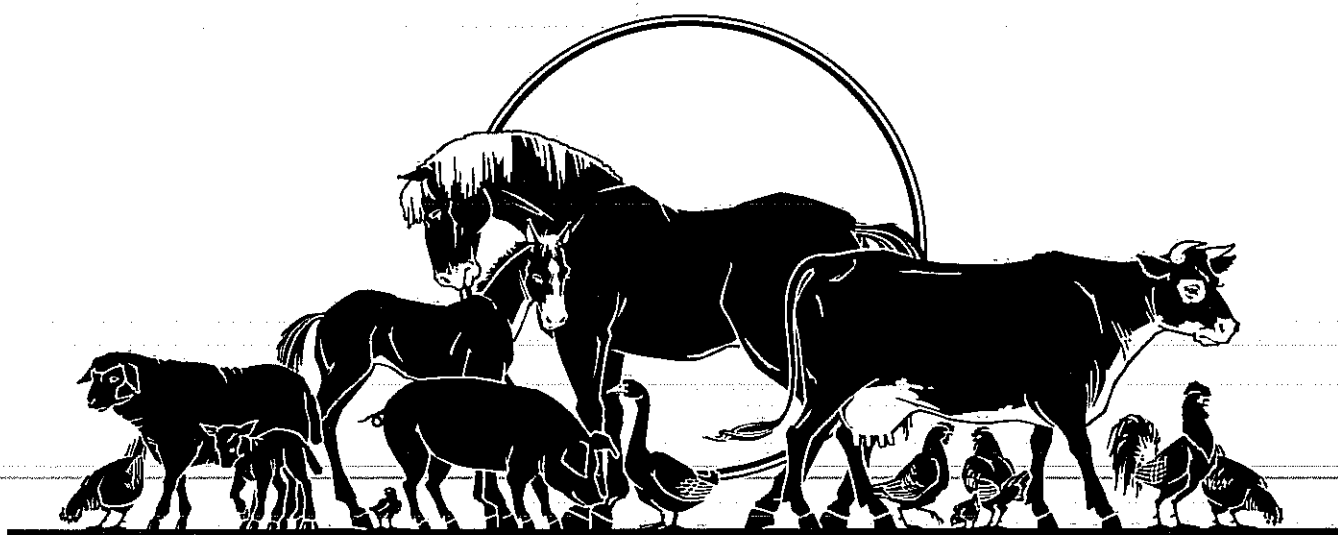
NURSERY PRODUCTS

ITEM	YEAR	ACRES	QUANTITY	UNIT	VALUE
Christmas Trees	1992	93	9,600	trees	\$ 172,000
	1991	129	12,800	trees	\$ 262,000
Herbaceous Ornamentals^a	1992	15	134,000	b	913,000
	1991	15	109,000	b	783,000
Ornamental Trees and Shrubs	1992	65	1,945,000	plants	5,672,000
	1991	65	2,226,000	plants	6,501,000
Other ^c	1992	306	53,136,000	plants	9,990,000
	1991	<u>220</u>	71,617,000	plants	<u>10,528,000</u>
Total	1992	479			\$16,747,000
	1991	429			\$18,074,000

a Includes cut flowers, cut greens, potted plants, bedding plants, and herbaceous perennials

b Includes flats, dozens, cans, and single plants

c Includes bareroot fruit & nut trees, grape rootings, and vegetable plants



LIVESTOCK AND POULTRY

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Cattle and Calves						
Beef						
Breeding Stock						
Common	1992	1,120		head	\$ 675.00	\$ 756,000
	1991	1,236		head	\$ 600.00	\$ 742,000
Registered	1992	280		head	1,400.00	392,000
	1991	309		head	1,250.00	386,000
Feeders	1992	141,000	282,000	cwt.	81.60	23,011,000
	1991	156,443	313,000	cwt.	88.30	27,638,000
Calves	1992	19,700	59,100	cwt.	97.00	5,733,000
	1991	21,680	65,000	cwt.	101.00	6,565,000
Slaughter Stock						
From Feed Lots	1992	194,000	912,000 ^a	cwt.	74.44	67,889,000
	1991	232,000*	1,091,000 ^{a*}	cwt.	74.26	81,018,000*
From Other Sources	1992	4,200	37,000	cwt.	53.60	1,983,000
	1991	4,635	40,800	cwt.	48.21	1,967,000
Dairy						
Breeding Stock	1992	8,580		head	1,300.00	11,154,000
	1991	8,336		head	1,250.00	10,420,000
Cull Stock	1992	20,400	265,000	cwt.	50.50	13,383,000
	1991	19,500	254,000	cwt.	46.50	11,811,000
Calves	1992	16,350	49,100	cwt.	98.33	4,828,000
	1991	15,626	46,900	cwt.	95.00	4,456,000
Hogs and Pigs						
Feeder Pigs and Slaughter Stock	1992	13,200	27,000	cwt.	47.30	1,277,000
	1991	11,100	22,600	cwt.	57.61	1,302,000

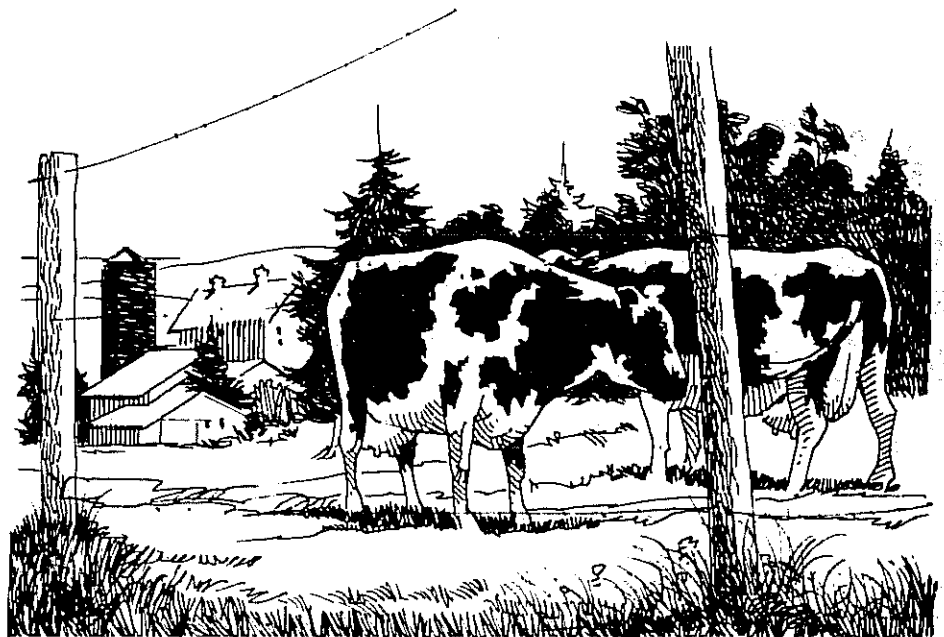
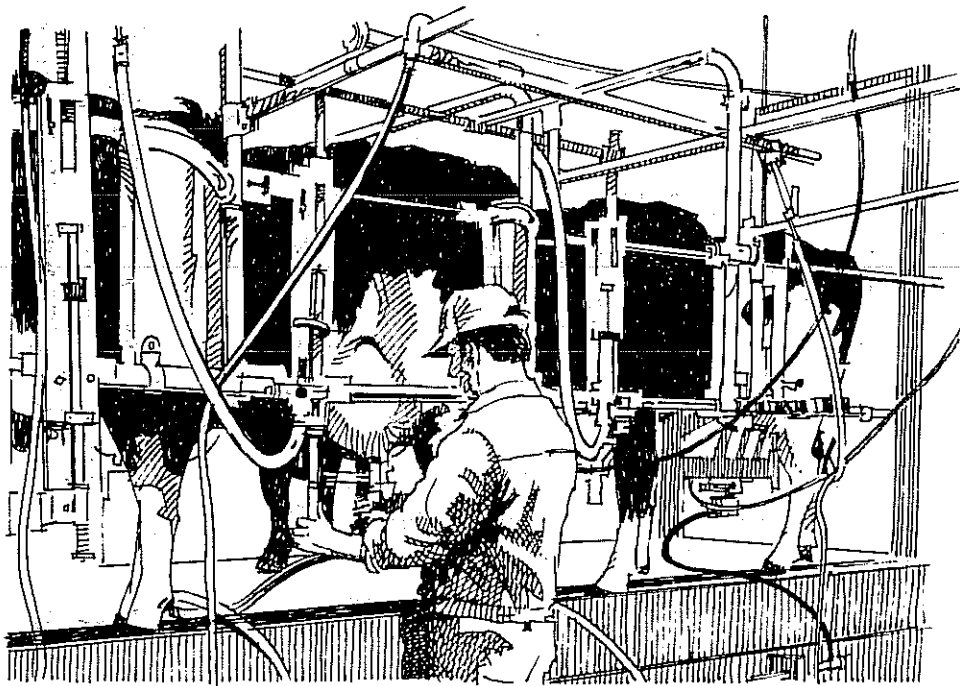
LIVESTOCK AND POULTRY (continued)

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVESTOCK		PER UNIT	TOTAL
Sheep and Lambs						
Slaughter Stock						
Lambs	1992	66,600	63,300	cwt.	\$69.00	\$ 4,368,000
	1991	66,600	63,200	cwt.	\$53.83	\$ 3,402,000
Sheep	1992	17,000	23,800	cwt.	30.00	714,000
	1991	17,000	23,800	cwt.	17.90	426,000
Turkeys	1992	6,912,000	146,400,000	lb.	.60	87,840,000
	1991	10,896,000	255,727,000	lb.	.56	143,207,000
Other ^b	1992					260,985,000
	1991					<u>212,421,000</u>
Total	1992					\$484,313,000
	1991					\$505,761,000*

a Net feedlot gain

b Includes chickens, fish, game birds, squab, turkey poults, old turkey breeder birds, cull milk goats, and kid goats

* Revised



LIVESTOCK AND POULTRY PRODUCTS

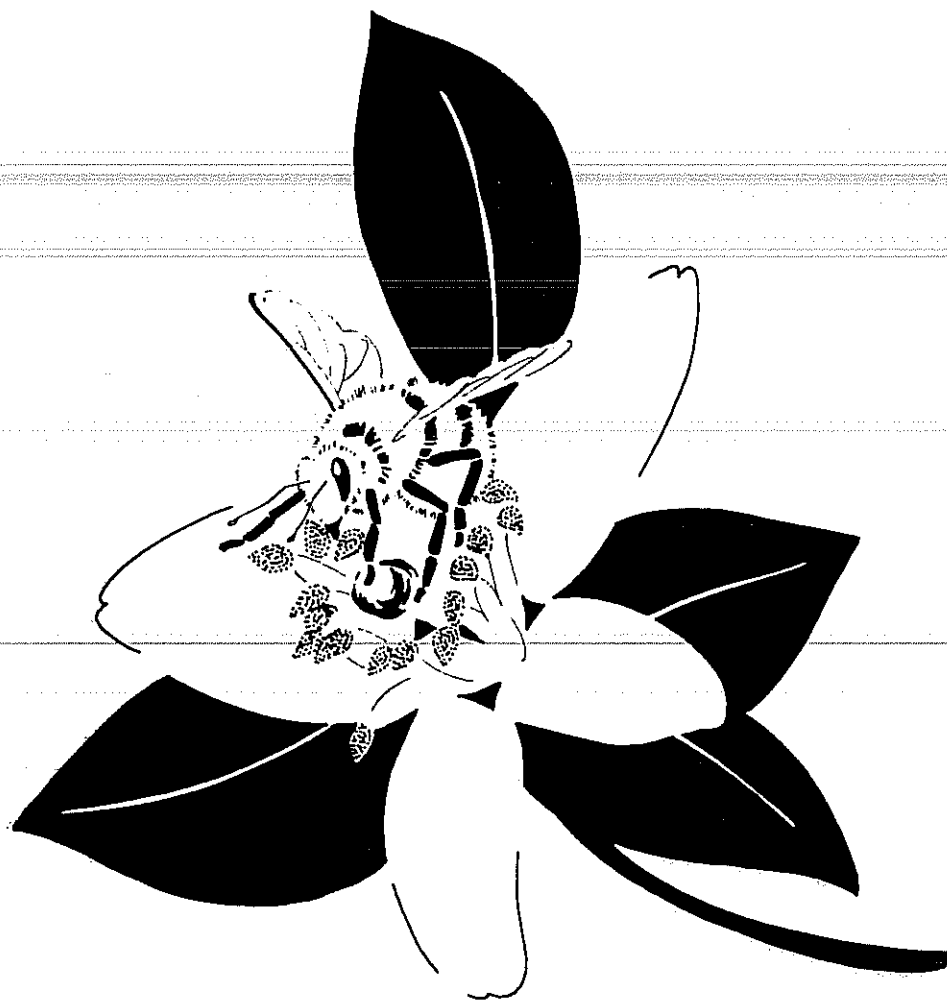
ITEM	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
Manure	1992	491,000	ton	\$ 6.10	\$ 2,995,000
	1991	434,000	ton	\$ 5.23	\$ 2,270,000
Milk					
Manufacturing	1992	61,000	cwt.	10.93	667,000
	1991	26,900	cwt.	10.04	270,000
Market ^a	1992	12,898,000	cwt.	11.42	147,295,000
	1991	12,796,000	cwt.	10.92	139,732,000
Wool	1992	600,000	lb.	.79	474,000
	1991	680,000	lb.	.56	381,000
Eggs					
Chicken & Turkey ^b	1992	1,284,000	dozen	4.87	6,253,000
	1991	1,659,000	dozen	5.35	8,876,000
Total	1992				\$157,684,000
	1991				\$151,529,000

a Includes cow and goat milk; 1991 reflects only cow milk

b Includes market eggs and hatching eggs

JANUARY 1 INVENTORIES OF LIVESTOCK AND POULTRY (In Number of Head)

ITEM	January 1, 1993	January 1, 1992
Cattle and Calves		
All	389,000	339,000
Dairy and Beef Cows	99,000	96,000
Cattle on Feed	74,000	76,000
Stock Sheep and Lambs	77,000	85,000
Goats	5,500	5,000
Hogs and Pigs	8,400	7,000
Poultry	3,002,000	6,247,000



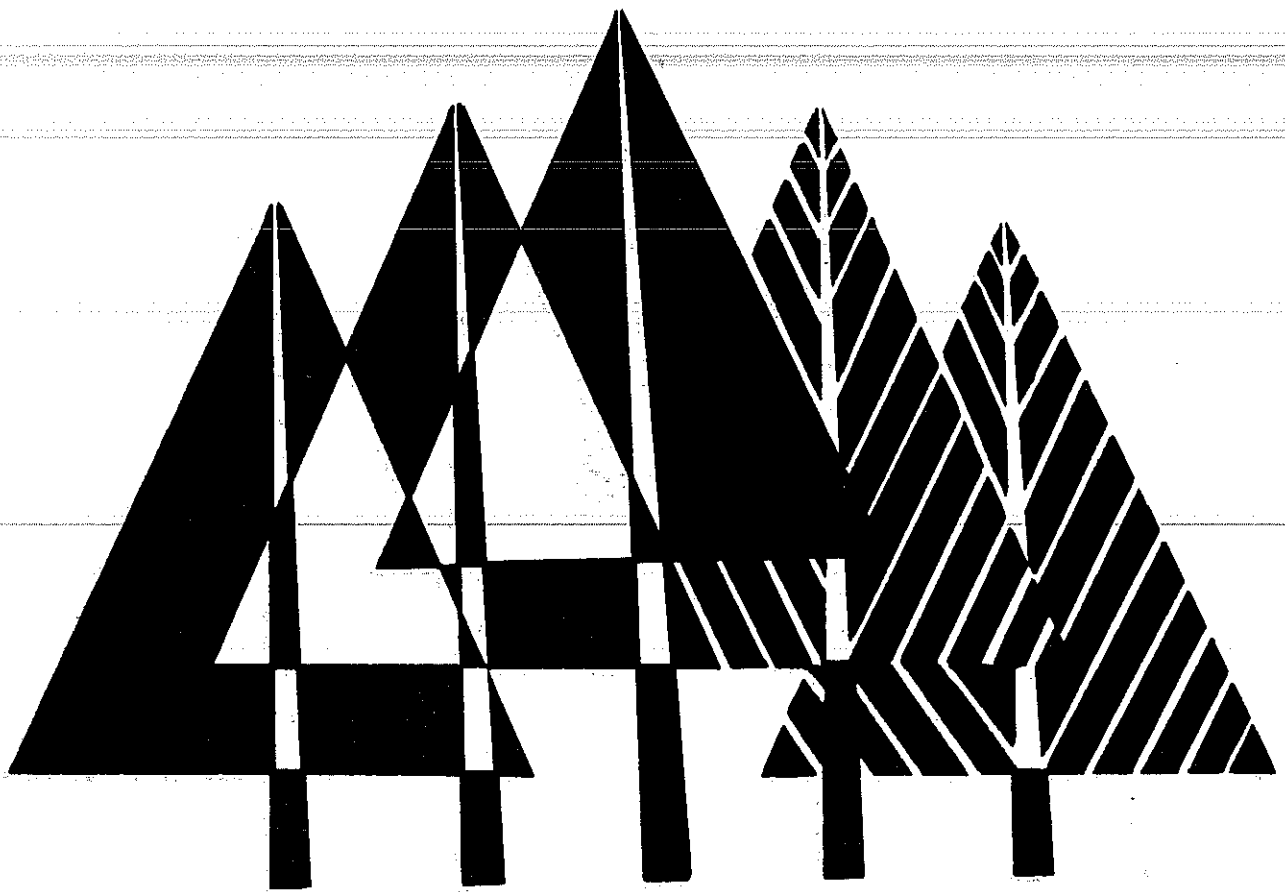
APIARY PRODUCTS AND POLLINATION SERVICES

ITEM	YEAR	PRODUCTION TOTAL	UNIT	VALUE	
				PER UNIT	TOTAL
Apiary Products ^a					
Honey	1992	1,167,000	lb.	\$.53	\$ 619,000
	1991	1,386,000	lb.	\$.53	\$ 735,000
Beeswax	1992	106,700	lb.	1.17	125,000
	1991	73,800	lb.	1.09	80,400
Pollination ^b					
Alfalfa Seed	1992	71,800	colony	20.29	1,457,000
	1991	81,800	colony	19.30	1,579,000
Tree Fruit ^c	1992	79,000	colony	31.81	2,513,000
	1991	94,600	colony	31.20	2,952,000
Cantaloupe	1992	39,200	colony	15.03	589,000
	1991	39,600	colony	17.20	<u>681,000</u>
Total	1992				\$ 5,303,000
	1991				\$ 6,027,400

a Reflects bee colonies registered in Fresno County by commercial and semi-commercial beekeepers:
1992 - 37,040 colonies; 1991 - 34,476 colonies

b Reflects value of pollination by all bee colonies located in Fresno County for pollination services during 1992. Estimated total colonies: 107,800

c Almonds, cherries and plums



INDUSTRIAL CROPS

CROP	YEAR	PRODUCTION	UNIT (a)	VALUE (b)
Timber	1992	48,400,000	board feet	\$ 5,400,000
	1991	59,609,000	board feet	\$ 8,253,000
Fire Wood	1992	4,240	ords	21,200
	1991	4,080	ords	<u>20,400</u>
Total	1992			\$ 5,421,200
	1991			\$ 8,273,400

a Board feet is the quantity of timber cut and sealed

b Value of timber immediately prior to cutting

**GROWTH IN FRESNO COUNTY AGRICULTURE AS INDICATED BY GROSS PRODUCTION
VALUE OF AGRICULTURAL PRODUCTS OVER A TWENTY- ONE YEAR SPAN**

1972 -	559,307,000	1983 -	1,727,319,500
1973 -	828,682,000*	1984 -	1,921,020,840*
1974 -	967,350,000	1985 -	2,054,060,400*
1975 -	1,026,356,000*	1986 -	2,125,721,200*
1976 -	1,178,373,000*	1987 -	2,264,044,000*
1977 -	1,110,424,200*	1988 -	2,444,732,600*
1978 -	1,241,033,100*	1989 -	2,607,648,800*
1979 -	1,719,235,500	1990 -	2,949,484,000*
1980 -	2,002,448,900*	1991 -	2,552,305,040*
1981 -	1,905,289,240*	1992 -	2,640,614,400
1982 -	1,855,733,500		

SIX YEAR COMPARISON OF GROSS PRODUCTION VALUE IN FRESNO COUNTY

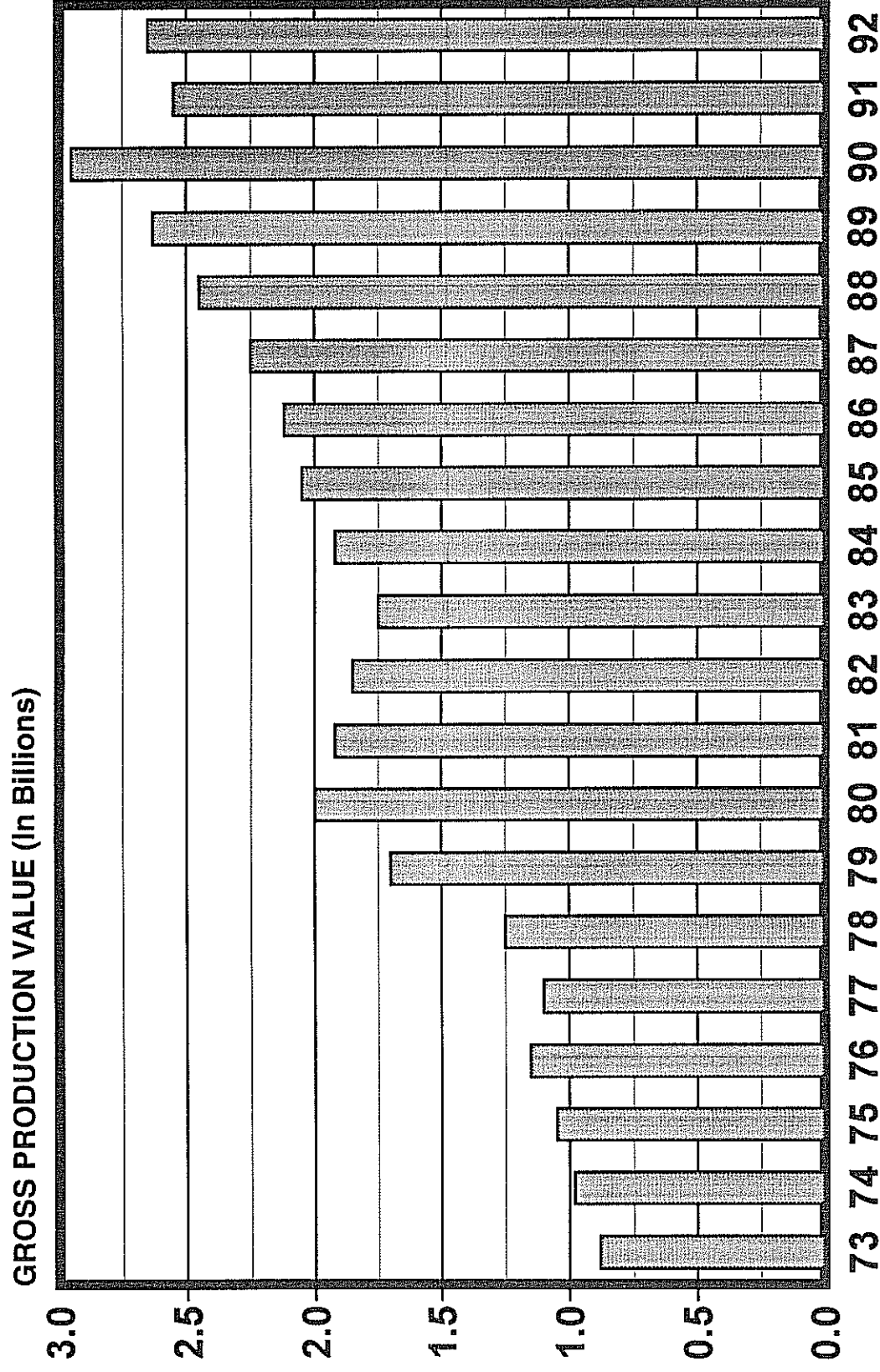
	1972	1982	1989	1990	1991	1992
Field Crops	\$173,727,000	\$510,565,000	\$554,487,000*	\$597,457,000	\$500,333,000	\$549,162,000
Seed Crops	13,214,000	40,420,000	52,401,000	53,078,000	39,729,400	31,035,000
Vegetable Crops	59,725,000	268,132,000	513,743,000	605,544,000	524,538,000*	453,325,000
Fruit & Nut Crops	193,032,000	650,412,500	855,915,000	940,919,000	798,039,840	937,624,200
Nursery Products	1,181,000	5,360,000	13,670,000	18,194,000	18,074,000	16,747,000
Livestock & Poultry	117,620,000	368,995,000	605,137,000*	715,355,000*	657,290,000*	641,997,000
Apiary	808,000	6,539,000	6,189,800	6,844,000	6,027,400	5,303,000
Industrial Crops	+	5,310,000	6,106,000	12,093,000	8,273,400	5,421,200
TOTAL	\$559,307,000	\$1,855,733,500	\$2,607,648,800*	\$2,949,484,000*	\$2,552,305,040*	\$2,640,614,400

*Revised

+Not reported

GROWTH OF FRESNO COUNTY AGRICULTURE

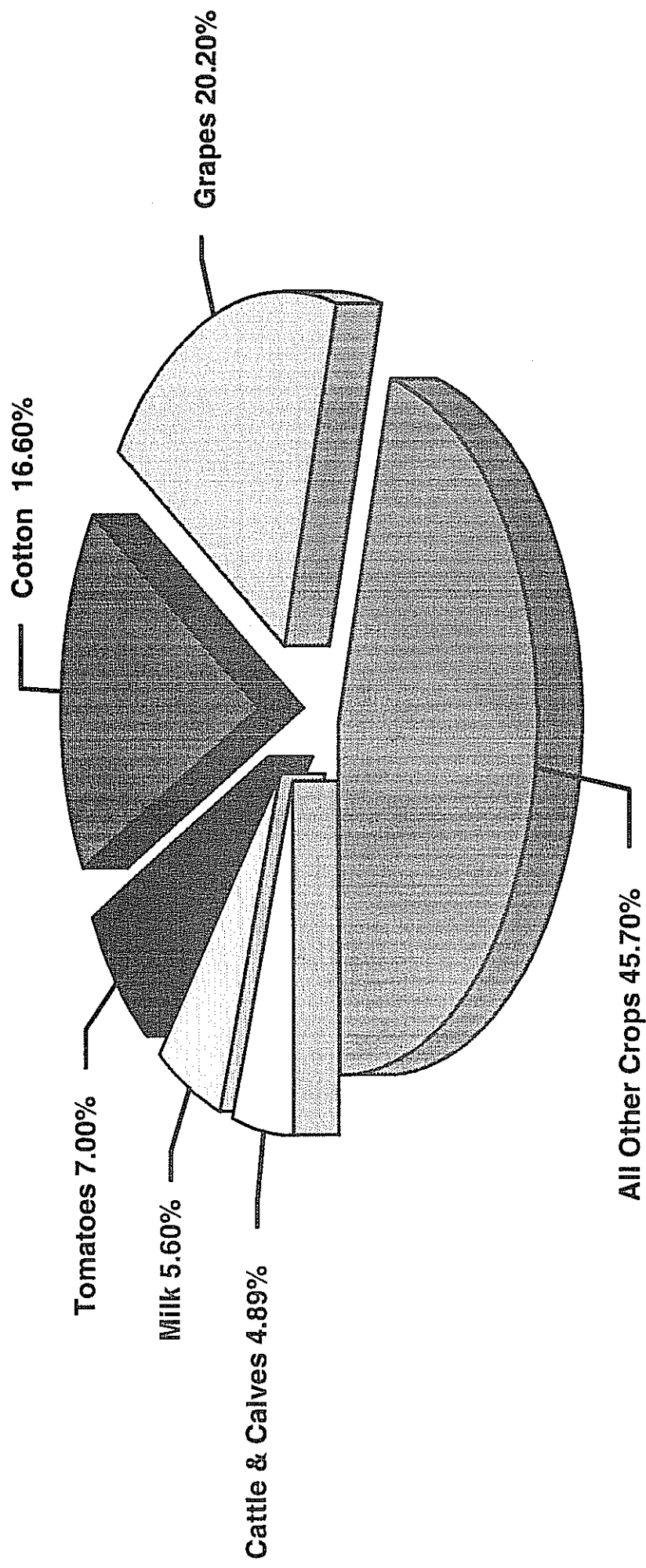
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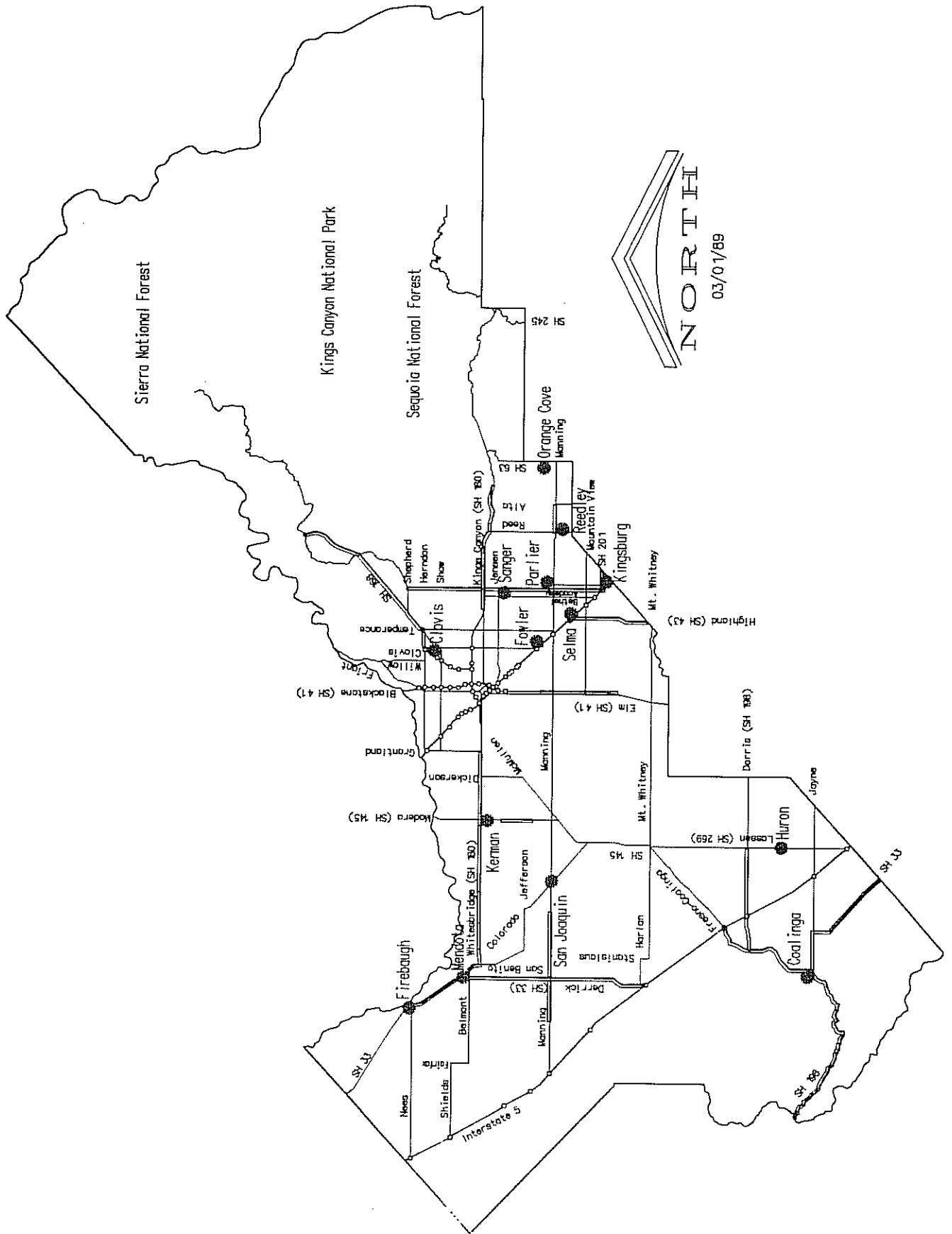


1973 through 1992

FRESNO COUNTY'S 5 LEADING CROPS RELATIVE GROSS VALUE

Total Value \$2,640,614,400





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

The Honorable Board of Supervisors
County of Fresno

A. Vernon Conrad, Chairman
Sharon Levy
Stan Oken
Deran Koligian
Doug Vagim

William H. Randolph
County Administrative Officer

I am pleased to submit the 1993 Fresno County Agricultural Crop and Livestock Report. This annual compilation presents statistical data pertaining to the acreage, yield, and gross value of Fresno County agricultural products.

The total gross production value of Fresno County agricultural commodities in 1993 was \$3,022,566,100.00. This represents a 14.68 percent increase from the 1992 gross production values.

It must be emphasized that the values presented in this report reflect gross values only, and do not in any manner reflect net income or loss to producers.

Agriculture continues as the major industry in Fresno County and is a driving force in the county's economy. Every dollar received by Fresno County producers results in the economic extension benefit of three and one-half dollars to the total economy of the county.

I sincerely appreciate the professional and dedicated work performed by Deputy Agricultural Commissioner/Sealer Dennis C. Plann; Supervising Agricultural/Standards Specialist Bruce L. Clayton; Agricultural/Standards Specialists Scotti E. Abell and Thomas M. Schackmann; as well as the rest of my staff at the Department of Agriculture for the preparation of this report.

My thanks to the many individuals, related agencies and members of the agricultural industry for their contributions in the compilation of this report.

Best Regards,



Cosmo C. Insalaco
Agricultural Commissioner/Sealer

*"The greatest service
which can be rendered any country
is to add a useful plant to its culture."
Thomas Jefferson*

*"The cultivation of the earth is the most
important labor of man.
Unstable is the future of the country
which has lost its taste for agriculture,
If there is one lesson of history that is
unmistakable,
it is that national strength lies very near
the soil."
Daniel Webster*

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FRESNO COUNTY'S 10 LEADING CROPS

Crop	1993 Rank	1993 Dollar Value	1992 Rank	1983 Rank	1973 Rank
GRAPES	1	528,607,000	1	1	1
COTTON	2	460,795,000	2	2	2
TOMATOES	3	233,793,000	3	4	8
MILK	4	150,761,000	4	5	5
CATTLE & CALVES	5	129,678,000	5	3	3
HEAD LETTUCE	6	111,950,000	13	10	25
ALMONDS	7	92,640,000	11	8	13
NECTARINES	8	81,106,000	9	11	10
ORANGES	9	79,701,000	7	10	11
PLUMS	10	69,882,000	12	7	9

1993 Retrospect Highlights

1993 marked the end of California's six-year drought. In early March statewide precipitation was at 150 percent of normal and the water content of the Sierra snowpack was at 175 percent. On April 1, 1993, the California Department of Water Resources reported that Millerton Reservoir was at 88 percent capacity and the San Luis Reservoir had reached 91 percent capacity. The April through July runoff of the Kings River was 156 percent, and by the end of the year statewide reservoir storage was at 108 percent of normal. Unfortunately, some of the growers who received water from the Central Valley Project discovered the drought was not over for them when their water allotment was set at 50 percent of normal.

This year's permanent planting acreages reflected changes resulting from a seven-month survey of county growers. The National Association of Departments of Agriculture and the Fresno County Department of Agriculture cooperated in the first major survey of permanent plantings done in this county in over ten years. Listed below are some of the major acreage changes that will appear in this report:

CROP	1993	1992
Almonds	36,503	27,706
Apples	2,484	1,491
Apricots	829	578
Cherries	122	108
Figs	3,435	1,600
Grapes		
Raisins	166,054	161,787
Table	9,981	8,370
Wine	32,283	31,860
Nectarines	12,396	13,048
Peaches		
Cling	1,730	1,432
Freestone	11,634	12,062
Pecans	279	388
Pistachios	2,858	2,293
Plums	16,065	17,630

FIELD CROPS: Total gross returns for all field crops increased by \$57,896,000 to \$607,058,000, and the harvested acreage was up by 27,700 acres. Cotton, the county's second most valuable crop, showed an increase of \$22,376,000 to \$459,780,000. Upland cotton plantings increased by 39,000 acres, while pima cotton was down by 37.27 percent to 33,500 acres. A 21.77 percent increase in dry bean acreage, and a slight increase in the yield per acre, overcame a \$24.00 reduction in the price, to result in a \$10,780,000 total gross value. Alfalfa hay plantings were down by 7,000 acres, but an increase in price and yield increased the crop value by \$21,502,000. The value of the sugar beet crop increased by \$5,098,000, to \$18,093,000. The total gross returns for grain corn decreased by \$466,000, while the value of corn silage increased by 91.09 percent to \$11,832,000.

SEED CROPS: Total gross returns for seed crops increased by \$3,542,000, while the harvested acreage decreased slightly. The total returns for certified alfalfa fell by 22.24 percent or \$3,808,000, and the gross returns for non-certified alfalfa were up by 42.34 percent to \$4,680,000. The gross returns for certified wheat seed nearly doubled from the 1992 value of \$5,387,000 to \$10,080,000.

VEGETABLE CROPS: The total gross returns for all vegetable crops increased by 34.50 percent to \$609,714,000, and harvested acreage was up by 15.14 percent. The total gross returns for head lettuce were up 103.54 percent, from \$55,002,000 to \$111,950,000. This increase in returns for lettuce was due to a greater price per ton and yield per acre during the spring harvest season. Broccoli plantings increased by 3,700 acres, and the total gross returns increased by 27.99 percent to \$12,441,000. While the planted acreage of oriental vegetables was down, total gross returns increased by 52.14 percent to \$8,998,000. The value of garlic increased by 55.12 percent, from \$33,812,000 to \$52,448,000. Tomatoes, number three on the county's top ten list of commodities, were up by 26.56 percent in total value to \$233,793,000. Tomato plantings increased by 11,320 acres.

FRUIT AND NUT CROPS: For the first time, total gross returns for fruit and nut crops exceeded one billion dollars. This in part was due to the acreage increases resulting from the county's 1993 permanent plantings survey. Almond returns were up by 60.54 percent from \$57,705,000 to \$92,640,000, reflecting a 36.68 percent increase in acreage and higher return per ton. Lemon production, still suffering the effects of the December 1990 freeze, increased to 4.56 tons per acre. Dried fig acreage, as a result of the permanent plantings survey, increased from 1,600 acres to 3,319 acres. For the sixth year in a row, grapes remained the number one crop in the county, with a total value of \$528,607,000. The yield per acre for raisin and table grape varieties was down, while wine grape yields increased by 1.52 tons per acre. Nectarines moved from ninth to eighth on the top ten list, while a decrease of \$5,311,000 gross value dropped peaches out of the top ten. The value of persimmons increased by 35.55 percent, as a result of increases in acreage and production yields. The value of the orange crop decreased by \$842,000.

NURSERY PRODUCTS: The gross returns from sales of nursery products increased by \$4,802,000 to \$21,549,000. Christmas tree production was up by 137.50 percent, with total gross returns of \$410,000, even though acreage was down. The returns for other nursery crops, which includes bareroot fruit and nut trees, grape rootings and vegetable plants, increased by \$5,488,000 to \$15,478,000. The value of ornamental trees and shrubs was down by 19.01 percent to \$4,594,000.

LIVESTOCK AND POULTRY: Total net returns increased by \$68,176,000, or 14.08 percent to \$552,489,000. Cattle and calves were again fifth on the county's top ten list, with a value of \$129,678,000, up \$549,000 from last year. The total gross value for turkeys was down by \$26,471,000, falling from the top ten list for the first time in nine years. Hog production was up 4,200 head resulting in an increase of total gross returns of \$511,000. The number of sheep and lambs sold were down by 7,900 head. This is the first year ostriches appear in this report; breeding stock sold was valued at \$2,062,000.

LIVESTOCK AND POULTRY PRODUCTS: The total gross returns from livestock and poultry products increased by \$14,717,000 to total \$172,464,000. Manure production increased by 348.26 percent to 2,201,000 tons. Milk remained fourth on the top ten list, with a gross value of \$150,761,000, up by \$2,799,000 from last year. Wool prices dropped \$0.32 per pound and gross returns fell by \$247,000.

APIARY PRODUCTS AND POLLINATION SERVICES: Gross returns increased by 14.12 percent to \$6,052,000. Production of honey nearly doubled from 1,167,000 pounds to 2,278,000 pounds. Total value of pollination services, which includes alfalfa seed, tree fruit and cantaloupe acreage, increased by \$196,000.

INDUSTRIAL CROPS: Timber returns were up by \$2,735,000 to \$8,135,000. This was a result of a 77.10 percent increase in the number of board feet harvested. Firewood production was down by 510 cords, and the total gross returns decreased from \$21,200 to \$18,700.



FIELD CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Barley	1993	16,000	2.40	38,400	ton	\$ 105.00	\$ 4,032,000
	1992	14,000	2.04	28,600	ton	\$ 111.00	\$ 3,175,000
Beans, dry ^a	1993	17,900	.98	17,500	ton	616.00	10,780,000
	1992	14,700	.93	13,700	ton	640.00	8,768,000
Corn							
Grain	1993	3,900	4.46	17,400	ton	103.00	1,792,000
	1992	4,300	4.49	19,300	ton	117.00	2,258,000
Silage	1993	18,000	27.39	493,000	ton	24.00 ^b	11,832,000
	1992	15,000	22.93	344,000	ton	18.00 ^b	6,192,000
Cotton, Upland							
Lint	1993	338,000	1,491 ^c	1,008,000 ^d	bale	.72 ^c	365,783,000
	1992	299,000	1,584 ^c	947,000 ^d	bale	.65 ^c	310,237,000
Seed	1993			360,000	ton	162.00	58,320,000
	1992			350,000	ton	140.00	49,000,000
Cotton, Pima							
Lint	1993	33,500	1,113 ^c	74,600 ^d	bale	.83 ^c	31,207,000
	1992	53,400	1,451 ^c	155,000 ^d	bale	.90 ^c	70,308,000
Seed	1993			29,600	ton	151.00	4,470,000
	1992			62,100	ton	122.00	7,576,000
Hay							
Alfalfa ^f	1993	66,000	8.61	568,000	ton	118.00	67,024,000
	1992	73,000	7.70	562,000	ton	81.00	45,522,000
Other ^g	1993	10,200	3.40	34,700	ton	76.00	2,637,000
	1992	10,500	3.00	31,500	ton	62.00	1,953,000
Pasture and Range							
Field	1993	17,300			acre	17.98	311,000
Stubble ^h	1992	13,000			acre	14.00	182,000

FIELD CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Pasture and Range (continued)							
Irrigated Pasture	1993	40,000			acre	\$ 110.00	\$ 4,400,000
	1992	40,000			acre	\$ 110.00	\$ 4,400,000
Grazing Range	1993	850,000			acre	7.00	5,950,000
	1992	850,000			acre	7.00	5,950,000
Rice	1993	7,200	3.71	26,700	ton	180.00	4,806,000
	1992	5,700	3.11	17,700	ton	200.00	3,540,000
Safflower	1993	15,700	1.08	17,000	ton	293.00	4,981,000
	1992	15,000	1.21	18,200	ton	308.00	5,606,000
Sugar Beets	1993	17,000	29.00	493,000	ton	36.70	18,093,000
	1992	13,600	26.25	357,000	ton	36.40	12,995,000
Wheat	1993	28,000	3.06	85,700	ton	106.00	9,084,000
	1992	23,000	3.29	75,700	ton	125.00	9,463,000
Other ⁱ	1993	4,270					1,556,000
	1992	6,770					2,037,000
Total	1993	1,465,670					\$607,058,000
	1992	1,437,970					\$549,162,000

a Includes black, blackeyes, cranberry, garbanzo, pinto, red kidney, and small white beans

b Field price

c Pounds of lint per acre

d 500 pounds lint per bale

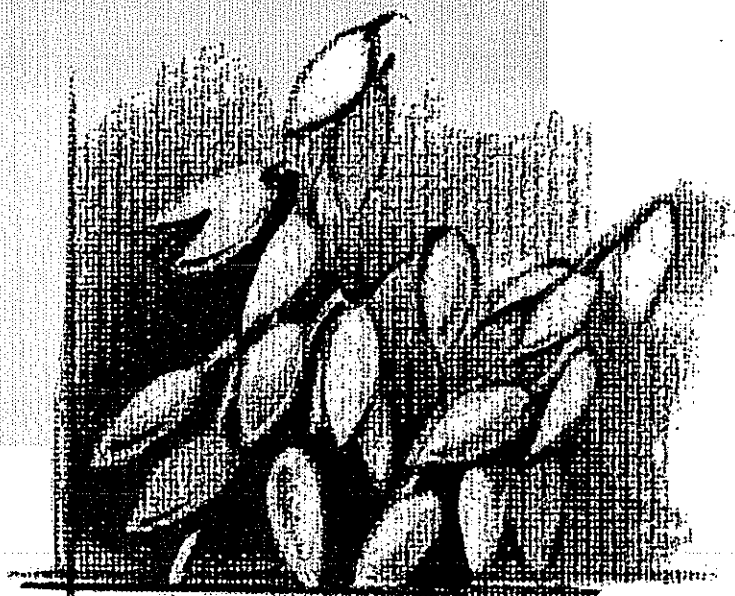
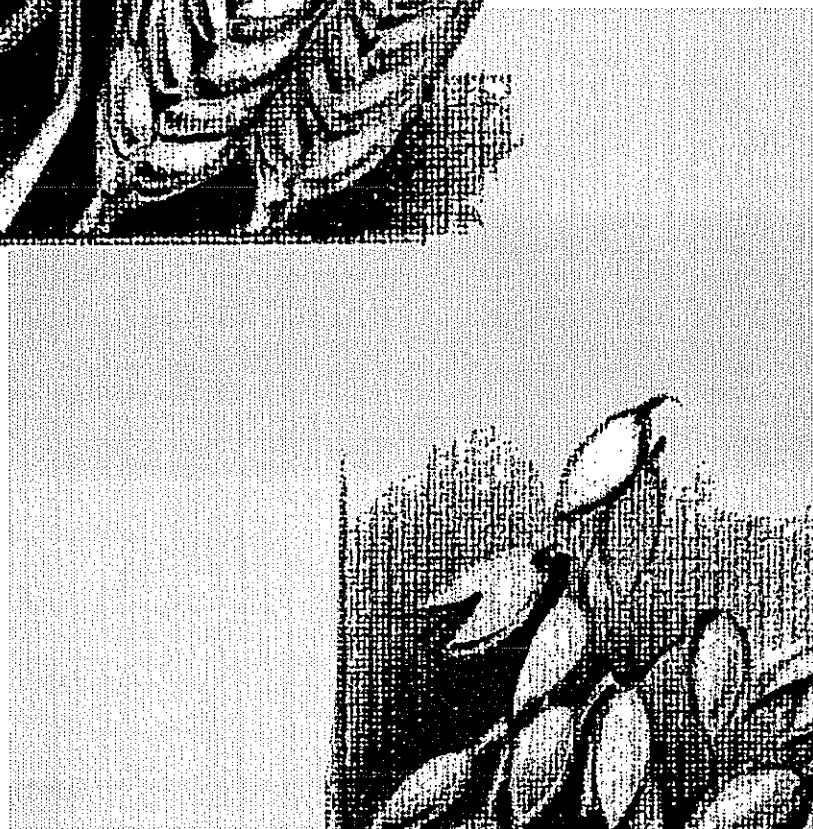
e Price per pound, 504 pounds gross weight per bale

f Includes bales, cubes, and green chop

g Includes hay from barley, oats, seed alfalfa, and wheat

h Not included in total acreage figures; includes acreage from alfalfa hay and seed alfalfa, barley, beans, broccoli, lettuce, melons, tomatoes, and wheat

i Includes oats, oat silage, organic cotton, straw, sudan, and winter forage



SEED CROPS

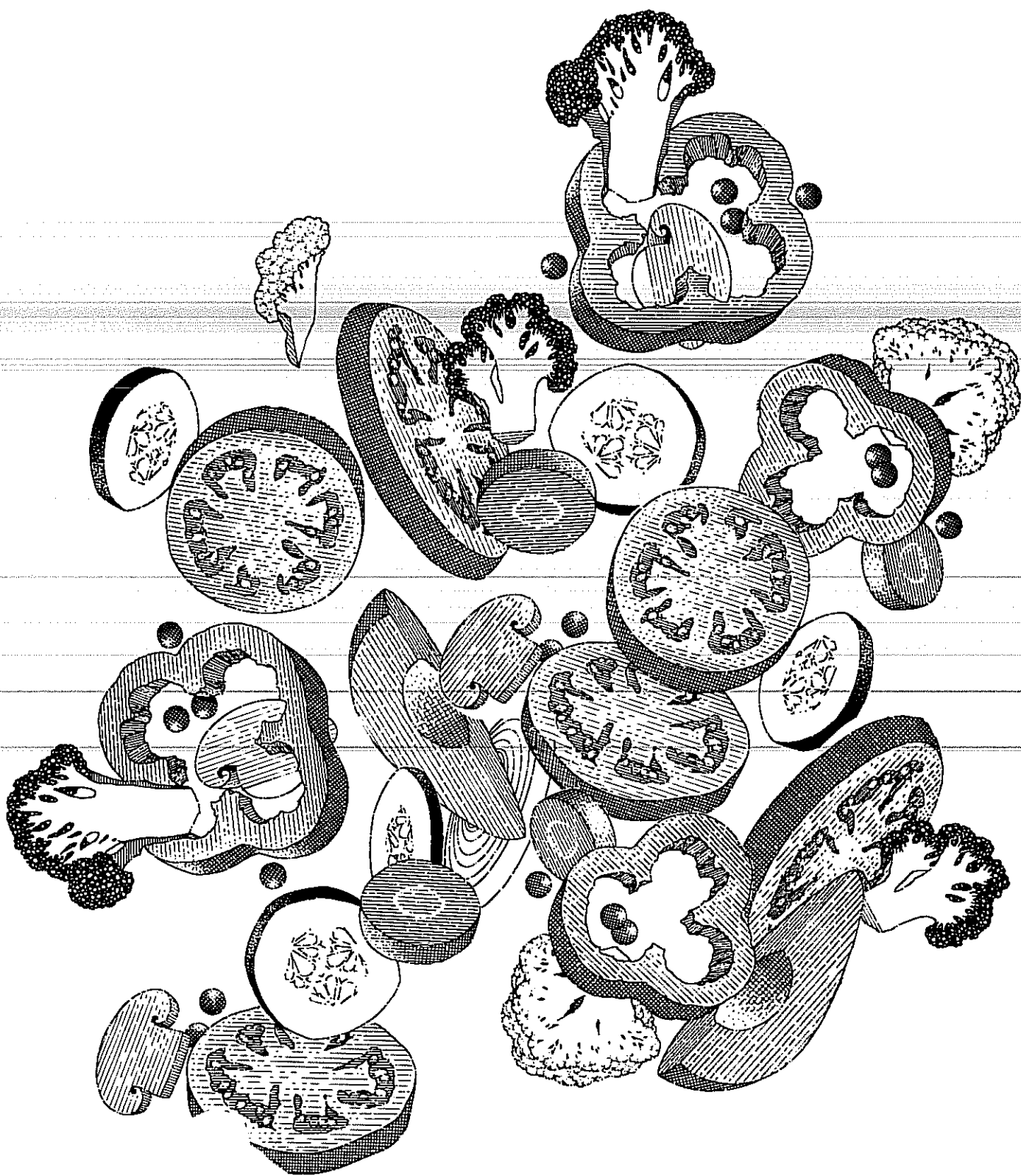
CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Alfalfa	1993	13,000	800	10,400,000	lb.	\$1.28	\$13,312,000
Certified	1992	20,000	800	16,000,000	lb.	\$1.07	\$17,120,000
Non-Certified	1993	7,800	600	4,680,000	lb.	1.00	4,680,000
	1992	6,400	685	4,384,000	lb.	.75	3,288,000
Alfalfa Seed	1993	20,800		15,080,000	lb.		17,992,000
Total	1992	26,400		20,384,000	lb.		20,408,000
Barley	1993	550	5,300	2,915,000	lb.	.08	233,000
Certified	1992	1,700	5,000	8,500,000	lb.	.05	425,000
Non-Certified	1993	900	5,050	4,545,000	lb.	.06	273,000
	1992	1,400	4,000	5,600,000	lb.	.04	224,000
Cotton^a	1993	6,200		9,226,000	lb.	.11	1,015,000
	1992	6,700		13,788,000	lb.	.09	1,298,000 ^b
Vegetable^c	1993	2,000					4,029,000
	1992	1,640					2,073,000
Wheat	1993	21,000	6,000	126,000,000	lb.	.08	10,080,000
Certified	1992	13,500	5,700	76,950,000	lb.	.07	5,387,000
Non-Certified	1993	1,500	5,300	7,950,000	lb.	.07	557,000
	1992	1,100	5,000	5,500,000	lb.	.06	330,000
Other^d	1993	819					398,000
	1992	<u>2,420</u>					<u>890,000</u>
Total	1993	47,569					\$34,577,000
	1992	48,120					\$31,035,000

^a Included in field crop acreage

^b Includes \$30 per acre approval on 1,904 acres

^c Cantaloupe, eggplant, lettuce, onion, and tomato

^d Certified blackeye beans, certified clover, certified garbanzo beans, and non-certified oats



VEGETABLE CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Bell Peppers ^a	1993	1,500	15.00	22,500	ton	\$272.00	\$ 6,120,000
	1992	2,000	14.90	29,800	ton	\$300.00	\$ 8,940,000
Broccoli ^a	1993	6,800	4.85	33,000	ton	377.00	12,441,000
	1992	3,100	5.81	18,000	ton	540.00	9,720,000
Carrots ^a	1993	610	15.00	9,150	ton	106.00	970,000
	1992	410	21.71	8,900	ton	168.00	1,495,000
Eggplant ^b	1993	770	13.38	10,300	ton	434.00	4,470,000
	1992	770	8.96	6,900	ton	447.00	3,084,000
Garlic ^a	1993	18,400	9.57	176,000	ton	298.00	52,448,000
	1992	17,500	9.03	158,000	ton	214.00	33,812,000
Head Lettuce							
Spring Season Total		Naked		64,800	ton		
		Wrapped		66,600	ton		
		Bulk		27,700	ton		-
	1993	7,900	20.14	159,100	ton	500.00	79,550,000
	1992	8,400	16.93	142,200	ton	195.00	27,729,000
Fall Season Total		Naked		65,000	ton		
		Wrapped		71,500	ton		
		Bulk		25,500	ton		
	1993	10,300	15.73	162,000	ton	200.00	32,400,000
	1992	9,580	15.06	144,300	ton	189.00	27,273,000
Head Lettuce Totals	1993	18,200		321,100			111,950,000
	1992	17,980		286,500			55,002,000
Melons							
Cantaloupe	1993	37,000	7.76	287,000	ton	210.00	60,270,000
	1992	27,000	9.04	244,000	ton	242.00	59,048,000

VEGETABLE CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Melons (continued)							
Honeydew	1993	4,200	12.31	51,700	ton	\$266.00	\$ 13,752,000
	1992	3,000	12.00	36,000	ton	\$190.00	\$ 6,840,000
Mixed Melons ^c	1993	1,750	9.70	17,000	ton	267.00	4,539,000
	1992	950	11.05	10,500	ton	224.00	2,352,000
Watermelon	1993	550	27.27	15,000	ton	100.00	1,500,000
	1992	520	23.85	12,400	ton	293.00	3,646,000
Onions Dry							
Fresh	1993	6,300	23.81	150,000	ton	210.00	31,500,000
	1992	4,500	19.20	86,400	ton	237.00	20,477,000
Processed	1993	15,700	18.47	290,000	ton	80.00	23,200,000
	1992	13,300	18.42	245,000	ton	76.00	18,620,000
Oriental Vegetables ^d	1993	2,000	11.00	22,000	ton	409.00	8,998,000
	1992	2,300	6.70	15,400	ton	384.00	5,914,000
Squash ^c	1993	940	10.85	10,200	ton	355.00	3,621,000
	1992	930	5.48	5,100	ton	307.00	1,566,000
Sweet Corn	1993	2,300	10.43	24,000	ton	239.00	5,736,000
	1992	1,900	11.32	21,500	ton	255.00	5,483,000
Sweet Potatoes/ Yams	1993	1,320	8.03	10,600	ton	448.00	4,749,000
	1992	1,300	8.00	10,400	ton	385.00	4,004,000
Tomatoes Fresh							
Cherry	1993	1,000	21.90	21,900	ton	527.00	11,541,000
	1992	1,540	9.03	13,900	ton	623.00	8,660,000
Standard	1993	9,600	16.15	155,000	ton	392.00	60,760,000
	1992	6,740	13.28	89,500	ton	393.00	35,174,000

VEGETABLE CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Tomatoes	1993	96,000	35.79	3,436,000	ton	\$ 47.00	\$161,492,000
Processed	1992	87,000	35.21	3,063,000	ton	\$ 46.00	\$140,898,000
Other^f	1993	11,165					29,657,000
	1992	12,320					28,590,000
Total	1993	236,105					\$609,714,000
	1992	205,060					\$453,325,000

a Includes fresh and processed

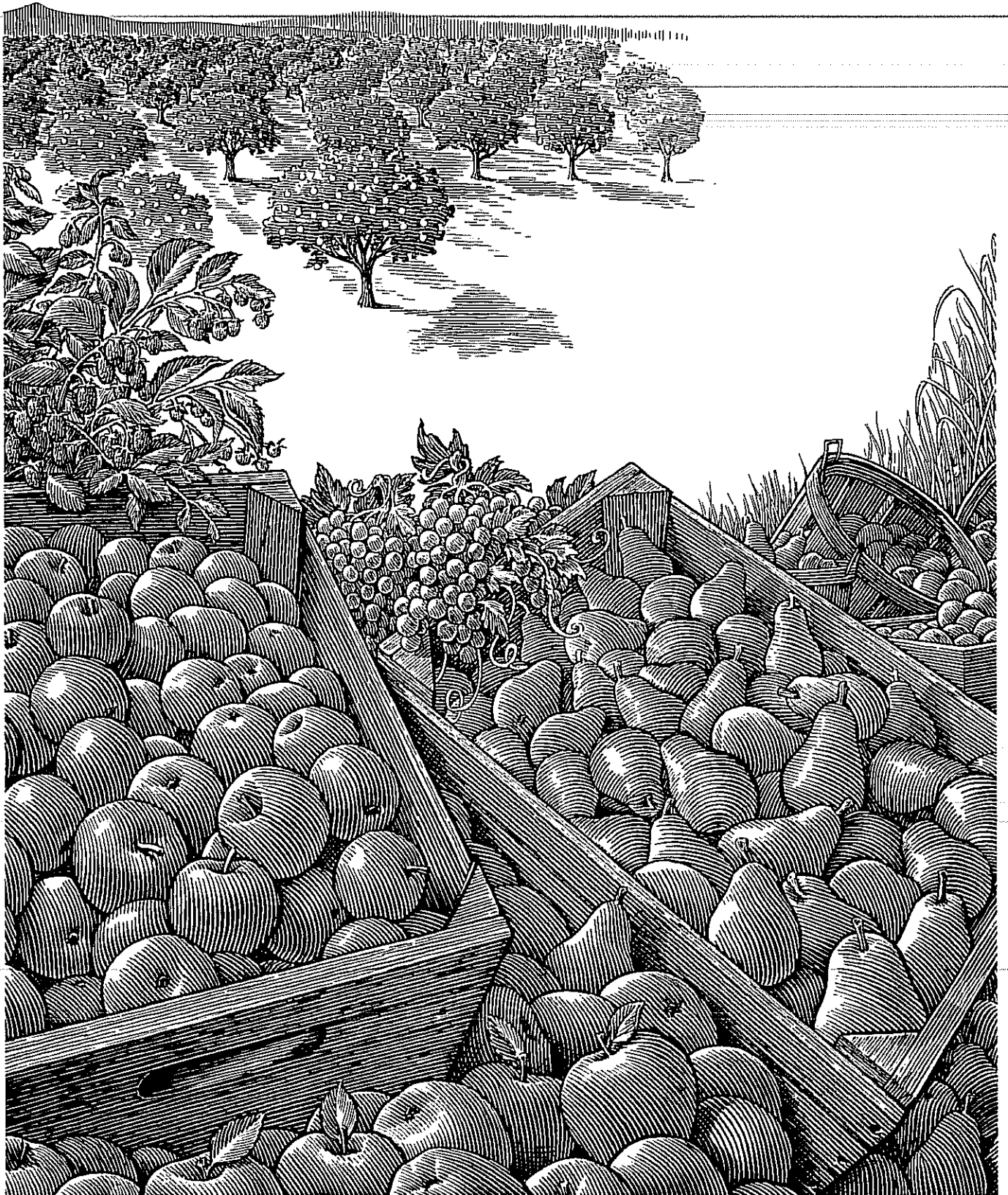
b Includes Chinese, globe, Italian and Japanese varieties

c Includes casaba, crenshaw, juan canary, Persian, santa claus, and sharlyn

d Includes bittermelon, bok choy, diakon, dunqua, gia choy, gialon, gobo, lemon grass, lo bok, long bean, moqua, napa, opo, sinqua, sugar peas, taro, and yu choy

e Includes soft and hard types

f Includes asparagus, basil, baby and large lima beans, fava beans, green beans, beets, cabbage, cauliflower, celery, Swiss and red chard, cilantro, collards, cornnuts, cucumbers, dill, endive, kale, kohlrabi, leeks, leaf and Romaine lettuce, mushrooms, mustard greens, okra, green onions, organic black and lima beans, parsley, parsnips, peas, chili peppers, potatoes, pumpkins, radishes, spinach, sunchokes, tomatillo, and turnips



FRUIT AND NUT CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Almonds	1993	36,503	.65	23,700	ton	\$3,840.00	\$ 91,008,000
	1992	26,706	.82	21,900	ton	\$2,540.00	\$ 55,626,000
Almond Hulls	1993			27,200	ton	60.00	1,632,000
	1992			38,500	ton	54.00	2,079,000
Apples	1993	2,484	10.51	26,100	ton	664.00	17,330,000
	1992 ^a						
Apricots	1993	829	5.86	4,860	ton	948.00	4,607,000
	1992	578	7.13	4,120	ton	685.00	2,822,000
Citrus							
Lemons	1993	991	4.56				
	1992	930	.43				
Fresh	1993			2,690	ton	527.00	1,418,000
	1992			330	ton	576.00	190,000
Processed	1993			1,830	ton	40.00	73,200
	1992			70	ton	60.00	4,200
Oranges							
Navel	1993	16,885	13.38				
	1992	16,429	11.99				
Fresh	1993			166,000	ton	345.00	57,270,000
	1992			157,000	ton	395.00	62,015,000
Processed	1993			60,000	ton	17.50	1,050,000
	1992			40,000	ton	55.00	2,200,000
Valencia	1993	4,742	12.86				
	1992	4,174	16.51				
Fresh	1993			47,000	ton	443.00	20,821,000
	1992			42,900	ton	320.00	13,728,000
Processed	1993			14,000	ton	40.00	560,000
	1992			26,000	ton	100.00	2,600,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Citrus, other ^b	1993	600	9.19				
	1992	638	15.05				
Fresh	1993			4,300	ton	\$ 644.00	\$ 2,769,000
	1992			8,600	ton	\$ 460.00	\$ 3,956,000
Processed	1993			1,200	ton	26.00	31,200
	1992			1,000	ton	70.00	70,000
Figs ^c , dried	1993	3,319	1.20	3,980	ton	1,250.00	4,975,000
	1992	1,600	.88	1,410	ton	1,335.00	1,882,000
Grapes							
Raisin Varieties	1993	166,054	10.58				
	1992	161,787	11.19*				
Canned	1993			16,100	ton	227.00	3,655,000
	1992			12,600	ton	225.00	2,835,000
Crushed	1993			259,000	ton	157.00	40,663,000
	1992			463,000	ton	176.00	81,488,000
Dried	1993			323,000	ton	928.00	299,744,000
	1992			310,000*	ton	932.00*	288,920,000*
Fresh	1993			40,800	ton	770.00	31,416,000
	1992			55,200	ton	680.00	37,536,000
Juice	1993			7,200	ton	520.00	3,744,000
	1992			9,300	ton	460.00	4,278,000
Table Varieties	1993	9,891	9.97				
	1992	8,370	10.08				
Crushed	1993			20,500	ton	106.00	2,173,000
	1992			29,200	ton	180.00	5,256,000
Fresh	1993			78,100	ton	970.00	75,757,000
	1992			55,200	ton	760.00	41,952,000
Wine Varieties	1993	32,283	11.28				
	1992	31,860	9.76				
Crushed	1993			361,000	ton	193.00	69,673,000
	1992			307,000	ton	212.00	65,084,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Juice	1993			3,300	ton	\$ 540.00	\$ 1,782,000
	1992			4,000	ton	\$ 420.00	\$ 1,680,000
Grapes Total	1993	208,228					528,607,000
	1992	202,017					529,029,000*
Kiwi	1993	377	4.32	1,630	ton	1,730.00	2,820,000
	1992	308	6.98	2,150	ton	1,360.00	2,924,000
Nectarines	1993	12,396	8.63	107,000	ton	758.00	81,106,000
	1992	13,048	9.20	120,000	ton	580.00	69,600,000
Olives, canned	1993	1,127	4.61	5,200	ton	493.00	2,564,000
	1992	1,200	5.00	6,000	ton	638.00	3,828,000
Peaches							
Clings	1993	1,730	16.01	27,700	ton	224.00	6,205,000
	1992	1,432	14.39	20,600	ton	220.00	4,532,000
Freestone	1993	11,634	8.44	98,200	ton	641.00	62,946,000
	1992	12,062	10.45	126,000	ton	555.00	69,930,000
Peaches Total	1993	13,364					69,151,000
	1992	13,494					74,462,000
Pears, Asian and European	1993	577	7.23	4,170	ton	711.00	2,965,000
	1992	440	4.27	1,880	ton	648.00	1,218,000
Pecans	1993	279	1.10	307	ton	1,801.00	553,000
	1992	388	.85	330	ton	3,200.00	1,056,000
Persimmons	1993	313	11.50	3,600	ton	718.00	2,585,000
	1992	230	6.26	1,440	ton	1,324.00	1,907,000
Pistachios	1993	2,858	1.50	4,290	ton	2,860.00	12,269,000
	1992	2,293	1.02	2,340	ton	2,420.00	5,663,000
Plums	1993	16,065	5.26	84,500	ton	827.00	69,882,000
	1992	17,630	6.86	121,000	ton	460.00	55,660,000
Pomegranates	1993	929	6.19	5,750	ton	766.00	4,405,000
	1992	936	5.63	5,270	ton	766.00	4,037,000
Prunes, dried	1993	1,429	4.31	6,160	ton	1,135.00	6,992,000
	1992	1,357	4.00	5,430	ton	988.00	5,365,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Strawberries ^d	1993	620	12.77	7,920	ton	\$ 622.00	\$ 4,926,000
	1992	680	11.18	7,600	ton	\$ 615.00	\$ 4,674,000
Walnuts	1993	2,502	2.21	5,530	ton	1,518.00	8,395,000
	1992	3,055	1.67	5,100	ton	1,400.00	7,140,000
Other ^e	1993	591					9,745,000
	1992	1,910					18,659,000
Total	1993	328,008					\$1,010,509,400
	1992	310,041					\$ 932,394,200*

a Not previously reported separately

b Includes mandarin/tangerines and tangelos

c 116 acres of fresh figs are included in other fruits and nut crops

d Includes fresh and processed

e Includes avocados, boysenberries, blackberries, cherries, fresh figs, substandard figs, olive oil, fresh olives, ollalliberries, processed apricots, processed apples, plumcots, processed grape leaves, processed nectarines, processed peaches, and quince

* Revised



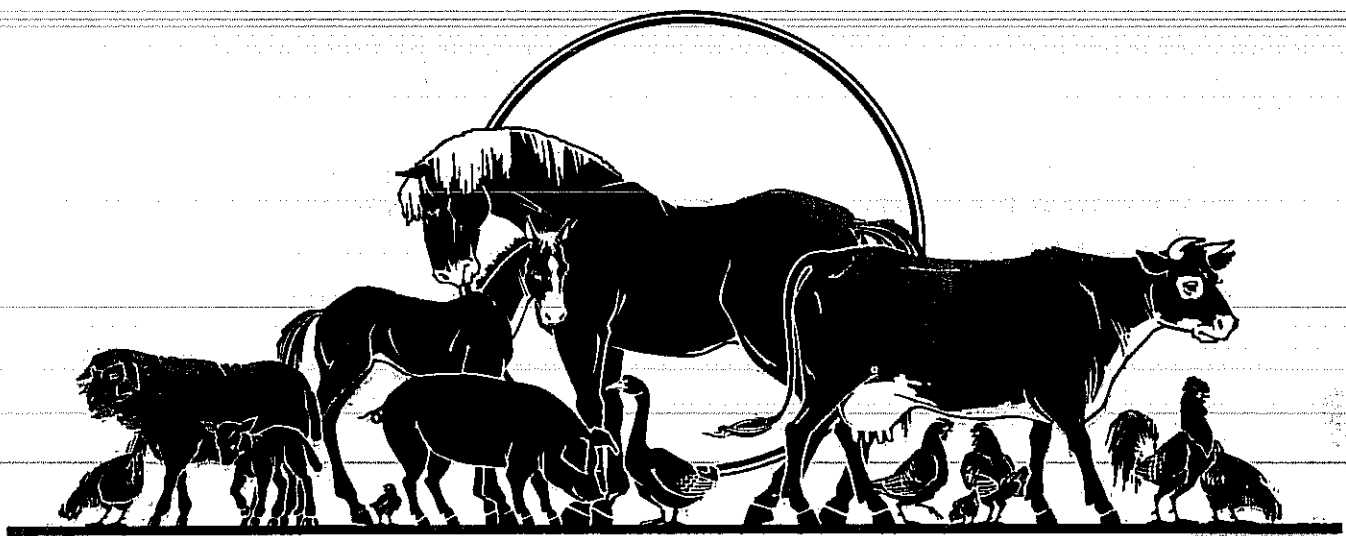
NURSERY PRODUCTS

ITEM	YEAR	ACRES	QUANTITY	UNIT	VALUE
Christmas Trees	1993	79	22,800	trees	\$ 410,000
	1992	93	9,600	trees	\$ 172,000
Herbaceous Ornamentals ^a	1993	15	1,049,000	b	1,067,000
	1992	15	134,000	b	913,000
Ornamental Trees and Shrubs	1993	48	748,000	plants	4,594,000
	1992	65	1,945,000	plants	5,672,000
Other ^c	1993	533	46,275,000	plants	15,478,000
	1992	306	53,136,000	plants	9,990,000
Total	1993	675			\$21,549,000
	1992	479			\$16,747,000

a Includes cut flowers, cut greens, potted plants, bedding plants, and herbaceous perennials

b Includes flats, dozens, cans, and single plants

c Includes bareroot fruit & nut trees, grape rootings, and vegetable plants



LIVESTOCK AND POULTRY

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Cattle and Calves						
Beef						
Breeding Stock						
Common	1993	1,160		head	\$ 688.00	\$ 798,000
	1992	1,120		head	\$ 675.00	\$ 756,000
Registered	1993	290		head	1,428.00	414,000
	1992	280		head	1,400.00	392,000
Feeders	1993	180,000	360,000	cwt.	85.30	30,708,000
	1992	141,000	282,000	cwt.	81.60	23,011,000
Calves	1993	20,300	61,000	cwt.	99.51	6,070,000
	1992	19,700	59,100	cwt.	97.00	5,733,000
Slaughter Stock						
From Feed Lots	1993	167,000	785,000 ^a	cwt.	75.29	59,103,000
	1992	194,000	912,000 ^a	cwt.	74.44	67,889,000
From Other Sources	1993	4,350	38,300	cwt.	53.81	2,061,000
	1992	4,200	37,000	cwt.	53.60	1,983,000
Dairy						
Breeding Stock	1993	9,000		head	1,300.00	11,700,000
	1992	8,580		head	1,300.00	11,154,000
Cull Stock	1993	21,000	273,000	cwt.	50.80	13,868,000
	1992	20,400	265,000	cwt.	50.50	13,383,000
Calves	1993	16,800	50,400	cwt.	98.33	4,956,000
	1992	16,350	49,100	cwt.	98.33	4,828,000
Hogs and Pigs						
Feeder Pigs and Slaughter Stock	1993	17,400	35,400	cwt.	50.51	1,788,000
	1992	13,200	27,000	cwt.	47.30	1,277,000

LIVESTOCK AND POULTRY (continued)

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Sheep and Lambs						
Slaughter Stock						
Lambs	1993	60,300	57,300	cwt.	\$72.18	\$ 4,136,000
	1992	66,600	63,300	cwt.	\$69.00	\$ 4,368,000
Sheep	1993	15,400	21,600	cwt.	33.00	713,000
	1992	17,000	23,800	cwt.	30.00	714,000
Turkeys	1993	4,750,000	100,605,000	lb.	.61	61,369,000
	1992	6,912,000	146,400,000	lb.	.60	87,840,000
Ostriches	1993	716				2,062,000
Breeding stock	1992 ^b					
Other ^c	1993					352,743,000
	1992					<u>260,985,000</u>
Total	1993					\$552,489,000
	1992					\$484,313,000

^a Net feedlot gain

^b Not previously reported

^c Includes chickens, fish, game birds, squab, turkey poults, old turkey breeder birds, cull milk goats, and kid goats

LIVESTOCK AND POULTRY PRODUCTS

VALUE

ITEM	YEAR	PRODUCTION	UNIT	PER UNIT	TOTAL
Manure	1993	2,201,000	ton	\$ 6.88	\$ 15,143,000
	1992	491,000	ton	\$ 6.10	\$ 2,995,000
Milk					
Manufacturing	1993	35,900	cwt.	11.06	397,000
	1992	61,000	cwt.	10.93	667,000
Market ^a	1993	13,342,000	cwt.	11.27	150,364,000
	1992	12,898,000	cwt.	11.42	147,295,000
Wool	1993	616,000	lb.	.47	290,000
	1992	680,000*	lb.	.79	537,000*
Eggs					
Chicken & Turkey ^b	1993	1,372,000	dozen	4.57	6,270,000
	1992	1,284,000	dozen	4.87	6,253,000
Total	1993				\$172,464,000
	1992				\$157,747,000 *

^a Includes cow and goat milk

^b Includes market eggs and hatching eggs

* Revised

JANUARY 1 INVENTORIES OF LIVESTOCK AND POULTRY (In Number of Head)

ITEM	January 1, 1994	January 1, 1993
Cattle and Calves		
All	387,000	389,000
Dairy and Beef Cows	103,500	99,000
Cattle on Feed	84,400	74,000
Stock Sheep and Lambs	65,500	77,000
Goats	6,000	5,500
Hogs and Pigs	12,000	8,400
Poultry	2,357,000	3,002,000

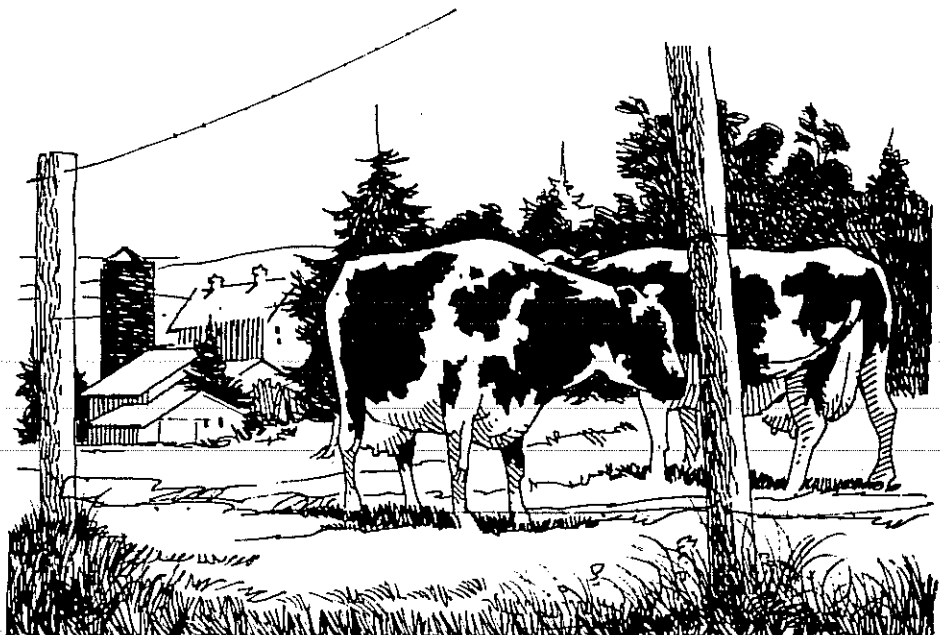
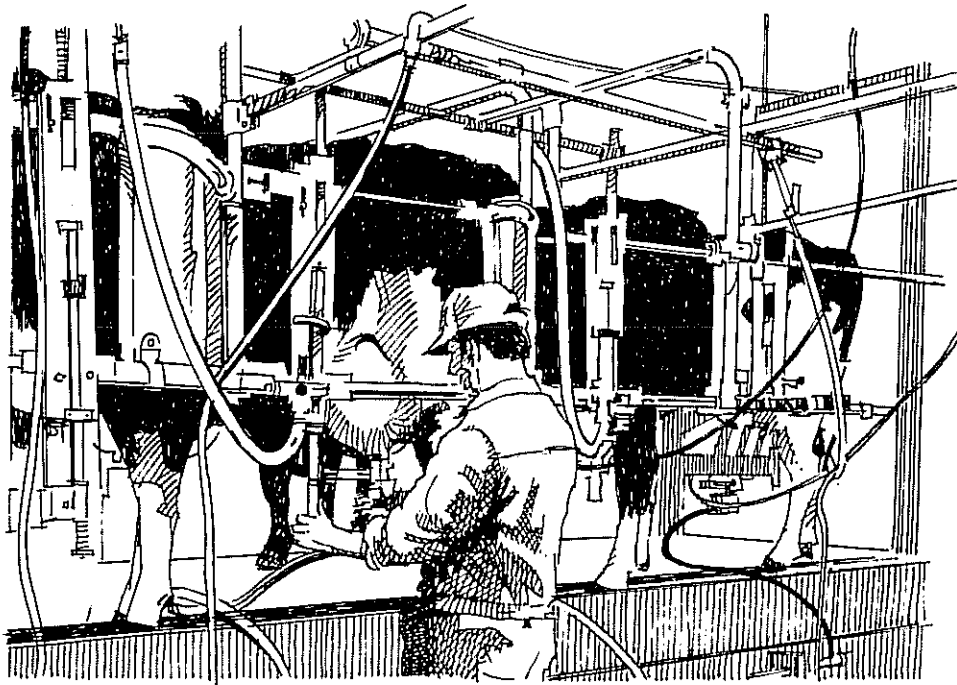
APIARY PRODUCTS AND POLLINATION SERVICES

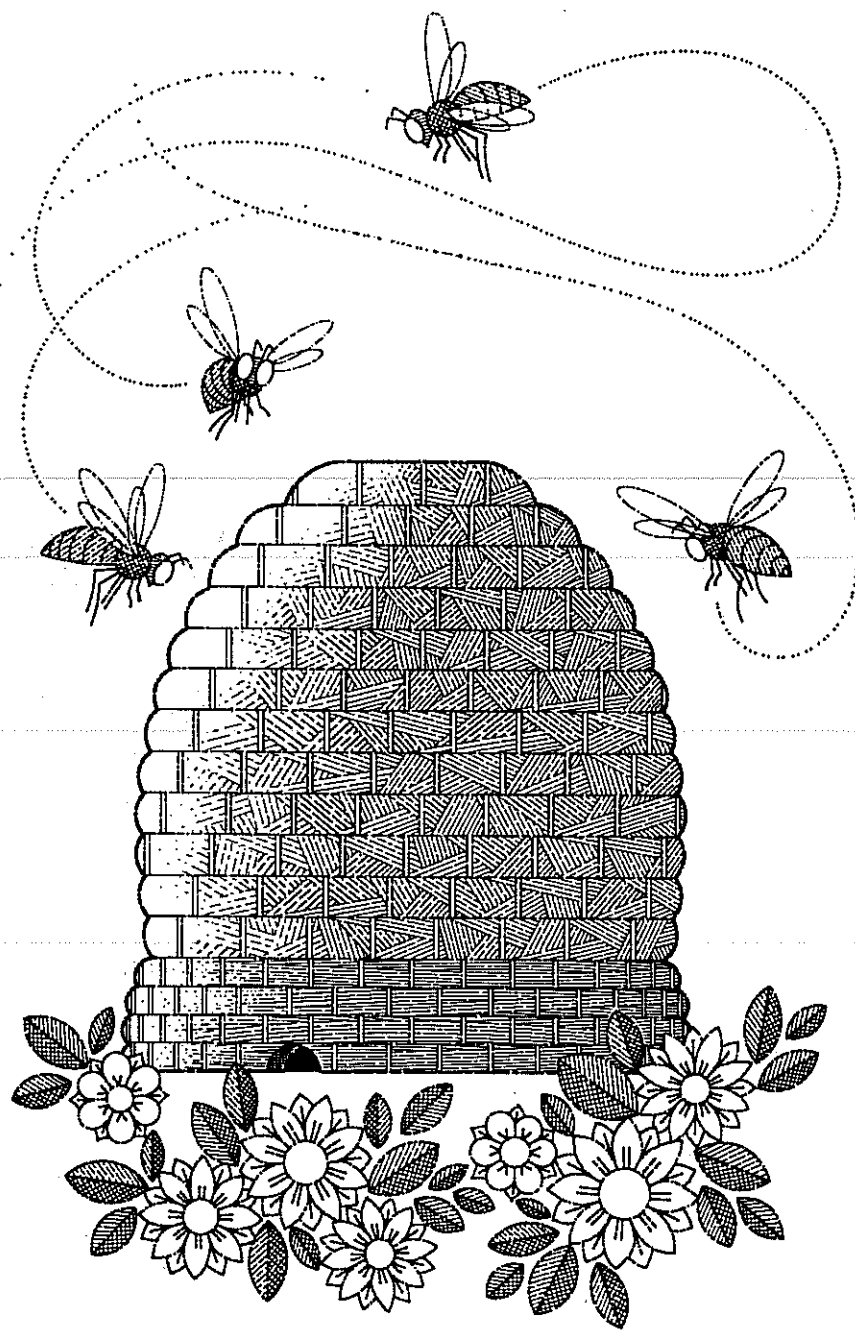
ITEM	YEAR	PRODUCTION TOTAL	PER UNIT	VALUE	
				UNIT	TOTAL
Apiary Products ^a					
Honey	1993	2,278,000	lb.	\$.51	\$ 1,162,000
	1992	1,167,000	lb.	\$.53	\$ 619,000
Beeswax	1993	107,300	lb.	1.26	135,000
	1992	106,700	lb.	1.17	125,000
Pollination ^b					
Alfalfa Seed	1993	53,000	colony	19.81	1,050,000
	1992	71,800	colony	20.29	1,457,000
Tree Fruit ^c	1993	91,400	colony	32.04	2,928,000
	1992	79,000	colony	31.81	2,513,000
Cantaloupe	1993	54,800	colony	14.18	777,000
	1992	39,200	colony	15.03	589,000
Total	1993				\$ 6,052,000
	1992				\$ 5,303,000

a Reflects bee colonies registered in Fresno County by commercial and semi-commercial beekeepers:
1993 - 41,126 colonies; 1992 - 37,040 colonies

b Reflects value of pollination by all bee colonies located in Fresno County for pollination services during 1993. Estimated total colonies: 102,600

c Almonds, cherries and plums







INDUSTRIAL CROPS

CROP	YEAR	PRODUCTION	UNIT (a)	VALUE (b)
Timber	1993	85,715,000	board feet	\$ 8,135,000
	1992	48,400,000	board feet	\$ 5,400,000
Fire Wood	1993	3,730	cords	18,700
	1992	4,240	cords	21,200
Total	1993			\$ 8,153,700
	1992			\$ 5,421,200

a Board feet is the quantity of timber cut and sealed

b Value of timber immediately prior to cutting

**GROWTH IN FRESNO COUNTY AGRICULTURE AS INDICATED BY GROSS PRODUCTION
VALUE OF AGRICULTURAL PRODUCTS OVER A TWENTY - ONE YEAR SPAN**

1973 -	828,682,000*	1984 -	1,921,020,840*
1974 -	967,350,000	1985 -	2,054,060,400*
1975 -	1,026,356,000*	1986 -	2,125,721,200*
1976 -	1,178,373,000*	1987 -	2,264,044,000*
1977 -	1,110,424,200*	1988 -	2,444,732,600*
1978 -	1,241,033,100*	1989 -	2,607,648,800*
1979 -	1,719,235,500	1990 -	2,949,484,000*
1980 -	2,002,448,900*	1991 -	2,552,305,040*
1981 -	1,905,289,240*	1992 -	2,635,447,400*
1982 -	1,855,733,500	1993 -	3,022,566,100
1983 -	1,727,319,500		

SIX YEAR COMPARISON OF GROSS PRODUCTION VALUE IN FRESNO COUNTY

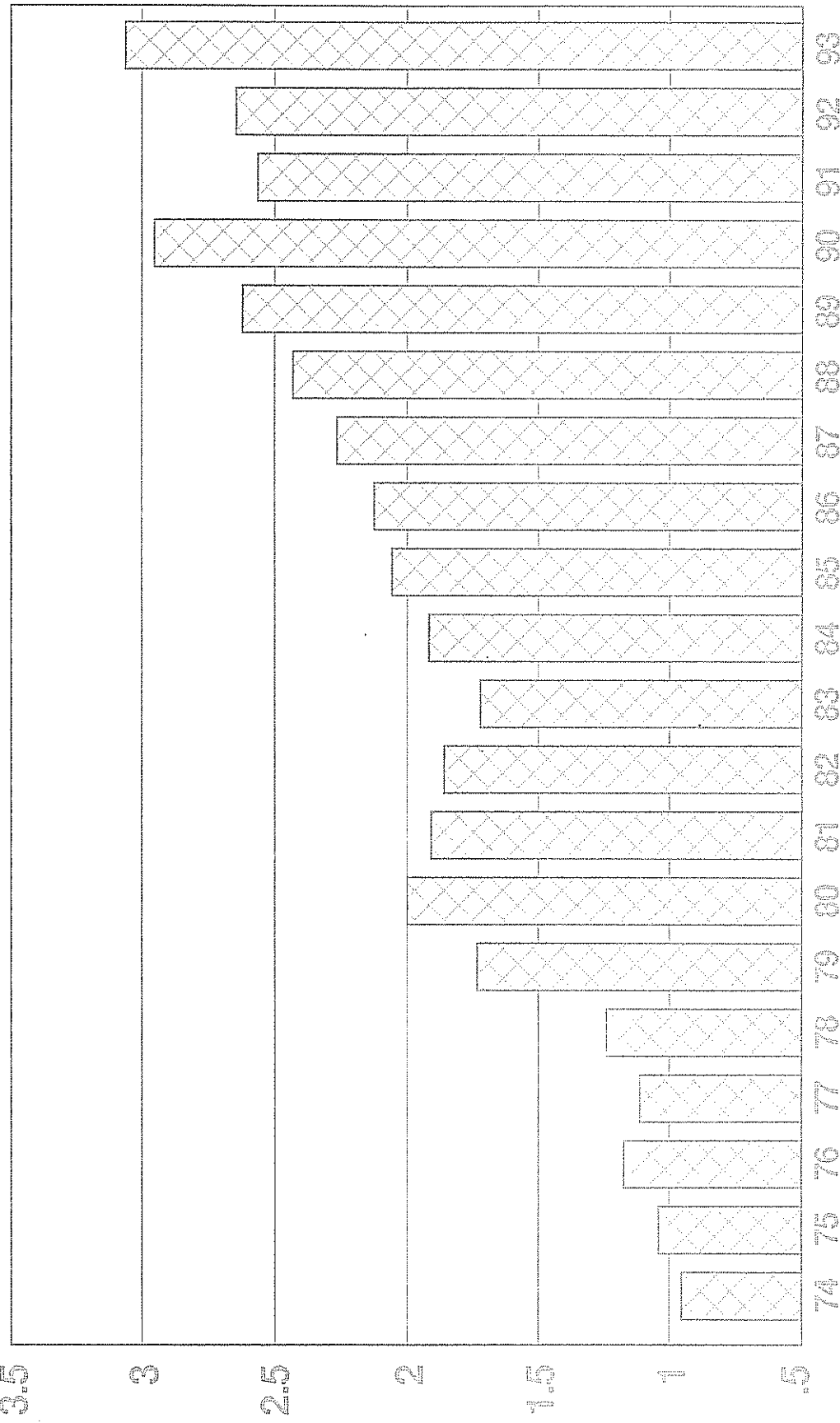
	1973	1983	1990	1991	1992	1993
Field Crops	\$248,562,000	\$481,053,000	\$597,457,000	\$500,333,000	\$549,162,000	\$607,058,000
Seed Crops	15,708,000	40,261,000	53,078,000	39,729,400	31,035,000	34,577,000
Vegetable Crops	73,012,000	290,898,000	605,544,000	524,538,000*	453,325,000	609,714,000
Fruit & Nut Crops	326,235,000	562,116,400	940,919,000	798,039,840	932,394,200*	1,010,509,400
Nursery Products	2,245,000	5,240,000	18,194,000	18,074,000	16,747,000	21,549,000
Livestock & Poultry	161,747,000	338,694,000	715,355,000*	657,290,000*	642,060,000*	724,953,000
Apiary	1,173,000	5,643,100	6,844,000	6027,400	5,303,000	6,052,000
Industrial Crops	+	3,414,000	12,093,000	8,273,400	5,421,200	8,153,700
TOTAL	\$828,682,000	\$1,727,319,500	\$2,949,484,000*	\$2,552,305,040*	\$2,635,447,400*	\$3,022,566,100

*Revised

+Not reported

GROWTH OF FRESNO COUNTY AGRICULTURE OVER A TWENTY YEAR SPAN

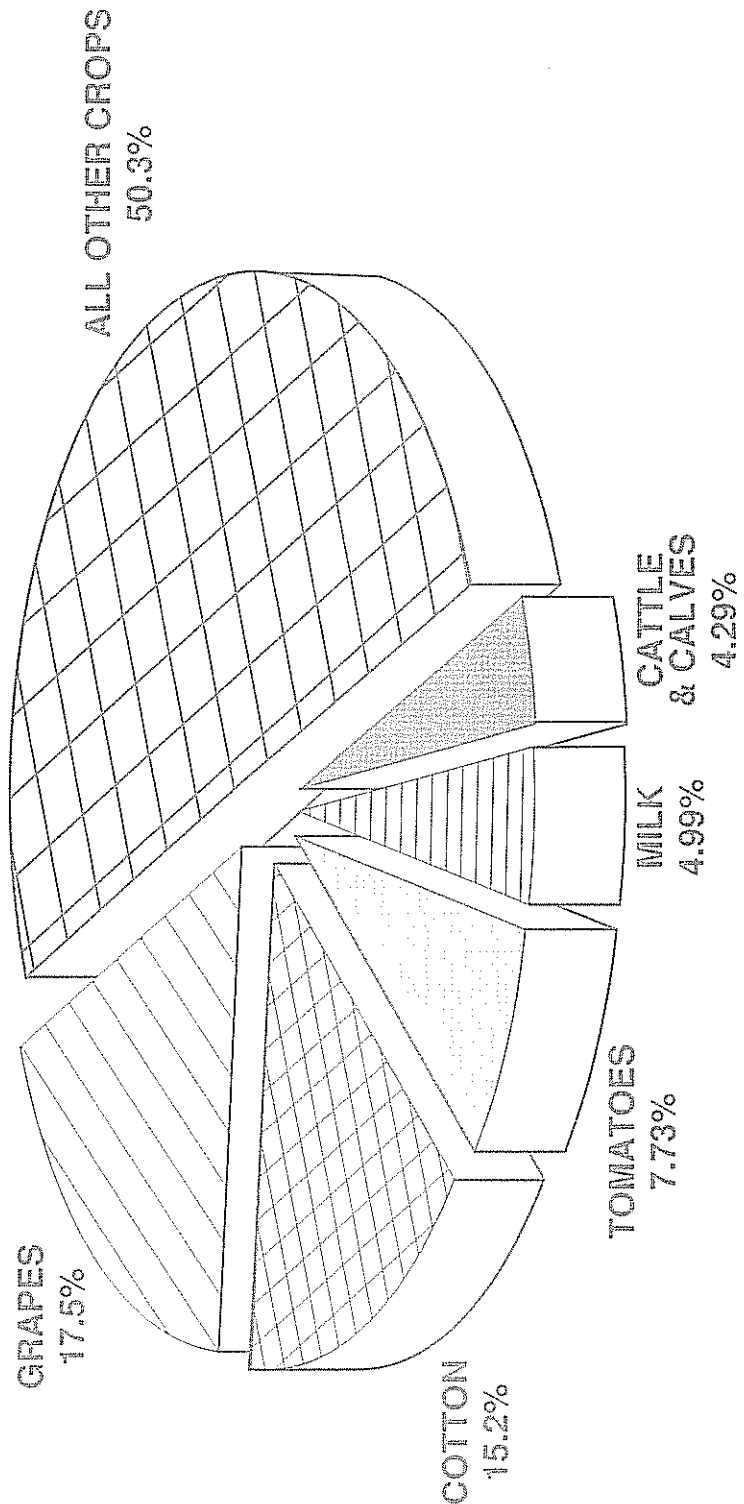
GROSS PRODUCTION VALUE (in billions)



1974 through 1993

FRESNO COUNTY'S 5 LEADING CROPS RELATIVE GROSS VALUE

Total Value \$3,022,566,100





Department of Agriculture

Cosmo C. Insalaco
Agricultural Commissioner
Sealer of Weights & Measures

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

The Honorable Board of Supervisors
County of Fresno

Sharon Levy, Chairman
Deran Koligian
Stan Oken
Tom Perch
Doug Vagim

William H. Randolph
County Administrative Officer

I am pleased to submit the 1994 Fresno County Agricultural Crop and Livestock Report. This annual compilation presents statistical data pertaining to the acreage, yield, and gross value of Fresno County agricultural products.

The total gross production value of Fresno County agricultural commodities in 1994 was \$3,084,870,800. This represents a 2.07 percent increase from the 1993 gross production values.

It must be emphasized that the values presented in this report reflect gross values only, and do not in any manner reflect net income or loss to producers.

Agriculture continues as the major industry in Fresno County and is a driving force in the county's economy. Every dollar received by Fresno County producers results in the economic extension benefit of three and one-half dollars to the total economy of the county.

I sincerely appreciate the professional and dedicated work performed by Deputy Agricultural Commissioner/Sealer Dennis C. Plann; Supervising Agricultural/Standards Specialist Bruce L. Clayton; Agricultural/Standards Specialists Scotti E. Abell and Don Takanishi; as well as the rest of my staff at the Department of Agriculture for the preparation of this report.

My thanks to the many individuals, related agencies and members of the agricultural industry for their contributions in the compilation of this report.

Best Regards,

A handwritten signature in cursive script, appearing to read "Cosmo C. Insalaco".

Cosmo C. Insalaco
Agricultural Commissioner/Sealer

*"If you want to behold a truly religious man
in action, go to Fresno and watch a farmer
watering his trees, vines and plants."*

William Saroyan

*"Farming looks mighty easy when your plow
is a pencil and you're a thousand miles from
a cornfield."*

Dwight David Eisenhower

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FRESNO COUNTY'S 10 LEADING CROPS

Crop	1994 Rank	1994 Dollar Value	1993 Rank	1984 Rank	1974 Rank
COTTON	1	503,237,000	2	1	1
GRAPES	2	490,762,000	1	2	2
TOMATOES	3	284,379,000	3	4	4
MILK	4	168,654,000	4	5	5
CATTLE & CALVES	5	116,878,000	5	3	3
ALMONDS	6	106,489,000	7	13	17
HEAD LETTUCE	7	97,513,000	6	11	15
GARLIC	8	95,700,000	16	17	*
ORANGES	9	85,216,000	9	7	9
NECTARINES	10	80,256,000	8	10	16

* Not reported separately

1994 Retrospect Highlights

January:

Sugar beet fields were being thinned. Grape growers were pruning and tying vines. Stone fruit orchards were being treated with dormant spray.

February:

Most early varieties of peaches, plums and nectarines were in bloom. Almonds had just started to bloom. Cotton growers were preirrigating their fields. Spring lettuce plantings were being thinned.

March:

A fast moving hail storm, with winds of 40 miles per hour, caused approximately \$6,000,000 damage to stone fruit, kiwis and strawberries. The spring lettuce harvest started. Citrus trees had started to develop new growth and grape vines were leafing out.

April:

Cotton planting was in full swing. Growers were thinning apricots, nectarines, peaches, and plums. The strawberry and sugar beet harvests started. A few growers were harvesting zucchini squash. An intense rain storm damaged nearly 2,000 acres of cotton, 500 acres of tomatoes, and 70 percent of the spring strawberry crop. The spring head lettuce harvest was over. Citrus bloom in the county was declared. The valencia orange harvest started.

May:

Growers have finished cotton planting. The stone fruit and cherry harvests have started. Two major storms moved through the county and caused \$3,405,082 damage to cotton, stone fruit, grapes, strawberries, and alfalfa hay. The barley harvest started. Red and yellow onions were being sacked and boxed. Cattle were taken off rangeland and moved to feed lots.

June:

Fresh pac green tomatoes were being harvested. Seed alfalfa was in full bloom. The wheat, barley, oat, and melon harvests started. Cotton was being thinned. The stone fruit harvest was in full swing.

July:

The processing tomato harvest started on the westside of the county. Growers have started harvesting table grapes. Cotton fields were in full bloom. Garbanzo bean fields were drying in preparation for harvest. Fresh market and processing garlic fields were harvested. The Asian pear harvest had started. Fall lettuce fields were being bedded up and treated with herbicides in preparation for planting.

August:

Raisin grapes were being put down on trays to dry. Growers were planting fall leaf and head lettuce. Most cotton growers had started their last irrigation of the year.

September:

The first pomegranates were harvested. Cotton defoliation was in full swing. Growers were harvesting rice and lima beans and preparing land to plant wheat, barley and oats.

October:

A series of rain storms caused extensive damage to the raisin crop that had not been picked up and was still in the field. Dehydrators operated around the clock to recondition rain damaged raisins. The fall lettuce and cotton harvests had started. Persimmon and quince were being harvested. Early varieties of navel oranges had started to develop color.

November:

The table grape harvest was over. The fall head lettuce harvest started. Strawberries were being sold at roadside stands. Navel oranges were being harvested.

December:

The cotton harvest was finished. Grape growers were pruning and tying their vines. Peach, plum and nectarine orchards were being pruned. Stone fruit growers had started to apply dormant spray to their orchards.

FIELD CROPS: Total gross returns for all field crops increased by \$54,004,000 to \$661,062,000, and the harvested acreage was up by 6,270 acres. Cotton replaced grapes as the county's most valuable crop and increased in value by \$42,442,000 to \$503,237,000. Upland cotton increased by 12,000 acres while pima cotton was down by 10,700 acres. The value of the dry bean crop increased in gross value by 40.20 percent from \$10,780,000 to \$15,114,000. Alfalfa hay plantings were up by 2,000 acres resulting in a \$4,276,000 increase in crop value. Both rice and safflower acreage was down but sugar beets increased by 5,600 acres to 22,600 acres. The total gross returns for wheat were up by \$1,368,000 as a result of increases in acreage, yield and price.

SEED CROPS: Total gross returns for seed crops increased by \$3,821,000 from \$34,577,000 to \$38,398,000, while the harvested acreage decreased slightly. The returns for certified alfalfa were up by 51.51 percent, from \$13,312,000 to \$20,169,000, and the returns for non-certified alfalfa were up by \$6,068,000 to \$10,748,000. The returns for certified barley seed decreased from \$233,000 to \$151,000, while the value of the non-certified barley crop almost tripled. Certified wheat acreage decreased by 68.38 percent, while non-certified acreage was up.

VEGETABLE CROPS: The total gross returns for all vegetable crops increased by 10.58 percent to \$674,231,000, although harvested acreage was down by 4.58 percent. Garlic increased by 1,400 acres and the price paid to growers was up \$252 per ton. The total gross returns for spring head lettuce decreased by \$45,972,000, while the value of the fall head lettuce crop was up \$31,535,000. The total gross returns for cantaloupe fell by 21.23 percent to \$47,476,000 as a result of a decrease in price and harvested acreage. The planted Oriental vegetable acreage was down but the total gross returns for the crop increased by \$2,487,000 to \$11,485,000. The value of both processed and fresh onions decreased because of a reduction in the number of harvested acres. The value of sweet corn increased by 58.96 percent to \$9,118,000. Tomatoes, number three on the county's top ten list of commodities, increased in value by 21.64 percent to \$284,379,000. Tomato plantings increased by 3,950 acres.

FRUIT AND NUT CROPS: Total gross returns for all fruit and nut crops decreased by \$18,399,500 from \$1,010,509,400 to \$992,109,900. Almonds, up in value by \$13,849,000, moved from seventh to sixth place on the county's top ten list of crops. Apple production rose by 20.30 percent to 31,400 tons. Apricot growers received \$230 per ton less than in 1993, but an increase in yield and acreage resulted in a total crop value that was up by 40.26 percent. Lemon production increased 2.02 tons per acre, and the value of the fresh market crop increased by \$713,000 to \$2,131,000. The value of the orange crop increased 6.92 percent to \$85,216,000. Grapes, after six years as the county's most valuable crop, were replaced by cotton. The value of this year's grape crop was down by 7.16 percent to \$490,762,000. The total nectarine acreage and average yield were up, but because the price paid to growers was down, the value of the crop decreased by \$850,000. The gross returns reported for the Asian pear crop were up 37.94 percent to \$4,090,000, while both walnut and strawberry values were down.

NURSERY PRODUCTS: The gross returns from sales of nursery products increased by \$2,651,000 to \$23,945,000. Christmas tree production was down by 38.29 percent, with total gross returns of \$104,000. The returns for other nursery crops, which includes bareroot fruit and nut trees, grape rootings and vegetable plants, increased by \$2,759,000 to \$18,237,000. The value of both ornamental trees and shrubs and herbaceous ornamentals was down.

LIVESTOCK AND POULTRY: Total net returns decreased by \$58,819,000, or 10.65 percent, to \$493,670,000. Cattle and calves were again fifth on the county's top ten list, with a value of \$116,878,000, down \$12,800,000 from last year. The total gross value for turkeys was up by \$1,066,000. Hog production was up 12,100 head, which increased total gross returns to \$2,821,000. The number of sheep and lambs sold was down by 11,300 head. The value of ostrich breeding stock sold was down by \$1,804,000.

LIVESTOCK AND POULTRY PRODUCTS: The total gross returns for livestock and poultry products increased by \$7,141,000 to total \$179,605,000. Milk remained fourth on the top ten list, with a gross value of \$168,654,000, up by \$17,893,000 from last year. Wool prices increased \$0.19 per pound and gross returns were up \$56,000. The value of manure produced in the county was down by 73.29 percent to \$4,044,000.

APIARY PRODUCTS AND POLLINATION SERVICES: Gross returns for apiary products and pollination services decreased by \$37,000 from \$6,052,000 to \$6,015,000. The total value of pollination services, which includes alfalfa seed, tree fruit and cantaloupe acreage, increased by \$332,000 to \$5,087,000.

INDUSTRIAL CROPS: The total gross returns of industrial crops were up by 94.20 percent, or \$7,681,200. Even though the number of board feet of lumber that was harvested decreased by 51.58 percent, its value increased \$7,625,000.



FIELD CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Barley	1994	13,000	2.39	31,100	ton	\$ 114.00	\$ 3,545,000
	1993	16,000	2.40	38,400	ton	\$ 105.00	\$ 4,032,000
Beans, dry ^a	1994	22,000	1.04	22,900	ton	660.00	15,114,000
	1993	17,900	.98	17,500	ton	616.00	10,780,000
Corn							
Grain	1994	3,100	4.42	13,700	ton	108.00	1,480,000
	1993	3,900	4.46	17,400	ton	103.00	1,792,000
Silage	1994	18,500	27.08	501,000	ton	22.00 ^b	11,022,000
	1993	18,000	27.39	493,000	ton	24.00 ^b	11,832,000
Cotton, Upland							
Lint	1994	350,000	1,490 ^c	1,043,000 ^d	bale	.79 ^c	415,281,000
	1993	338,000	1,491 ^c	1,008,000 ^d	bale	.72 ^c	365,783,000
Seed	1994			372,000	ton	155.00	57,660,000
	1993			360,000	ton	162.00	58,320,000
Cotton, Pima							
Lint	1994	22,800	1,123 ^c	51,200 ^d	bale	1.03 ^c	26,579,000
	1993	33,500	1,113 ^c	74,600 ^d	bale	.83 ^c	31,207,000
Seed	1994			20,500	ton	142.00	2,911,000
	1993			29,600	ton	151.00	4,470,000
Hay							
Alfalfa ^f	1994	68,000	9.12	620,000	ton	115.00	71,300,000
	1993	66,000	8.61	568,000	ton	118.00	67,024,000
Other ^g	1994	10,900	2.78	30,300	ton	83.00	2,515,000
	1993	10,200	3.40	34,700	ton	76.00	2,637,000
Pasture and Range							
Field	1994	31,700			acre	16.00	507,000
Stubble ^h	1993	17,300			acre	17.98	311,000

FIELD CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Pasture and Range (continued)							
Irrigated Pasture	1994	40,000			acre	\$ 110.00	\$ 4,400,000
	1993	40,000			acre	\$ 110.00	\$ 4,400,000
Grazing Range	1994	850,000			acre	7.00	5,950,000
	1993	850,000			acre	7.00	5,950,000
Rice	1994	6,200	3.52	21,800	ton	157.00	3,423,000
	1993	7,200	3.71	26,700	ton	180.00	4,806,000
Safflower	1994	10,600	1.65	17,500	ton	290.00	5,075,000
	1993	15,700	1.08	17,000	ton	293.00	4,981,000
Sugar Beets	1994	22,600	28.58	646,000	ton	35.02	22,623,000
	1993	17,000	29.00	493,000	ton	36.70	18,093,000
Wheat	1994	28,800	3.13	90,100	ton	116.00	10,452,000
	1993	28,000	3.06	85,700	ton	106.00	9,084,000
Other ⁱ	1994	5,440					1,225,000
	1993	<u>4,270</u>					<u>1,556,000</u>
Total	1994	1,471,940					\$661,062,000
	1993	1,465,670					\$607,058,000

a Includes black, blackeyes, garbanzo, pinto, red kidney, and small white beans

b Field price

c Pounds of lint per acre

d 500 pounds lint per bale

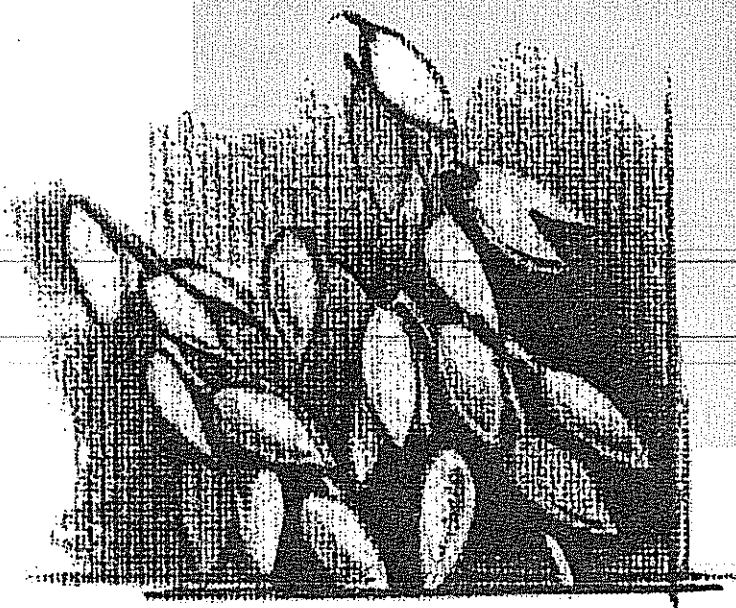
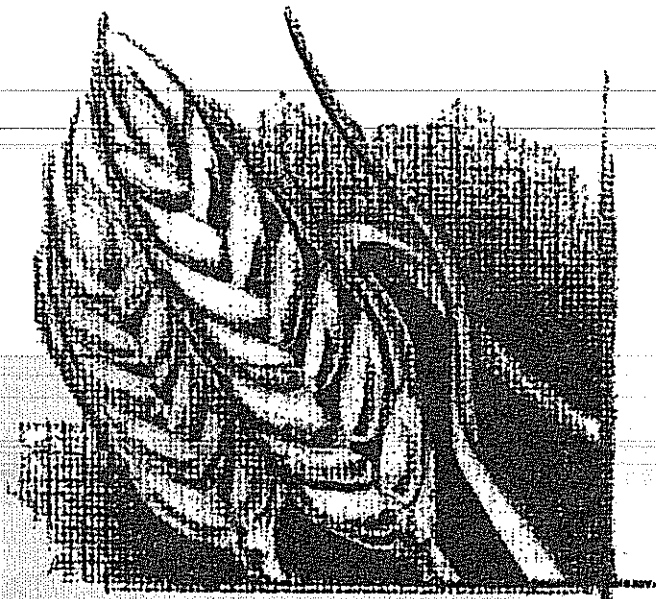
e Price per pound, 504 pounds gross weight per bale

f Includes bales and cubes

g Includes hay from barley, oats, and wheat

h Not included in total acreage figures; includes acreage from alfalfa hay and seed alfalfa, barley, beans, lettuce, melons, tomatoes, and wheat

i Includes alfalfa greenchop, barley silage, oats, oat silage, straw, sudan, wheat silage, and winter forage



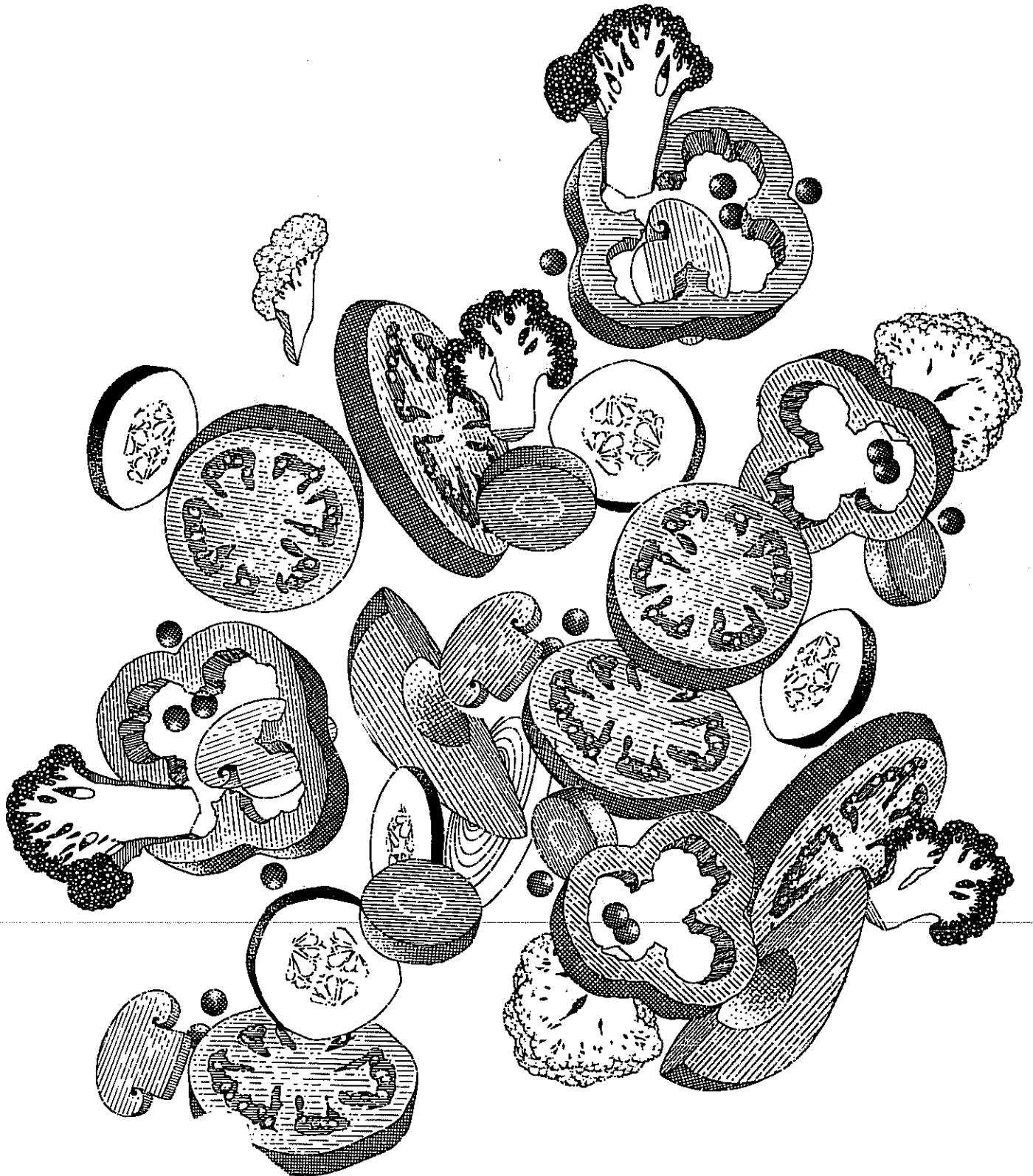
SEED CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Alfalfa	1994	14,900	940	14,006,000	lb.	\$1.44	\$20,169,000
Certified	1993	13,000	800	10,400,000	lb.	\$1.28	\$13,312,000
Non-Certified	1994	9,670	855	8,268,000	lb.	1.30	10,748,000
	1993	7,800	600	4,680,000	lb.	1.00	4,680,000
Alfalfa Seed	1994	24,570		22,274,000	lb.		30,917,000
Total	1993	20,800		15,080,000	lb.		17,992,000
Barley	1994	285	5,300	1,511,000	lb.	.10	151,000
Certified	1993	550	5,300	2,915,000	lb.	.08	233,000
Non-Certified	1994	1,740	5,000	8,700,000	lb.	.09	783,000
	1993	900	5,050	4,545,000	lb.	.06	273,000
Cotton^a	1994	8,700		7,327,000	lb.	.11	806,000
	1993	6,200		9,226,000	lb.	.11	1,015,000
Vegetable^b	1994	1,190					1,101,000
	1993	2,000					4,029,000
Wheat	1994	6,640	6,000	39,840,000	lb.	.08	3,187,000
Certified	1993	21,000	6,000	126,000,000	lb.	.08	10,080,000
Non-Certified	1994	2,640	5,300	13,992,000	lb.	.07	979,000
	1993	1,500	5,300	7,950,000	lb.	.07	557,000
Other^c	1994	1,162					474,000
	1993	<u>819</u>					<u>398,000</u>
Total	1994	46,927					\$38,398,000
	1993	47,569					\$34,577,000

a Included in field crop acreage

b Eggplant, lettuce, onion, and tomato

c Certified blackeye beans, certified clover, certified garbanzo beans, and non-certified oats



VEGETABLE CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Bell Peppers ^a	1994	1,650	11.09	18,300	ton	\$495.00	\$ 9,059,000
	1993	1,500	15.00	22,500	ton	\$272.00	\$ 6,120,000
Broccoli ^a	1994	5,500	5.18	28,500	ton	511.00	14,564,000
	1993	6,800	4.85	33,000	ton	377.00	12,441,000
Eggplant ^b	1994	760	17.37	13,200	ton	515.00	6,798,000
	1993	770	13.38	10,300	ton	434.00	4,470,000
Garlic ^a	1994	19,800	8.79	174,000	ton	550.00	95,700,000
	1993	18,400	9.57	176,000	ton	298.00	52,448,000
Head Lettuce							
Spring Season Total		Naked		59,700	ton		
		Wrapped		76,300	ton		
		Bulk		28,600	ton		
	1994	9,620	17.11	164,600	ton	204.00	33,578,000
	1993	7,900	20.14	159,100	ton	500.00	79,550,000
Fall Season Total		Naked		54,400	ton		
		Wrapped		81,400	ton		
		Bulk		50,600	ton		
	1994	10,200	18.27	186,400	ton	343.00	63,935,000
	1993	10,300	15.73	162,000	ton	200.00	32,400,000
Head Lettuce Totals	1994	19,820		351,000			97,513,000
	1993	18,200		321,000			111,950,000
Melons							
Cantaloupe	1994	28,000	10.21	286,000	ton	166.00	47,476,000
	1993	37,000	7.76	287,000	ton	210.00	60,270,000
Honeydew	1994	4,200	15.95	67,000	ton	190.00	12,730,000
	1993	4,200	12.31	51,700	ton	266.00	13,752,000
Mixed Melons ^c	1994	2,000	12.80	25,600	ton	248.00	6,349,000
	1993	1,750	9.70	17,000	ton	267.00	4,539,000

VEGETABLE CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Melons (continued)							
Watermelon	1994	550	20.00	11,000	ton	\$ 89.00	\$ 979,000
	1993	550	27.27	15,000	ton	\$100.00	\$ 1,500,000
Onions							
Fresh	1994	4,000	25.50	102,000	ton	211.00	21,522,000
	1993	6,300	23.81	150,000	ton	210.00	31,500,000
Processed	1994	10,500	18.29	192,000	ton	76.00	14,592,000
	1993	15,700	18.47	290,000	ton	80.00	23,200,000
Oriental Vegetables ^d	1994	1,700	13.12	22,300	ton	515.00	11,485,000
	1993	2,000	11.00	22,000	ton	409.00	8,998,000
Squash ^e	1994	770	12.47	9,600	ton	393.00	3,773,000
	1993	940	10.85	10,200	ton	355.00	3,621,000
Sweet Corn	1994	2,800	11.71	32,800	ton	278.00	9,118,000
	1993	2,300	10.43	24,000	ton	239.00	5,736,000
Sweet Potatoes/ Yams	1994	926	6.85	6,340	ton	466.00	2,954,000
	1993	1,320	8.03	10,600	ton	448.00	4,749,000
Tomatoes							
Fresh							
Cherry	1994	850	17.76	15,100	ton	622.00	9,392,000
	1993	1,000	21.90	21,900	ton	527.00	11,541,000
Standard	1994	9,700	15.36	149,000	ton	422.00	62,878,000
	1993	9,600	16.15	155,000	ton	392.00	60,760,000
Processed	1994	100,000	41.59	4,159,000	ton	51.00	212,109,000
	1993	96,000	35.79	3,436,000	ton	47.00	161,492,000

VEGETABLE CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Other^f	1994	11,766					\$ 35,240,000
	1993	<u>11,165</u>					<u>\$ 29,657,000</u>
Total	1994	225,292					\$674,231,000
	1993	236,105					\$609,714,000

a Includes fresh and processed

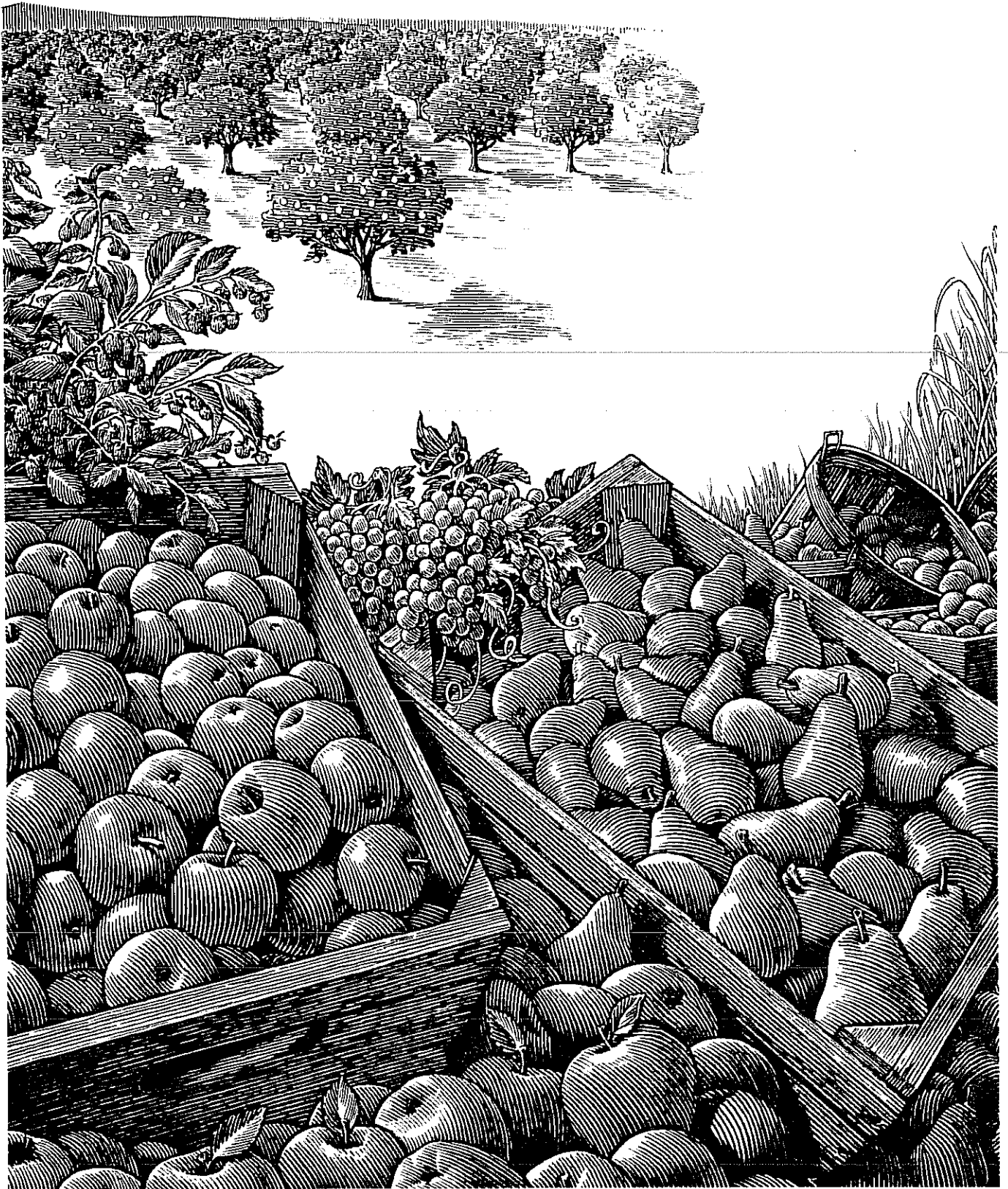
b Includes Chinese, globe, Italian and Japanese varieties

c Includes casaba, crenshaw, juan canary, Persian, santa claus, and sharlyn

d Includes bittermelon, bok choy, diakon, dunqua, gia choy, gialon, gobo, lemon grass, lo bok, long beans, moqua, napa, opo, sinqua, sugar peas, taro, and yu choy

e Includes soft and hard types

f Includes asparagus, basil, baby and large lima beans, fava beans, green beans, beets, cabbage, carrots, cauliflower, celery, Swiss and red chard, cilantro, collards, cornnuts, cucumbers, dandelion greens, dill, endive, kale, kohlrabi, leeks, leaf and Romaine lettuce, mushrooms, mustard greens, okra, green onions, oregano, organic black and lima beans, organic processed tomatoes, ornamental corn, parsley, peas, chili peppers, potatoes, pumpkins, radishes, spinach, sunchoke, tomatillos, turnips and turnip greens



FRUIT AND NUT CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Almonds	1994	42,016	.92	38,700	ton	\$2,640.00	\$ 102,168,000
	1993	36,503	.65	23,700	ton	\$3,840.00	\$ 91,008,000
Almond Hulls	1994			69,700	ton	62.00	4,321,000
	1993			27,200	ton	60.00	1,632,000
Apples	1994	3,206	9.79	31,400	ton	711.00	22,325,000
	1993	2,484	10.51	26,100	ton	664.00	17,330,000
Apricots	1994	1,122	8.02	9,000	ton	718.00	6,462,000
	1993	829	5.86	4,860	ton	948.00	4,607,000
Citrus							
Lemons	1994	881	6.58				
	1993	991	4.56				
Fresh	1994			3,700	ton	576.00	2,131,000
	1993			2,690	ton	527.00	1,418,000
Processed	1994			2,100	ton	53.81	113,000
	1993			1,830	ton	40.00	73,200
Oranges							
Navel	1994	17,634	11.57				
	1993	16,885	13.38				
Fresh	1994			162,000	ton	397.00	64,314,000
	1993			166,000	ton	345.00	57,270,000
Processed	1994			42,000	ton	24.00	1,008,000
	1993			60,000	ton	17.50	1,050,000
Valencia	1994	5,123	12.34				
	1993	4,742	12.86				
Fresh	1994			49,900	ton	392.00	19,561,000
	1993			47,000	ton	443.00	20,821,000
Processed	1994			13,300	ton	25.04	333,000
	1993			14,000	ton	40.00	560,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Citrus, other^a	1994	593	14.00				
	1993	600	9.19				
Fresh	1994			6,540	ton	\$ 551.00	\$ 3,604,000
	1993			4,300	ton	\$ 644.00	\$ 2,769,000
Processed	1994			1,760	ton	17.00	29,900
	1993			1,200	ton	26.00	31,200
Figs, dried^b	1994	2,790	1.09	3,040	ton	1,228.00	3,733,000
	1993	3,319	1.20	3,980	ton	1,250.00	4,975,000
Grapes							
Raisin Varieties	1994	168,671	9.52				
	1993	166,054	10.58				
Canned	1994			9,000	ton	237.00	2,133,000
	1993			16,100	ton	227.00	3,655,000
Crushed	1994			95,200	ton	126.00	11,995,000
	1993			259,000	ton	157.00	40,663,000
Dried	1994			317,000	ton	933.00	295,761,000
	1993			323,000	ton	928.00	299,744,000
Fresh	1994			73,400	ton	780.00	57,252,000
	1993			40,800	ton	770.00	31,416,000
Juice	1994			2,300	ton	440.00	1,012,000
	1993			7,200	ton	520.00	3,744,000
Table Varieties	1994	10,142	7.87				
	1993	9,891	9.97				
Crushed	1994			5,400	ton	110.00	594,000
	1993			20,500	ton	106.00	2,173,000
Fresh	1994			74,400	ton	946.00	70,382,000
	1993			78,100	ton	970.00	75,757,000
Wine Varieties	1994	34,575	8.21				
	1993	32,283	11.28				
Crushed	1994			281,000	ton	179.00	50,299,000
	1993			361,000	ton	193.00	69,673,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Grapes (continued)							
Juice	1994			2,900	ton	\$ 460.00	\$ 1,334,000
	1993			3,300	ton	\$ 540.00	\$ 1,782,000
Grapes Total	1994	213,388					490,762,000
	1993	208,228					528,607,000
Kiwi Fruit	1994	427	6.93	2,960	ton	1,229.00	3,638,000
	1993	377	4.32	1,630	ton	1,730.00	2,820,000
Nectarines	1994	13,051	9.81	128,000	ton	627.00	80,256,000
	1993	12,396	8.63	107,000	ton	758.00	81,106,000
Olives, canned	1994	1,157	4.55	5,260	ton	470.00	2,472,000
	1993	1,127	4.61	5,200	ton	493.00	2,564,000
Peaches							
Cling	1994	1,644	18.00	29,600	ton	182.00	5,387,000
	1993	1,730	16.01	27,700	ton	224.00	6,205,000
Freestone	1994	12,729	10.37	132,000	ton	559.00	73,788,000
	1993	11,634	8.44	98,200	ton	641.00	62,946,000
Peaches Total	1994	14,373					79,175,000
	1993	13,364					69,151,000
Pears, Asian and European	1994	676	6.63	4,480	ton	913.00	4,090,000
	1993	577	7.23	4,170	ton	711.00	2,965,000
Persimmons	1994	392	7.55	2,960	ton	1,257.00	3,721,000
	1993	313	11.50	3,600	ton	718.00	2,585,000
Pistachios	1994	3,645	.67	2,440	ton	2,320.00	5,661,000
	1993	2,858	1.50	4,290	ton	2,860.00	12,269,000
Plums	1994	16,169	6.49	105,000	ton	626.00	65,730,000
	1993	16,065	5.26	84,500	ton	827.00	69,882,000
Pomegranates	1994	966	7.73	7,470	ton	755.00	5,640,000
	1993	929	6.19	5,750	ton	766.00	4,405,000
Prunes, dried	1994	1,600	4.14	6,620	ton	1,225.00	8,110,000
	1993	1,429	4.31	6,160	ton	1,135.00	6,992,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Strawberries^c	1994	650	8.71	5,660	ton	596.00	3,373,000
	1993	620	12.77	7,920	ton	622.00	4,926,000
Walnuts	1994	2,969	1.64	4,870	ton	\$ 1,067.00	\$ 5,196,000
	1993	2,502	2.21	5,530	ton	\$ 1,518.00	\$ 8,395,000
Other^d	1994	818					4,183,000
	1993	<u>591</u>					<u>9,745,000</u>
Total	1994	343,646					\$ 992,109,900
	1993	328,008					\$ 1,010,509,400

a Includes blood oranges, grapefruit, mandarin/tangerines, pummelos, and tangelos

b 115 acres of fresh figs are included in other fruit and nut crops

c Includes fresh and processed

d Includes avocados, boysenberries, blackberries, cherries, fresh figs, substandard figs, olive oil, fresh olives, ollaliberries, processed apricots, processed apples, processed grape leaves, processed peaches, pecans, and quince



NURSERY PRODUCTS

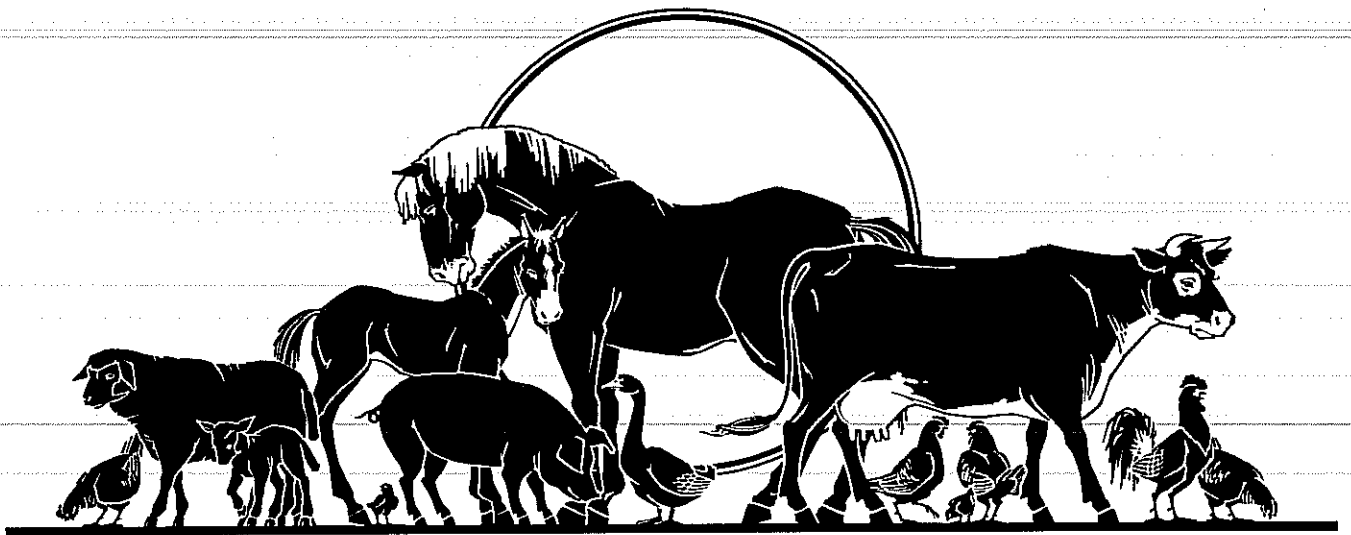
ITEM	YEAR	ACRES	QUANTITY	UNIT	VALUE
Christmas Trees	1994	55	5,325	trees	\$ 104,000
	1993	79	8,630*	trees	\$ 155,000*
Herbaceous Ornamentals^a	1994	15	792,000	b	1,053,000
	1993	15	1,049,000	b	1,067,000
Ornamental Trees and Shrubs	1994	48	580,000	plants	4,551,000
	1993	48	748,000	plants	4,594,000
Other^c	1994	560	39,906,000	plants	18,237,000
	1993	<u>533</u>	46,275,000	plants	<u>15,478,000</u>
Total	1994	678			\$23,945,000
	1993	675			\$21,294,000*

a Includes cut flowers, cut greens, potted plants, bedding plants, and herbaceous perennials

b Includes flats, dozens, cans, and single plants

c Includes bareroot fruit & nut trees, bud wood, citrus trees, grape rootings, and vegetable plants

* Revised



LIVESTOCK AND POULTRY

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Cattle and Calves						
Beef						
Breeding Stock						
Common	1994	1,200		head	\$ 600.00	\$ 720,000
	1993	1,160		head	\$ 688.00	\$ 798,000
Registered	1994	300		head	1,247.00	374,000
	1993	290		head	1,428.00	414,000
Feeders	1994	160,000	320,000	cwt.	75.24	24,077,000
	1993	180,000	360,000	cwt.	85.30	30,708,000
Calves	1994	21,000	63,000	cwt.	81.87	5,158,000
	1993	20,300	61,000	cwt.	99.51	6,070,000
Slaughter Stock						
From Feed Lots	1994	173,000	813,000 ^a	cwt.	69.00	56,097,000
	1993	167,000	785,000 ^a	cwt.	75.29	59,103,000
From Other Sources	1994	4,500	39,600	cwt.	48.61	1,925,000
	1993	4,350	38,300	cwt.	53.81	2,061,000
Dairy						
Breeding Stock	1994	9,200		head	1,250.00	11,500,000
	1993	9,000		head	1,300.00	11,700,000
Cull Stock	1994	22,000	286,000	cwt.	45.61	13,044,000
	1993	21,000	273,000	cwt.	50.80	13,868,000
Calves	1994	17,700	53,100	cwt.	75.00	3,983,000
	1993	16,800	50,400	cwt.	98.33	4,956,000
Hogs and Pigs						
Feeder Pigs and Slaughter Stock	1994	29,500	59,900	cwt.	47.10	2,821,000
	1993	17,400	35,400	cwt.	50.51	1,788,000

LIVESTOCK AND POULTRY (continued)

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Sheep and Lambs						
Slaughter Stock						
Lambs	1994	51,300	48,700	cwt.	\$80.00	\$ 3,896,000
	1993	60,300	57,300	cwt.	\$72.18	\$ 4,136,000
Sheep	1994	13,100	18,300	cwt.	35.52	650,000
	1993	15,400	21,600	cwt.	33.00	713,000
Turkeys	1994	4,663,000	102,353,000	lb.	.61	62,435,000
	1993	4,750,000	100,605,000	lb.	.61	61,369,000
Ostriches	1994	103				258,000
Breeding stock	1993	716				2,062,000
Other ^b	1994					306,732,000
	1993					<u>352,743,000</u>
Total	1994					\$493,670,000
	1993					\$552,489,000

a Net feedlot gain

b Includes chickens, fish, game birds, squab, turkey poults, old turkey breeder birds, cull milk goats, and kid goats

LIVESTOCK AND POULTRY PRODUCTS

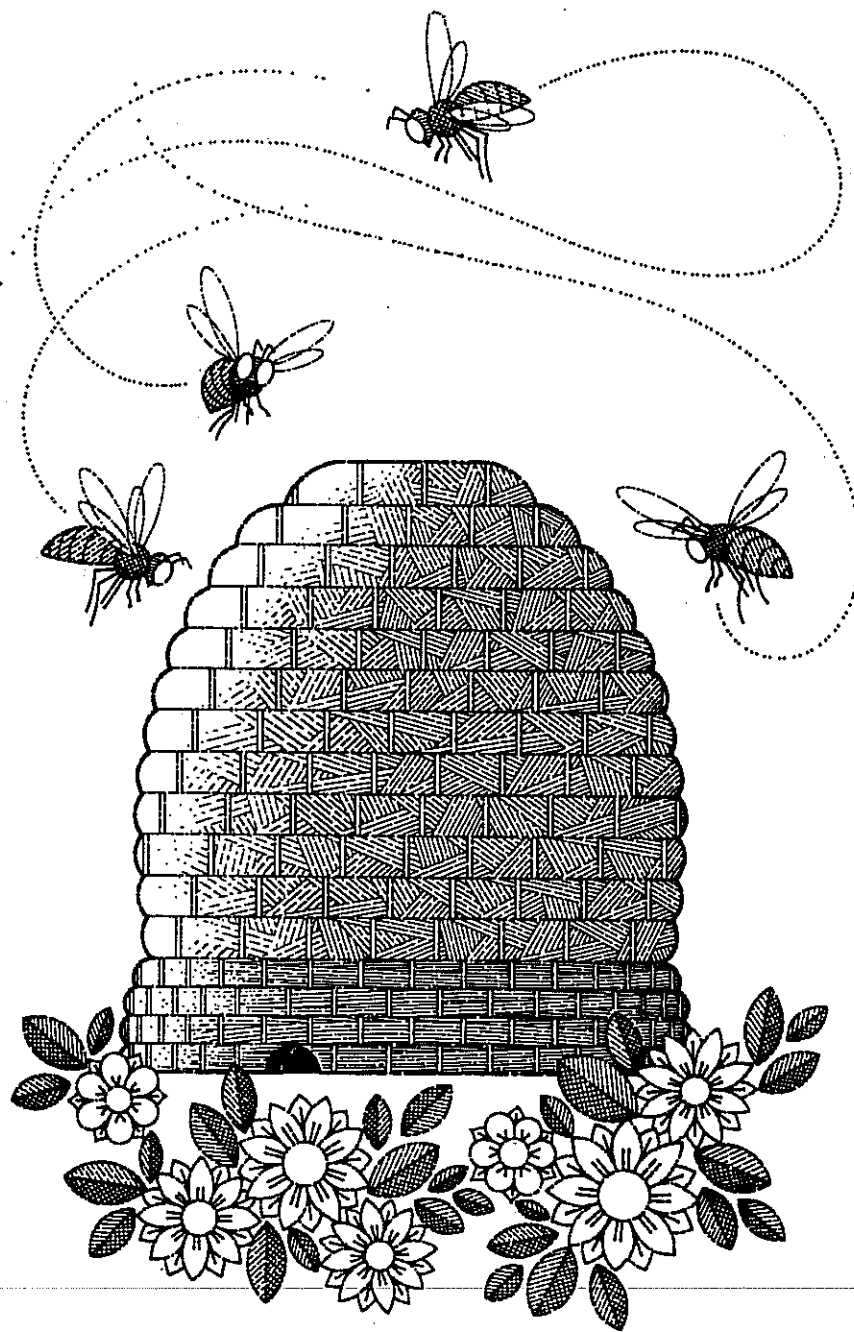
ITEM	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
Manure	1994	548,000	ton	\$ 7.38	\$ 4,044,000
	1993	2,201,000	ton	\$ 6.88	\$ 15,143,000
Milk					
Manufacturing	1994	45,000	cwt.	10.12	455,000
	1993	35,900	cwt.	11.06	397,000
Market ^a	1994	14,626,000	cwt.	11.50	168,199,000
	1993	13,342,000	cwt.	11.27	150,364,000
Wool	1994	524,000	lb.	.66	346,000
	1993	616,000	lb.	.47	290,000
Eggs					
Chicken & Turkey ^b	1994	1,396,000	dozen	4.70	6,561,000
	1993	1,372,000	dozen	4.57	6,270,000
Total	1994				\$179,605,000
	1993				\$172,464,000

a Includes cow and goat milk

b Includes market eggs and hatching eggs

JANUARY 1 INVENTORIES OF LIVESTOCK AND POULTRY (In Number of Head)

ITEM	January 1, 1995	January 1, 1994
Cattle and Calves		
All	406,000	387,000
Dairy and Beef Cows	109,500	103,500
Cattle on Feed	93,500	84,400
Stock Sheep and Lambs	62,200	65,500
Goats	7,700	6,000
Hogs and Pigs	15,000	12,000
Poultry	2,869,000	2,357,000



APIARY PRODUCTS AND POLLINATION SERVICES

ITEM	YEAR	PRODUCTION TOTAL	UNIT	VALUE	
				PER UNIT	TOTAL
Apiary Products ^a					
Honey	1994	1,755,000	lb.	\$.47	\$ 825,000
	1993	2,278,000	lb.	\$.51	\$ 1,162,000
Beeswax	1994	71,600	lb.	1.44	103,000
	1993	107,300	lb.	1.26	135,000
Pollination ^b					
Alfalfa Seed	1994	49,900	colony	19.44	970,000
	1993	53,000	colony	19.81	1,050,000
Tree Fruit ^c	1994	104,300	colony	33.09	3,451,000
	1993	91,400	colony	32.04	2,928,000
Cantaloupe	1994	45,400	colony	14.67	666,000
	1993	54,800	colony	14.18	<u>777,000</u>
Total	1994				\$ 6,015,000
	1993				\$ 6,052,000

a Reflects bee colonies registered in Fresno County by commercial and semi-commercial beekeepers:
1994 - 42,327 colonies; 1993 - 41,126 colonies

b Reflects value of pollination by all bee colonies located in Fresno County for pollination services during 1994. Estimated total colonies: 94,100

c Almonds, cherries and plums



INDUSTRIAL CROPS

CROP	YEAR	PRODUCTION	UNIT (a)	VALUE (b)
Timber	1994	41,500,000	board feet	\$ 15,760,000
	1993	85,715,000	board feet	\$ 8,135,000
Fire Wood	1994	14,400	CORDS	74,900
	1993	3,730	CORDS	<u>18,700</u>
Total	1994			\$15,834,900
	1993			\$ 8,153,700

a Board feet is the quantity of timber cut and sealed

b Value of timber immediately prior to cutting

**GROWTH IN FRESNO COUNTY AGRICULTURE AS INDICATED BY GROSS PRODUCTION
VALUE OF AGRICULTURAL PRODUCTS OVER A TWENTY- ONE YEAR SPAN**

1974 - 967,350,000	1985 - 2,054,060,400*
1975 - 1,026,356,000*	1986 - 2,125,721,200*
1976 - 1,178,373,000*	1987 - 2,264,044,000*
1977 - 1,110,424,200*	1988 - 2,444,732,600*
1978 - 1,241,033,100*	1989 - 2,607,648,800*
1979 - 1,719,235,500	1990 - 2,949,484,000*
1980 - 2,002,448,900*	1991 - 2,552,305,040*
1981 - 1,905,289,240*	1992 - 2,635,447,400*
1982 - 1,855,733,500	1993 - 3,022,311,100*
1983 - 1,727,319,500	1994 - 3,084,870,800
1984 - 1,921,020,840*	

SIX YEAR COMPARISON OF GROSS PRODUCTION VALUE IN FRESNO COUNTY

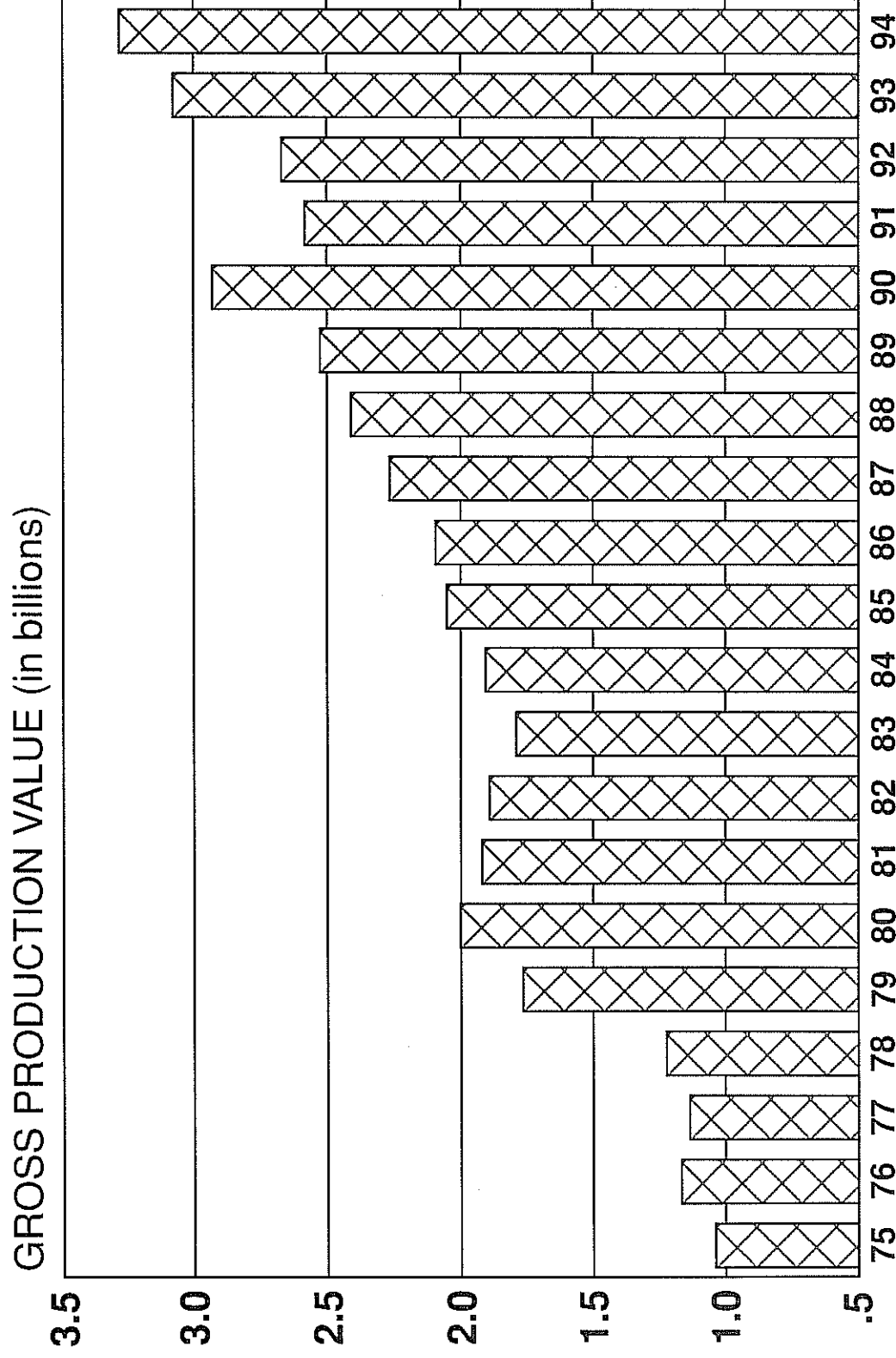
	1974	1984	1991	1992	1993	1994
Field Crops	\$347,460,000	\$522,738,000	\$500,333,000	\$549,162,000	\$607,058,000	\$661,062,000
Seed Crops	27,116,000	46,251,000	39,729,400	31,035,000	34,577,000	38,398,000
Vegetable Crops	129,778,000	319,163,000*	524,538,000*	453,325,000	609,714,000	674,231,000
Fruit & Nut Crops	294,634,000	580,953,600	798,039,840	932,394,200*	1,010,509,400	992,109,900
Nursery Products	1,394,000	8,255,000	18,074,000	16,747,000	21,294,000*	23,945,000
Livestock & Poultry	165,814,000	433,208,000	657,290,000*	642,060,000*	724,953,000	673,275,000
Apiary	1,154,000	6,040,240	6,027,400	5,303,000	6,052,000	6,015,000
Industrial Crops	+	4,412,000	8,273,400	5,421,200	8,153,700	15,834,900
TOTAL	\$967,350,000	\$1,921,020,840*	\$2,552,305,040*	\$2,635,447,400*	\$3,022,311,100*	\$3,084,870,800

*Revised

+Not reported

GROWTH OF FRESNO COUNTY AGRICULTURE

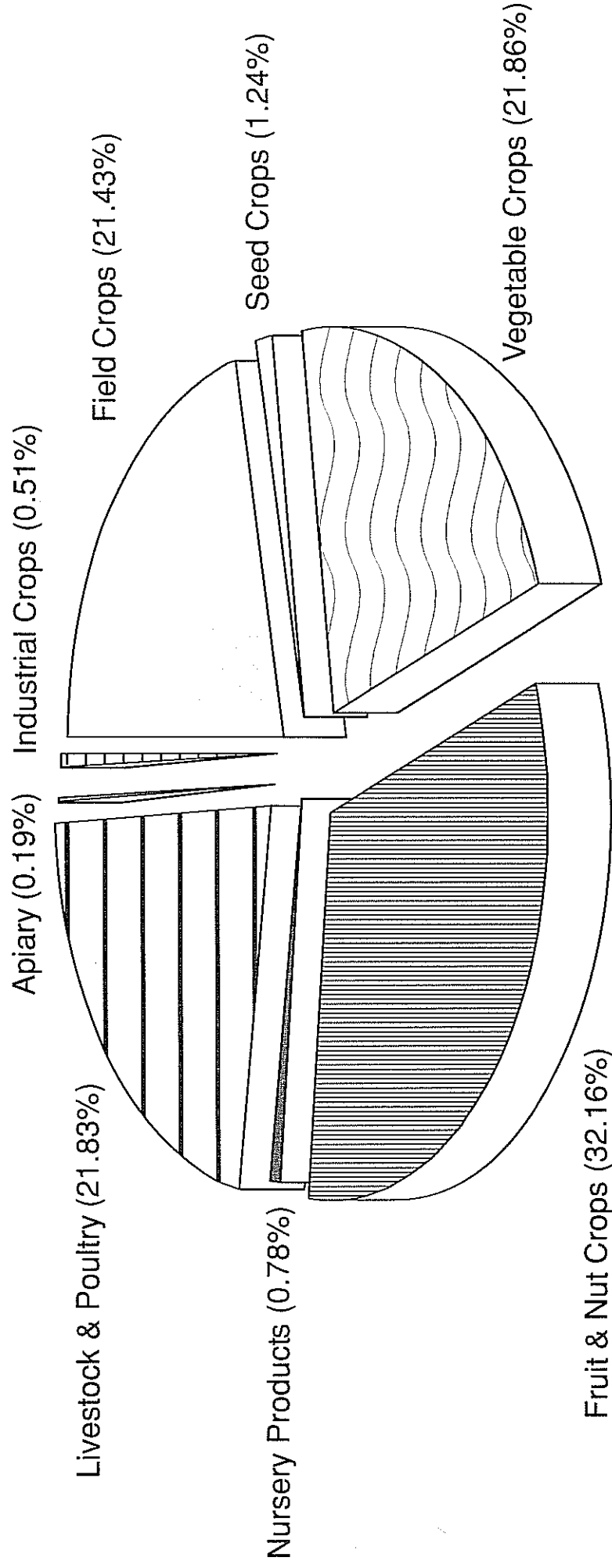
OVER A TWENTY YEAR SPAN



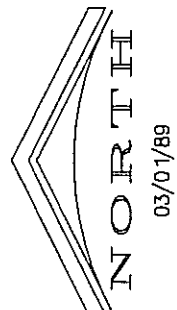
1975 through 1994

RELATIONSHIP IN TERMS OF TOTAL VALUE

CROP REPORT YEAR 1994



TOTAL VALUE \$3,084,870,800





Department of Agriculture

Cosmo C. Insalaco
Agricultural Commissioner
Sealer of Weights & Measures

Ann M. Veneman, Secretary
California Department of Food and Agriculture

The Honorable Board of Supervisors
County of Fresno

Deran Koligian, Chairman
Sharon Levy
Stan Oken
Tom Perch
Doug Vagim

William H. Randolph
County Administrative Officer

I am pleased to submit the 1995 Fresno County Agricultural Crop and Livestock Report. This annual compilation presents statistical data pertaining to the acreage, yield, and gross value of Fresno County agricultural products.

The total gross production value of Fresno County agricultural commodities in 1995 was \$3,174,486,300. This represents a 2.90 percent increase from the 1994 gross production values.

It must be emphasized that the values presented in this report reflect gross values only, and do not in any manner reflect net income or loss to producers. The unusually severe spring storms that battered Fresno County resulted in moderate to complete crop losses to growers in affected areas.

Agriculture continues as the major industry in Fresno County and is a driving force in the county's economy. Every dollar received by Fresno County producers results in the economic extension benefit of three and one-half dollars to the total economy of the county.

I sincerely appreciate the professional and dedicated work performed by Deputy Agricultural Commissioner/Sealer Dennis C. Plann, Supervising Agricultural/Standards Specialist Bruce Clayton, Agricultural/Standards Specialists Scotti Walker and Don Takanishi, as well as the rest of my staff at the Department of Agriculture for the preparation of this report.

My thanks to the many individuals, related agencies, and members of the agricultural industry for their contributions in the compilation of this report.

Best Regards,

A handwritten signature in cursive script, appearing to read "Cosmo C. Insalaco".

Cosmo C. Insalaco
Agricultural Commissioner/Sealer

"Cultivators of the earth are the most valuable citizens. They are the most vigorous, the most independent, the most virtuous, and they are tied to their country, and wedded to its liberty and interests, by the most lasting bonds."

Thomas Jefferson

"Of all the occupations from which gain is secured, there is none better than agriculture, nothing more productive, nothing sweeter, nothing more worthy of a free man."

Marcus Tullius Cicero

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FRESNO COUNTY'S 10 LEADING CROPS

Crop	1995 Rank	1995 Dollar Value	1994 Rank	1985 Rank	1975 Rank
COTTON	1	497,666,000	1	2	1
GRAPES	2	483,893,000	2	1	2
POULTRY	3	356,246,000	*	*	*
TOMATOES	4	263,551,000	3	4	3
MILK	5	171,127,000	4	5	5
HEAD LETTUCE	6	143,126,000	7	14	18
ALMONDS	7	113,781,000	6	17	23
CATTLE & CALVES	8	107,664,000	5	3	4
NECTARINES	9	100,240,000	10	10	15
ORANGES	10	<u>93,324,000</u>	9	9	12
TOP TEN TOTAL		\$ 2,330,618,000			

* Not previously combined for ranking purposes

1995 Highlights in Retrospect

January:

Rain stopped most field work; flooded fields were being drained and pumped. Grape growers were pruning and tying vines when weather permitted. Most fruit trees started to show early bud development. Spring lettuce fields were being thinned and treated to control worms and mildew.

February:

Wheat and barley fields were treated for weeds. Early varieties of apricot, nectarine, and plum trees were in bloom. Stone fruit growers were treating their orchards to prevent blossom rot. Bee hives were moved into plum orchards. The tops of strawberry plants were cut back so that plastic could be placed over the rows to reduce weed problems and keep the berries off the ground. Cattle were moved out of feed lots and onto rangeland.

March:

A storm that dropped 4.17 inches of rain at the Fresno Air Terminal on March 11 and 12 caused \$12,667,000 in damage to agricultural crops. Most field work stopped as growers waited for the soil to dry. Almond trees were in bloom. Grapes, persimmons, apples, and stone fruit started to leaf out. Sweet potato growers finished planting hot beds and were preparing and fumigating fields before planting. The head lettuce and asparagus harvests started.

April:

Rice growers were getting their fields ready to plant. Cotton planting had been slowed by cool temperatures and intermittent showers. Growers were thinning fruit on peach, plum, nectarine, and apricot trees. Apple, quince, and navel orange trees were in bloom. The valencia orange harvest started. Beekeepers were moving hives into citrus groves and apple orchards. Melons and sweet corn were planted. A levee along the north fork of the Kings River broke and flooded 1,787 acres of crop land, causing \$1,824,000 worth of damage.

May:

A thunder storm that moved through the east side of the county on May 6 and dropped .67 inches of rain, produced hail the size of small marbles and caused \$16,793,000 in damage to fruit and nut crops, grapes, citrus, and strawberries. Barley and wheat fields were drying in preparation for harvest. Growers finished planting cotton. The nectarine, peach, plum, and cherry harvests had started. Sugar beet, seed alfalfa, and cotton fields were weeded. Sweet potatoes were planted. The cherry harvest started.

June:

Thursday, June 15, an intense rain and hail storm caused over \$25,000,000 in damage to agricultural crops in Fresno County. Wheat straw was baled. Rice fields were treated with herbicides. Cotton was maturing slowly because of cool weather. Seed alfalfa and safflower were in bloom. A few growers were harvesting sugar beets. The stone fruit harvest was in full production. Melons were planted, thinned, and irrigated. Onions were boxed and bagged.

July:

Cotton was in bloom. Alfalfa hay fields were cut, windrowed, and baled. Safflower fields were drying in preparation for harvest. The Asian pear harvest started. Growers planted blackeye beans. Fresh market tomatoes were harvested. The grape, wheat, watermelon, honeydew, and cantaloupe harvests started. Strawberry beds were disced.

August:

Raisin grapes were put down on trays to dry. Fall lettuce fields were bedded-up and preirrigated in preparation for planting. The fig, almond, and pomegranate harvests started. Grape growers were irrigating their vineyards and treating their vines to control leaf hoppers, leaf rollers, and mildew. Growers were getting ground ready to plant fall grain crops.

September:

Rice growers were draining water from their fields in preparation for harvest. Cotton defoliation had started. Blackeye bean fields were windrowed and harvested. The raisin harvest was in full swing, and the walnut harvest had just started.

October:

The rice, cotton, and fall lettuce harvests started. Growers were planting next year's garlic and onion crops. The raisin harvest was completed. The navel orange harvest started; a few valencias were still being picked.

November:

The rice harvest was completed. Almond, fig, stone fruit, and walnut orchards were pruned. Growers were planting sugar beets, broccoli, and spring lettuce.

December:

The cotton harvest was completed. A few table grapes were still being harvested. Peach, plum, and nectarine orchards were pruned. A few tree fruit growers started to apply dormant sprays.

FIELD CROPS: Total gross returns for all field crops decreased by \$17,415,000, from \$661,062,000 to \$643,647,000, and the harvested acreage was up from 1,471,940 acres to 1,500,900 acres. Cotton, the county's most valuable crop, decreased in value by \$5,571,000, from \$503,237,000 to \$497,666,000. Upland cotton acreage was down 7,000 acres while pima plantings more than doubled, increasing from 22,800 acres to 55,300 acres. The value of the dry bean crop increased slightly from \$15,114,000 to \$16,611,000. Barley plantings were up 700 acres, but the average yield was down .25 tons per acre, resulting in a \$205,000 decrease in crop value. The value of the alfalfa hay crop was down \$11,184,000 because yields decreased by 15.46 percent and the price paid to growers fell \$2.00 per ton. The gross values of the rice, safflower, and sugar beet crops were up. The value of the wheat crop fell by 26.70 percent, from \$10,452,000 to \$7,661,000, as a result of a decrease in both acreage and yield.

SEED CROPS: Total gross returns for seed crops decreased by \$8,506,000, from \$38,398,000 to \$29,892,000; the harvested acreage was down 3,785 acres. The returns for certified alfalfa were down by 14.47 percent, from \$20,169,000 to \$17,250,000, while non-certified alfalfa was down \$8,092,000 to \$2,656,000. There was no certified barley produced in Fresno County during the 1995 season. The gross returns for non-certified barley were down by \$43,000 to \$740,000. Vegetable seed returns increased nearly four times, from \$1,101,000 to \$5,021,000, with a 26.05 percent increase in planted acreage.

VEGETABLE CROPS: The total gross returns for all vegetable crops increased by 8.96 percent, from \$674,231,000 to \$734,669,000. The value of the spring head lettuce crop increased by 223.45 percent, or \$75,031,000, from \$33,578,000 to \$108,609,000. The value of the fall head lettuce crop was down \$29,418,000. The total gross returns for cantaloupe increased from \$47,476,000 to \$58,870,000 as a result of increases in price and yield. Watermelon acreage increased 72.72 percent, from 550 acres to 950 acres, and the value of the crop was up by \$2,666,000. The value of fresh onions decreased by \$5,489,000 as a result of a reduction in the price growers received and the tons per acre produced. Tomatoes, number four on the county's top ten list of commodities, was down 7.32 percent, from \$284,379,000 to \$263,551,000. The value of the sweet corn crop was down \$330,000, because of lower yields and prices.

FRUIT AND NUT CROPS: Total gross returns for all fruit and nut crops increased by 6.04 percent or \$59,971,300, from \$992,109,900 to \$1,052,081,200. Almonds, up in value by \$7,292,000, moved from number six to number seven on the county's top ten list of crops. Gross returns for apples fell 2.65 percent, due to decreases in production per acre and price. Apricot yields decreased 2.94 tons per acre; the total gross value of the crop increased by \$604,000 as a result of a \$369 increase in the price paid per ton. Lemon production increased 7.65 tons per acre and the value of the fresh market crop was up by \$2,101,000, to \$4,232,000. Oranges increased in value by \$8,108,000, to \$93,324,000, and remained on the list of top ten crops. Grapes remained in second place on the county's top ten list of the most valuable crops, but decreased in value by \$6,869,000. Even though the yield per acre for nectarines was down 2.91 tons, an increase in harvested acreage and price per ton resulted in a 24.90 percent increase in total crop value. The value for cling and freestone peaches was up as a result of increases in harvested acreage and price per ton. The value of the plum crop increased from \$65,730,000 to \$69,359,000. Strawberry plantings decreased by 130 acres, but yields increased 3.02 tons per acre, resulting in a crop value of \$4,667,000.

NURSERY PRODUCTS: The gross returns from sales of nursery products nearly doubled, up from \$23,945,000 to \$47,819,000. The majority of the increase was in other nursery products, which include bareroot fruit and nut trees, budwood, citrus trees, grape rootings and vegetable plants. The value of Christmas trees sold in the county increased slightly from \$104,000 to \$108,000, while herbaceous ornamentals decreased by \$239,000.

LIVESTOCK AND POULTRY: Total gross returns decreased by \$23,042,000 from \$493,670,000 to \$470,628,000. Poultry, combined for ranking for the first time, is third on the county's top ten list, with a value of \$356,246,000. Cattle and calves value was down \$9,214,000 from last year and fell from fifth to eighth place. Hog production was up slightly, but the total value was down \$404,000 due to a reduction in price of \$7.08 per cwt. The number of sheep and lambs sold was down by 3,300 head. The value of ostrich breeding stock sold decreased by \$206,000.

LIVESTOCK AND POULTRY PRODUCTS: Total gross returns for livestock and poultry products increased by \$1,795,000 to total \$181,400,000. Milk dropped from fourth to fifth place, although the value increased by \$2,473,000 to \$171,127,000. Wool prices increased \$0.38 per pound and gross returns were up \$172,000. The value of manure produced in the county was down by 4.28 percent to \$3,871,000.

APIARY PRODUCTS AND POLLINATION SERVICES: Gross returns for apiary products and pollination services increased by \$1,005,700, from \$6,015,000 to \$7,020,700. The price for honey increased from \$.47 per pound to \$.61 per pound. The total value of pollination services, which includes alfalfa seed, tree fruit, and cantaloupe acreage, increased by \$904,000 to \$5,991,000.

INDUSTRIAL CROPS: The total gross returns of industrial crops fell by 53.71 percent, or \$8,505,500. The number of board feet of lumber that was harvested decreased by 53.73 percent, the value was down by slightly more than half to \$7,280,000.

FIELD CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Barley	1995	13,700	2.14	29,300	ton	\$ 114.00	\$ 3,340,000
	1994	13,000	2.39	31,100	ton	\$ 114.00	\$ 3,545,000
Beans, dry ^a	1995	25,500	.96	24,500	ton	678.00	16,611,000
	1994	22,000	1.04	22,900	ton	660.00	15,114,000
Corn							
Grain	1995	1,400	4.45	6,230	ton	118.00	735,000
	1994	3,100	4.42	13,700	ton	108.00	1,480,000
Silage	1995	20,000	22.95	459,000	ton	21.00 ^b	9,639,000
	1994	18,500	27.08	501,000	ton	22.00 ^b	11,022,000
Cotton, Upland							
Lint	1995	343,000	1,230 ^c	844,000 ^d	bale	.86 ^e	365,823,000
	1994	350,000	1,490 ^c	1,043,000 ^d	bale	.79 ^e	415,281,000
Seed	1995			307,000	ton	170.00	52,190,000
	1994			372,000	ton	155.00	57,660,000
Cotton, Pima							
Lint	1995	55,300	1,040 ^c	115,000 ^d	bale	1.24 ^e	71,870,000
	1994	22,800	1,123 ^c	51,200 ^d	bale	1.03 ^e	26,579,000
Seed	1995			47,600	ton	155.00	7,378,000
	1994			20,500	ton	142.00	2,911,000
Hay							
Alfalfa	1995	69,000	7.71	532,000	ton	113.00	60,116,000
	1994	68,000	9.12	620,000	ton	115.00	71,300,000
Other ^f	1995	11,300	3.15	35,600	ton	81.00	2,884,000
	1994	10,900	2.78	30,300	ton	83.00	2,515,000
Pasture and Range							
Field	1995	19,000			acre	17.00	323,000
Stubble ^g	1994	31,700			acre	16.00	507,000

FIELD CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Pasture and Range (continued)							
Irrigated Pasture	1995	40,000			acre	\$ 110.00	\$ 4,400,000
	1994	40,000			acre	\$ 110.00	\$ 4,400,000
Grazing Range	1995	850,000			acre	7.00	5,950,000
	1994	850,000			acre	7.00	5,950,000
Rice	1995	6,500	3.65	23,700	ton	156.00	3,697,000
	1994	6,200	3.52	21,800	ton	157.00	3,423,000
Safflower	1995	10,900	1.53	16,700	ton	318.00	5,311,000
	1994	10,600	1.65	17,500	ton	290.00	5,075,000
Sugar Beets	1995	23,000	28.91	665,000	ton	36.00	23,940,000
	1994	22,600	28.58	646,000	ton	35.02	22,623,000
Wheat	1995	25,500	2.26	57,600	ton	133.00	7,661,000
	1994	28,800	3.13	90,100	ton	116.00	10,452,000
Other ^h	1995	5,800					1,779,000
	1994	<u>5,440</u>					<u>1,225,000</u>
Total	1995	1,500,900					\$643,647,000
	1994	1,471,940					\$661,062,000

a Includes black turtle, blackeye beans, garbanzo, pinto, red kidney, and small white beans

b Field price

c Pounds of lint per acre

d 500 pounds lint per bale

e Price per pound, 504 pounds gross weight per bale

f Includes hay from barley, oats, sudan, and wheat

g Not included in total acreage figures; includes acreage from alfalfa hay and seed alfalfa, barley, broccoli, melons, oats, and wheat

h Includes alfalfa greenchop, barley silage, oats, oat silage, straw, wheat silage, and winter forage

SEED CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Alfalfa	1995	20,000	575	11,500,000	lb.	\$1.50	\$17,250,000
Certified	1994	14,900	940	14,006,000	lb.	\$1.44	\$20,169,000
Non-Certified	1995	3,400	625	2,125,000	lb.	1.25	2,656,000
	1994	9,670	855	8,268,000	lb.	1.30	10,748,000
Alfalfa Seed	1995	23,400		13,625,000	lb.		19,906,000
Total	1994	24,570		22,274,000	lb.		30,917,000
Barley	1995	0	0	0	lb.		0
Certified	1994	285	5,300	1,511,000	lb.	.10	151,000
Non-Certified	1995	1,480	5,000	7,400,000	lb.	.10	740,000
	1994	1,740	5,000	8,700,000	lb.	.09	783,000
Cotton ^a	1995	6,000		4,500,000	lb.	.09	405,000
	1994	8,700		7,327,000	lb.	.11	806,000
Vegetable ^b	1995	1,500					5,021,000
	1994	1,190					1,101,000
Wheat	1995	3,280	6,000	19,680,000	lb.	.08	1,574,000
Certified	1994	6,640	6,000	39,840,000	lb.	.08	3,187,000
Non-Certified	1995	2,840	5,300	15,052,000	lb.	.07	1,054,000
	1994	2,640	5,300	13,992,000	lb.	.07	979,000
Other ^c	1995	1,940					1,192,000
	1994	<u>1,160</u>					<u>474,000</u>
Total	1995	34,440					\$29,892,000
	1994	38,225*					\$38,398,000

^a Included in field crop acreage

^b Lettuce, onion, pepper, and tomato

^c Certified garbanzo beans and other miscellaneous beans, non-certified oats, certified rice, and sudan grass

* Revised

VEGETABLE CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Bell Peppers ^a	1995	3,000	11.90	35,700	ton	\$365.00	\$ 13,031,000
	1994	1,650	11.09	18,300	ton	\$495.00	\$ 9,059,000
Broccoli ^a	1995	7,300	6.82	49,800	ton	370.00	18,426,000
	1994	5,500	5.18	28,500	ton	511.00	14,564,000
Eggplant ^b	1995	600	18.17	10,900	ton	605.00	6,595,000
	1994	760	17.37	13,200	ton	515.00	6,798,000
Garlic ^a	1995	22,900	8.38	192,000	ton	468.00	89,856,000
	1994	19,800	8.79	174,000	ton	550.00	95,700,000
Head Lettuce							
Naked				39,900	ton		
Wrapped				72,000	ton		
Bulk				40,000	ton		
Spring	1995	8,000	18.99	151,900	ton	715.00	108,609,000
Season Total	1994	9,620	17.11	164,600	ton	204.00	33,578,000
Naked				53,800	ton		
Wrapped				73,600	ton		
Bulk				41,800	ton		
Fall	1995	10,200	16.59	169,200	ton	204.00	34,517,000
Season Total	1994	10,200	18.27	186,400	ton	343.00	63,935,000
Head Lettuce	1995	18,200		321,100			143,126,000
Totals	1994	19,820		351,000			97,513,000
Melons							
Cantaloupe	1995	26,900	10.78	290,000	ton	203.00	58,870,000
	1994	28,000	10.21	286,000	ton	166.00	47,476,000
Honeydew	1995	4,500	8.53	38,400	ton	237.00	9,101,000
	1994	4,200	15.95	67,000	ton	190.00	12,730,000

VEGETABLE CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Melons (continued)							
Mixed Melons ^c	1995	2,000	7.05	14,100	ton	\$ 257.00	\$ 3,624,000
	1994	2,000	12.80	25,600	ton	\$ 248.00	\$ 6,349,000
Watermelon	1995	950	23.68	22,500	ton	162.00	3,645,000
	1994	550	20.00	11,000	ton	89.00	979,000
Onions							
Fresh	1995	4,000	20.45	81,800	ton	196.00	16,033,000
	1994	4,000	25.50	102,000	ton	211.00	21,522,000
Processed	1995	9,600	18.96	182,000	ton	76.00	13,832,000
	1994	10,500	18.29	192,000	ton	76.00	14,592,000
Oriental Vegetables ^d	1995	1,520	13.03	19,800	ton	513.00	10,157,000
	1994	1,700	13.12	22,300	ton	515.00	11,485,000
Squash ^e	1995	750	8.40	6,300	ton	453.00	2,854,000
	1994	770	12.47	9,600	ton	393.00	3,773,000
Sweet Corn	1995	3,100	10.90	33,800	ton	260.00	8,788,000
	1994	2,800	11.71	32,800	ton	278.00	9,118,000
Tomatoes							
Fresh							
Cherry	1995	600	8.50	5,100	ton	582.00	2,968,000
	1994	850	17.76	15,100	ton	622.00	9,392,000
Standard	1995	9,000	16.11	145,000	ton	357.00	51,765,000
	1994	9,700	15.36	149,000	ton	422.00	62,878,000
Processed	1995	100,000	38.67	3,867,000	ton	54.00	208,818,000
	1994	100,000	41.59	4,159,000	ton	51.00	212,109,000

VEGETABLE CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Other ^f	1995	15,750					\$ 73,180,000
	1994	<u>12,690</u> *					\$ <u>38,194,000</u> *
Total	1995	230,670					\$734,669,000
	1994	225,290					\$674,231,000

a Includes fresh and processed

b Includes Chinese, globe, Italian and Japanese varieties

c Includes casaba, crenshaw, Juan Canary, Persian, Santa Claus, and Sharlyn

d Includes bittermelon, baby bok choy, Shanghai bok choy, bok choy, daikon, dunqua, gai choy, gailon, gobo, lemon grass, lo bok, long beans, moqua, napa, opo, sinqua, sugar peas, taro, and yu choy

e Includes soft and hard types

f Includes artichoke; arugula; asparagus; basil; fava beans; green snap beans; baby and large lima beans; beets; cabbage; carrots; celery; red and Swiss chard; cilantro; collards; cornnuts; cucumber; dandelion greens; dill; kale; kohlrabi; leeks; leaf and romaine lettuce; mint; mushrooms; mustard greens; okra; green onions; **organic:** carrots, globe eggplant, garlic (processed), leaf lettuce, onions (processed), chili peppers, zucchini squash, and tomatoes (processed); parsley; parsnips; peas; chili peppers; potatoes; **processed:** green snap beans, cauliflower, and honeydews; pumpkins; radishes; rutabagas; spinach; sugarcane; sunchokes; sweet potatoes/yams; tarragon; tomatilloes; turnips; and turnip greens

* Revised

FRUIT AND NUT CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Almonds	1995	41,568	.55	22,900	ton	\$4,800.00	\$ 109,920,000
	1994	42,016	.92	38,700	ton	\$2,640.00	\$ 102,168,000
Almond Hulls	1995			49,500	ton	78.00	3,861,000
	1994			69,700	ton	62.00	4,321,000
Apples ^a	1995	3,506	9.16	32,100	ton	677.00	21,732,000
	1994	3,206	9.79	31,400	ton	711.00	22,325,000
Apricots	1995	1,279	5.08	6,500	ton	1,087.00	7,066,000
	1994	1,122	8.02	9,000	ton	718.00	6,462,000
Citrus							
Lemons	1995	938	14.23				
	1994	881	6.58				
Fresh	1995			8,250	ton	513.00	4,232,000
	1994			3,700	ton	576.00	2,131,000
Processed	1995			5,100	ton	28.00	143,000
	1994			2,100	ton	53.81	113,000
Oranges							
Navel	1995	19,389	11.09				
	1994	17,634	11.57				
Fresh	1995			165,000	ton	400.00	66,000,000
	1994			162,000	ton	397.00	64,314,000
Processed	1995			50,000	ton	23.00	1,150,000
	1994			42,000	ton	24.00	1,008,000
Valencia	1995	5,418	13.60				
	1994	5,123	12.34				
Fresh	1995			53,700	ton	474.00	25,454,000
	1994			49,900	ton	392.00	19,561,000
Processed	1995			20,000	ton	36.00	720,000
	1994			13,300	ton	25.04	333,000
Oranges Total	1995	24,807					93,324,000
	1994	22,757					85,216,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Citrus, other ^b	1995	621	11.14				
	1994	593	14.00				
Fresh	1995			5,480	ton	\$ 727.00	\$ 3,984,000
	1994			6,540	ton	\$ 551.00	\$ 3,604,000
Processed	1995			1,440	ton	14.00	20,200
	1994			1,760	ton	17.00	29,900
Figs, dried ^a	1995	2,842	1.03	2,930	ton	1,216.00	3,563,000
	1994	2,790	1.09	3,040	ton	1,228.00	3,733,000
Grapes							
Raisin Varieties	1995	167,792	10.11				
	1994	168,671	9.52				
Canned	1995			7,000	ton	237.00	1,659,000
	1994			9,000	ton	237.00	2,133,000
Crushed	1995			267,000	ton	165.00	44,055,000
	1994			95,200	ton	126.00	11,995,000
Dried	1995			277,000	ton	930.00	257,610,000
	1994			317,000	ton	933.00	295,761,000
Fresh	1995			35,100	ton	837.00	29,379,000
	1994			73,400	ton	780.00	57,252,000
Juice	1995			2,800	ton	251.00	703,000
	1994			2,300	ton	440.00	1,012,000
Table Varieties	1995	10,580	9.87				
	1994	10,142	7.87				
Crushed	1995			25,700	ton	164.00	4,215,000
	1994			5,400	ton	110.00	594,000
Fresh	1995			78,700	ton	905.00	71,224,000
	1994			74,400	ton	946.00	70,382,000
Wine Varieties	1995	33,659	10.13				
	1994	34,575	8.21				
Crushed	1995			335,000	ton	218.00	73,030,000
	1994			281,000	ton	179.00	50,299,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Grapes (continued)							
Juice	1995			5,900	ton	\$ 342.00	\$ 2,018,000
	1994			2,900	ton	\$ 460.00	\$ 1,334,000
Grapes Total	1995	212,031					483,893,000
	1994	213,388					490,762,000
Kiwi Fruit	1995	429	7.00	3,000	ton	1,286.00	3,858,000
	1994	427	6.93	2,960	ton	1,229.00	3,638,000
Nectarines	1995	16,230	6.90	112,000	ton	895.00	100,240,000
	1994	13,051	9.81	128,000	ton	627.00	80,256,000
Olives, canned	1995	1,377	3.66	5,040	ton	648.00	3,266,000
	1994	1,157	4.55	5,260	ton	470.00	2,472,000
Peaches							
Cling	1995	1,706	17.00	29,000	ton	205.00	5,945,000
	1994	1,644	18.00	29,600	ton	182.00	5,387,000
Freestone	1995	13,554	7.89	107,000	ton	776.00	83,032,000
	1994	12,729	10.37	132,000	ton	559.00	73,788,000
Peaches Total	1995	15,260					88,977,000
	1994	14,373					79,175,000
Pears, Asian and European	1995	658	11.22	7,380	ton	818.00	6,037,000
	1994	676	6.63	4,480	ton	913.00	4,090,000
Persimmons	1995	414	4.23	1,750	ton	1,200.00	2,100,000
	1994	392	7.55	2,960	ton	1,257.00	3,721,000
Pistachios	1995	3,453	1.75	6,040	ton	2,282.00	13,783,000
	1994	3,645	.67	2,440	ton	2,320.00	5,661,000
Plums	1995	16,602	2.91	48,300	ton	1,436.00	69,359,000
	1994	16,169	6.49	105,000	ton	626.00	65,730,000
Pomegranates	1995	974	8.32	8,100	ton	796.00	6,448,000
	1994	966	7.73	7,470	ton	755.00	5,640,000
Prunes °	1995	1,784	5.09	9,080	ton	800.00	7,264,000
	1994	1,600	4.14	6,620	ton	1,225.00	8,110,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Strawberries ^a	1995	520	11.73	6,100	ton	\$ 765.00	\$ 4,667,000
	1994	650	8.71	5,660	ton	\$ 596.00	\$ 3,373,000
Walnuts	1995	3,013	1.89	5,700	ton	1,460.00	8,322,000
	1994	2,969	1.64	4,870	ton	1,067.00	5,196,000
Other ^d	1995	795					6,022,000
	1994	<u>818</u>					<u>4,183,000</u>
Total	1995	349,101					\$ 1,052,081,200
	1994	343,646					\$ 992,109,900

a Includes fresh and processed.

b Includes blood oranges, grapefruit, mandarin/tangerines, minneola/tangelos, and pummelos

c Includes dried and processed

d Includes avocados, boysenberries, blackberries, cherries, fresh figs, substandard figs, jujubes, olive oil, olallieberries, processed apricots, processed grape leaves, processed nectarines, processed peaches, processed plums, pecans, and quince

NURSERY PRODUCTS

ITEM	YEAR	ACRES	QUANTITY	UNIT	VALUE
Christmas Trees	1995		66	5,400 trees	\$ 108,000
	1994		55	5,325 trees	\$ 104,000
Herbaceous Ornamentals ^a	1995		20	163,000 b	814,000
	1994		15	792,000 b	1,053,000
Ornamental Trees and Shrubs	1995		48	1,111,000 plants	5,310,000
	1994		48	580,000 plants	4,551,000
Other ^c	1995		317	60,345,000 plants	41,587,000
	1994		<u>560</u>	39,906,000 plants	<u>18,237,000</u>
Total	1995		451		\$47,819,000
	1994		678		\$23,945,000

a Includes cut flowers, cut greens, potted plants, bedding plants, and herbaceous perennials

b Includes flats, dozens, cans, and single plants

c Includes bareroot fruit and nut trees, budwood, citrus trees, grape rootings, and vegetable plants

LIVESTOCK AND POULTRY

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Cattle and Calves						
Beef						
Breeding Stock						
Common	1995	1,380		head	\$ 490.00	\$ 676,000
	1994	1,200		head	\$ 600.00	\$ 720,000
Registered	1995	350		head	1,020.00	357,000
	1994	300		head	1,247.00	374,000
Feeders	1995	145,000	290,000	cwt.	66.83	19,381,000
	1994	160,000	320,000	cwt.	75.24	24,077,000
Calves	1995	24,300	72,800	cwt.	74.00	5,387,000
	1994	21,000	63,000	cwt.	81.87	5,158,000
Slaughter Stock						
	1995	188,000	903,000 ^a	cwt.	63.11	56,988,000
	1994	178,000	853,000 ^a	cwt.	68.02	58,022,000
Dairy						
Breeding Stock	1995	9,400		head	1,170.00	10,998,000
	1994	9,200		head	1,250.00	11,500,000
Cull Stock	1995	22,500	292,000	cwt.	37.50	10,950,000
	1994	22,000	286,000	cwt.	45.61	13,044,000
Calves	1995	18,000	54,000	cwt.	54.20	2,927,000
	1994	17,700	53,100	cwt.	75.00	3,983,000
Cattle and Calves Total	1995					107,664,000
	1994					116,878,000
Hogs and Pigs						
Feeder Pigs and Slaughter Stock	1995	29,800	60,400	cwt.	40.02	2,417,000
	1994	29,500	59,900	cwt.	47.10	2,821,000

LIVESTOCK AND POULTRY (continued)

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Sheep and Lambs						
Slaughter Stock						
Lambs	1995	48,700	46,300	cwt.	\$ 79.81	\$ 3,695,000
	1994	51,300	48,700	cwt.	\$ 80.00	\$ 3,896,000
Sheep	1995	12,400	17,400	cwt.	25.00	435,000
	1994	13,100	18,300	cwt.	35.52	650,000
Turkeys	1995	4,612,000	97,129,000	lb.	.71	68,962,000
	1994	4,663,000	102,353,000	lb.	.61	62,435,000
Ostriches	1995	63				52,000
	1994	103				258,000
Other ^b	1995					287,403,000
	1994					<u>306,732,000</u>
Total	1995					\$470,628,000
	1994					\$493,670,000

a Net gain

b Includes chickens, chicks, fryers, old breeder birds, and roasters; fish; game birds; squab; turkey poults and old turkey breeder birds; cull milk goats and kid goats

LIVESTOCK AND POULTRY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
Manure	1995	526,000	ton	\$ 7.36	\$ 3,871,000
	1994	548,000	ton	\$ 7.38	\$ 4,044,000
Milk					
Manufacturing	1995	37,900	cwt.	10.37	393,000
	1994	45,000	cwt.	10.12	455,000
Market ^a	1995	14,795,000	cwt.	11.54	170,734,000
	1994	14,626,000	cwt.	11.50	168,199,000
Wool	1995	498,000	lb.	1.04	518,000
	1994	524,000	lb.	.66	346,000
Eggs					
Chicken & Turkey ^b	1995	1,196,000	dozen	4.92	5,884,000
	1994	1,396,000	dozen	4.70	<u>6,561,000</u>
Total	1995				\$181,400,000
	1994				\$179,605,000

a Includes cow and goat milk

b Includes market eggs and hatching eggs

APIARY PRODUCTS AND POLLINATION SERVICES

ITEM	YEAR	PRODUCTION TOTAL	UNIT	VALUE	
				PER UNIT	TOTAL
Apiary Products ^a					
Honey	1995	1,568,000	lb.	\$.61	\$ 956,000
	1994	1,755,000	lb.	\$.47	\$ 825,000
Beeswax	1995	41,900	lb.	1.76	73,700
	1994	71,600	lb.	1.44	103,000
Pollination ^b					
Alfalfa Seed	1995	60,600	colony	21.75	1,318,000
	1994	49,900	colony	19.44	970,000
Tree Fruit ^c	1995	116,900	colony	35.28	4,124,000
	1994	104,300	colony	33.09	3,451,000
Cantaloupe	1995	37,500	colony	14.64	549,000
	1994	45,400	colony	14.67	<u>666,000</u>
Total	1995				\$ 7,020,700
	1994				\$ 6,015,000

a Reflects bee colonies registered in Fresno County by commercial and semi-commercial beekeepers:
1995 - 46,536 colonies; 1994 - 42,327 colonies

b Reflects value of pollination by all bee colonies located in Fresno County for pollination services during 1995. Estimated total colonies: 102,000

c Almonds, cherries, and plums

INDUSTRIAL CROPS

CROP	YEAR	PRODUCTION	UNIT (a)	VALUE (b)
Timber	1995	19,200,000	board feet	\$ 7,280,000
	1994	41,500,000	board feet	\$ 15,760,000
Fire Wood	1995	9,300	ords	49,400
	1994	14,400	ords	<u>74,900</u>
Total	1995			\$ 7,329,400
	1994			\$ 15,834,900

a Board feet is the quantity of timber cut and sealed

b Value of timber immediately prior to cutting

**GROWTH IN FRESNO COUNTY AGRICULTURE AS INDICATED BY GROSS PRODUCTION
VALUE OF AGRICULTURAL PRODUCTS OVER A TWENTY - ONE YEAR SPAN**

1975 - \$1,026,356,000*	1986 - \$2,125,721,200*
1976 - 1,178,373,000*	1987 - 2,264,044,000*
1977 - 1,110,424,200*	1988 - 2,444,732,600*
1978 - 1,241,033,100*	1989 - 2,607,648,800*
1979 - 1,719,235,500	1990 - 2,949,484,000*
1980 - 2,002,448,900*	1991 - 2,552,305,040*
1981 - 1,905,289,240*	1992 - 2,635,447,400*
1982 - 1,855,733,500	1993 - 3,022,311,100*
1983 - 1,727,319,500	1994 - 3,084,870,800
1984 - 1,921,020,840*	1995 - 3,174,486,300
1985 - 2,054,060,400*	

SIX YEAR COMPARISON OF GROSS PRODUCTION VALUE IN FRESNO COUNTY

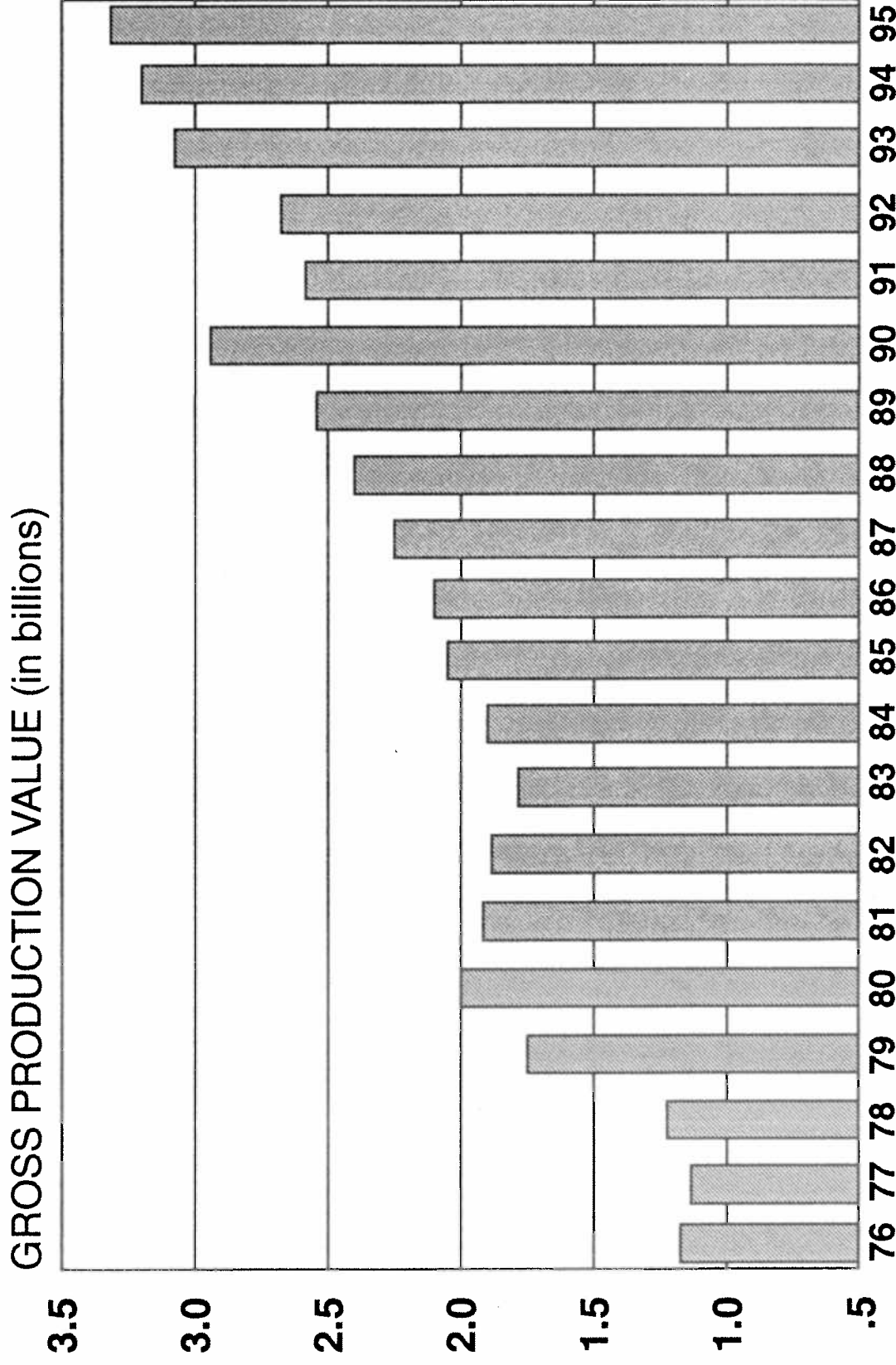
	1975	1985	1992	1993	1994	1995
Field Crops	\$340,540,000	\$545,842,000	\$549,162,000	\$607,058,000	\$661,062,000	\$643,647,000
Seed Crops	22,218,000	40,314,000	31,035,000	34,577,000	38,398,000	29,892,000
Vegetable Crops	182,264,000	343,493,000	453,325,000	609,714,000	674,231,000	734,669,000
Fruit & Nut Crops	282,320,000	684,976,400*	932,394,200*	1,010,509,400	992,109,900	1,052,081,200
Nursery Products	1,592,000	7,882,000	16,747,000	21,294,000*	23,945,000	47,819,000
Livestock & Poultry	194,880,000	420,329,000*	642,060,000*	724,953,000	673,275,000	652,028,000
Apiary	2,542,000*	6,029,000	5,303,000	6,052,000	6,015,000	7,020,700
Industrial Crops	+	5,195,000	5,421,200	8,153,700	15,834,900	7,329,400
TOTAL	\$1,026,356,000*	\$2,054,060,400*	\$2,635,447,400*	\$3,022,311,100*	\$3,084,870,800	\$3,174,486,300

*Revised

+Not reported

GROWTH OF FRESNO COUNTY AGRICULTURE

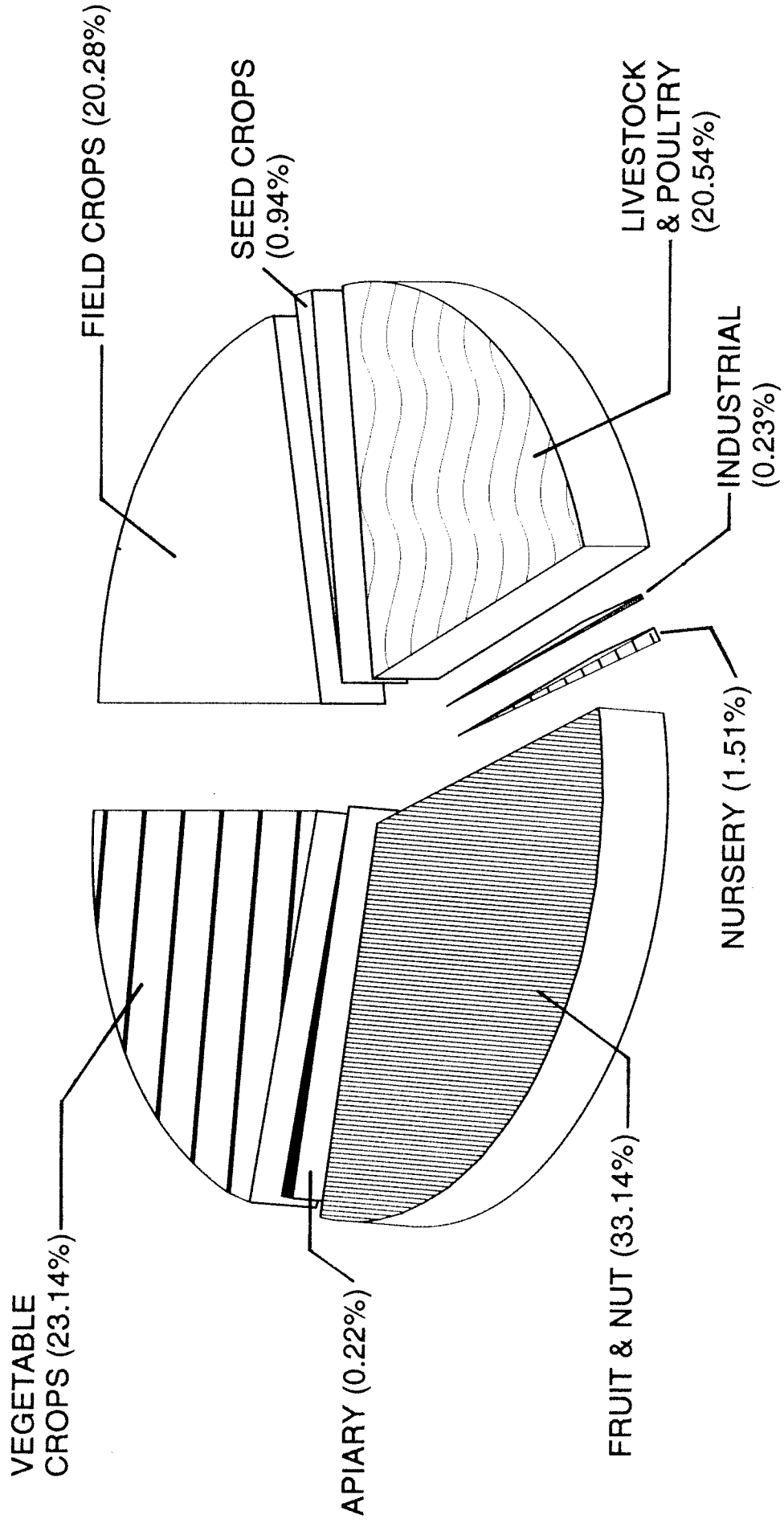
OVER A TWENTY YEAR SPAN



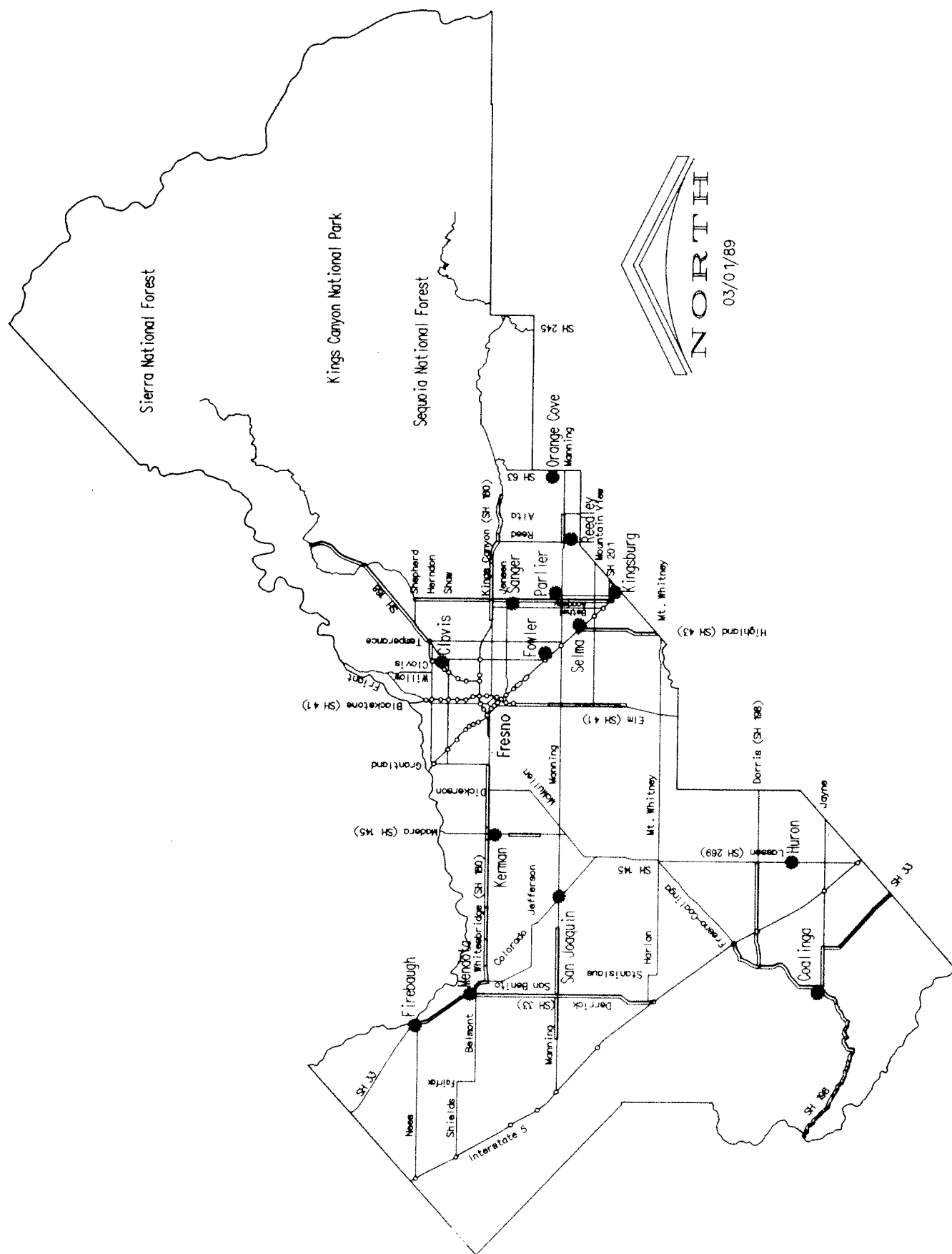
1976 through 1995

RELATIONSHIP IN TERMS OF TOTAL VALUE

CROP REPORT YEAR 1995



TOTAL VALUE \$3,174,486,300





Department of Agriculture

Cosmo C. Insalaco
Agricultural Commissioner
Sealer of Weights & Measures

Ann M. Veneman, Secretary
California Department of Food and Agriculture

The Honorable Board of Supervisors
County of Fresno

Stan Oken, Chairman
Juan Arambula
Deran Koligian

Sharon Levy
Tom Perch

William H. Randolph
County Administrative Officer

I am pleased to submit the 1996 Fresno County Agricultural Crop and Livestock Report. This annual compilation presents statistical data pertaining to the acreage, yield, and gross value of Fresno County agricultural products.

The total gross production value of Fresno County agricultural commodities in 1996 was \$3,324,885,800. This represents a 5.79 percent increase from the 1995 gross production values.

It must be emphasized that the values presented in this report reflect gross values only, and do not in any manner reflect net income or loss to producers. The unusually severe spring storms that battered Fresno County resulted in moderate to complete crop losses to growers in affected areas.

Agriculture continues as the major industry in Fresno County and is a driving force in the county's economy. Every dollar received by Fresno County producers results in the economic extension benefit of three and one-half dollars to the total economy of the county.

I sincerely appreciate the professional and dedicated work performed by Deputy Agricultural Commissioner/Sealer Dennis C. Plann, Supervising Agricultural/Standards Specialist Bruce Clayton, Agricultural/Standards Specialists Scotti Walker and Katherine C. de Contreras, as well as the rest of my staff at the Department of Agriculture for the preparation of this report.

My thanks to the many individuals, related agencies, and members of the agricultural industry for their contributions in the compilation of this report.

Best Regards,

A handwritten signature in cursive script, appearing to read "Cosmo C. Insalaco".

Cosmo C. Insalaco
Agricultural Commissioner/Sealer

"...no other occupation opens so wide a field for the profitable and agreeable combination of labor with cultivated thought as agriculture."

"Let us hope that by the best cultivation of the physical world, beneath and around us, and the intellectual and moral worlds within us, we shall secure an individual, social and political prosperity and happiness, whose course shall be onward and upward and which, while the earth endures, shall not pass away."

***Abraham Lincoln on Farming
September 30, 1859***

"Sometime in the future, when the accomplishments of the 20th century are recorded for posterity, it may finally be acknowledged that our greatest achievement by far has been the introduction of high-tech, high-yield agriculture. Measured in terms of benefit to human society, an adequate diet of nutritious, abundant, and affordable food eclipses all other developments of this most remarkable century. And all other wonderful breakthroughs probably could not have happened without a well-fed population."

Dixie Lee Ray

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FRESNO COUNTY'S 10 LEADING CROPS

Crop	1996 Rank	1996 Dollar Value	1995 Rank	1986 Rank	1976 Rank
GRAPES	1	555,341,000	2	1	2
COTTON	2	533,284,000	1	2	1
POULTRY	3	357,906,000	3	*	*
TOMATOES	4	257,177,000	4	4	5
MILK	5	199,302,000	5	5	4
ALMONDS	6	134,104,000	7	14	19
PEACHES	7	120,008,000	12	9	13
GARLIC	8	118,048,000	11	16	31
CATTLE & CALVES	9	117,802,000	8	3	3
NECTARINES	10	<u>109,200,000</u>	9	10	16
TOP TEN TOTAL		\$ 2,502,172,000			

* Not previously combined for ranking purposes

1996 Highlights in Retrospect

January:

Peach, plum, nectarine, apple, and pomegranate orchards were pruned. Grape growers were pruning and tying vines. Onion and garlic fields were irrigated. Apple and cherry rootstock was harvested. Strawberry fields were thinned. Processing tomatoes were planted.

February:

Wheat and barley fields were irrigated, fertilized, and treated to control weeds. Growers started to apply bloom spray to early varieties of nectarines. Buds were swelling in almond orchards. Bees were moved into almond and plum orchards.

March:

Rain had slowed most field work. Peaches, nectarines, plums, apricots, and almonds were in full bloom. Grape vines had started to leaf out. Cotton, melon, and tomato beds were being prepared for planting and were treated with herbicides to control weeds. Growers had started to plant cotton. The spring head lettuce harvest started.

April:

Cotton and melon planting was in full swing. A hail storm that moved through the Reedley and Kerman areas of the county caused \$8,467,000 in damage to almonds, apricots, peaches, and plums. Rice growers were leveling ground in preparation for planting.

May:

The stone fruit and cherry harvests started. Growers were planting sweet potatoes and yams. Grapes and pomegranates were in bloom. The strawberry and asparagus harvests were in full swing. Fires on the west side of the county destroyed 19,500 acres of grazing land. Wheat, oats, and barley were harvested for silage.

June:

Cotton fields were weeded, irrigated, and treated for mites and worms. Cotton and seed alfalfa fields were in bloom. Alfalfa hay was cut, windrowed and baled. The cherry harvest finished and growers started to harvest figs. Apple orchards were thinned. Boysenberries and blackberries were harvested. Safflower was in bloom. The cantaloupe harvest started.

July

The safflower harvest started. Growers were packing Flame and Thompson Seedless grapes. Fall lettuce, cabbage, and broccoli fields were being bedded up and preirrigated. Plants in a few cotton fields were setting bolls. The Asian pear harvest had started.

August:

Safflower, corn, silage, and sugar beets were harvested. The wine grape harvest started. Raisin growers put grapes on trays to dry. Sweet potatoes were harvested. Fall broccoli, cabbage, lettuce, and sweet corn were planted. Granny Smith apples were released for harvest.

September:

Rice growers drained water from their fields in preparation for harvest. Cotton defoliation started. Safflower, corn silage, seed lettuce, black-eyed peas, and sugar beets were harvested. The processing tomato harvest ended. Growers planted strawberries and treated older plants to control worms and mites. Pineapple quince, kiwi fruit, and pistachios were harvested.

October:

The cotton, fall head lettuce, and fresh market tomato harvests started. An intense hail storm caused \$600,000 damage to oriental vegetables in a two-mile long area southwest of Fresno. Navel oranges were harvested. The pumpkin harvest was in full swing, while the strawberry harvest was nearly complete. The last of the cantaloupes were packed.

November:

The fall head lettuce harvest was slowed by rain and the planting of sugar beets and garlic was delayed. Growers planted spring head lettuce, red onions, and garlic. Peach, plum, nectarine, and almond trees were pruned. Broccoli and cabbage were harvested.

December:

The head and leaf lettuce harvests finished. A few stone fruit growers applied dormant spray. Heavy rains caused many field operations to be at a standstill while growers waited for the soil to dry out.

FIELD CROPS: Total gross returns for all field crops increased by \$31,207,000, from \$643,647,000 to \$674,854,000, and the harvested acreage was up from 1,500,900 acres to 1,513,560 acres.

Cotton, the county's second most valuable crop, increased in value by \$35,618,000, from \$497,666,000 to \$533,284,000. Upland cotton acreage was down 4,000 acres while pima plantings were up by 12.66 percent, increasing from 55,300 acres to 62,300 acres. The acreage of corn planted for grain increased by more than five times, while both barley and dry bean acreages were down. Alfalfa hay decreased in value by \$4,916,000 because of lower yields and a 4,100 acre reduction in plantings. The value of the wheat crop increased by 123.40 percent, from \$7,661,000 to \$17,115,000, as a result of a 16,200 acre increase in planted acreage and increases in both yield and the price paid to growers.

SEED CROPS: Total gross returns for seed crops decreased by 6.29 percent, from \$29,892,000 to \$28,011,000; the harvested acreage was down 3,520 acres. The returns for seed alfalfa were up by \$913,000, from \$19,906,000 to \$20,819,000. The price paid for cotton seed increased by three cents a pound but 1,800 fewer acres went to seed; the total value of the crop was down slightly. Vegetable seed returns decreased \$868,000 despite a 750 acre increase in plantings.

VEGETABLE CROPS: The total gross returns for all vegetable crops decreased \$42,491,000, from \$74,995,000 to \$33,614,000, a more normal value, after last year's record high price of \$715 per ton. Even though fall lettuce plantings were down by 1,500 acres, the crop value increased by \$17,953,000 as a result of increased yields and the prices paid to growers. The total gross returns for cantaloupes were up from \$58,870,000 to \$66,830,000 as a result of increases in price and yield. The value of fresh onions was up by \$4,319,000 and processed onions increased \$228,000. Tomatoes, number four on the county's top ten list of commodities, was down \$6,374,000, from \$263,551,000 to \$257,177,000. The value of the sweet corn crop was down by \$310,000 because of reduced plantings and yields.

FRUIT AND NUT CROPS: Total gross returns for all fruit and nut crops increased by 14.10 percent or \$148,292,800, from \$1,052,081,200 to \$1,200,374,000. Almonds were up in value by \$20,323,000, from \$113,781,000 to \$134,104,000. The bearing acreage of apples increased 30.58 percent and the crop value was up \$12,448,000. Even though the price paid to apricot growers increased \$158 per ton and the harvested acreage was up, the total gross value of the crop decreased by nearly two million dollars as a result of a 40.94 percent decrease in yield per acre. The value of the navel orange crop decreased \$3,668,000,

while returns to valencia growers were up 15.88 percent. Grapes, up in value by \$71,448,000, as a result of increased prices, replaced cotton as the county's most valuable crop. The value of freestone peaches was up by \$30,504,000 as a result of increases in harvested acreage, yield, and price per ton. The value of the persimmon crop doubled, increasing from \$2,100,000 to \$4,323,000. The plum yield per acre increased by 118.56 percent and the total value of the crop was up by \$15,661,000 from \$69,359,000 to \$ 85,020,000.

NURSERY PRODUCTS: The gross returns from sales of nursery products increased \$635,500 from the revised 1995 figure of \$16,211,000 to \$16,846,500. The number of Christmas trees that were harvested fell 21.30 percent. The value of herbaceous ornamentals (cut flowers, cut greens, potted plants, bedding plants, and herbaceous perennials) was up 88.70 percent from \$814,000 to \$1,536,000. The other category, which includes bareroot fruit and nut trees, budwood, citrus trees, grape rootings, grape cuttings, and vegetable plants, was up \$541,000, from \$9,979,000 to \$10,520,000.

LIVESTOCK AND POULTRY: Total gross returns increased \$12,776,000 from \$470,628,000 to \$483,404,000. Poultry was third on the county's top ten list, with a value of \$357,906,000. Cattle and calves, fell from eighth to ninth on the top ten list, even though the value was up \$10,138,000. Hog production was down slightly, but the total value was up \$691,000 due to an increase in price of \$15.09 per cwt. The price paid to growers for lambs increased \$311,000, from \$3,695,000 to 4,006,000. The value of ostrich breeding stock sold increased by \$68,000.

LIVESTOCK AND POULTRY PRODUCTS: Total gross returns for livestock and poultry products increased by \$28,318,000 to \$209,718,000. Milk, in fifth place on the county's top ten list, increased in value by \$28,175,000 to \$199,302,000. The production of turkey and chicken eggs for hatching and commercial uses was up \$871,000. The value of manure produced in the county decreased by \$592,000 to \$3,279,000.

APIARY PRODUCTS AND POLLINATION SERVICES: Gross returns for apiary products and pollination services increased by \$967,300, from \$7,020,700 to \$7,988,000. The price for honey increased 34.43 percent per pound from \$0.61 to \$0.82. The total value of pollination services, which includes alfalfa seed, tree fruit, and cantaloupe acreage, increased by \$380,000 to \$6,371,000.

INDUSTRIAL CROPS: The total gross returns of industrial crops increased by 57.07 percent, or \$4,182,900. The amount of lumber harvested increased by 21,271,000 board feet and was up in value by \$4,180,000.

FIELD CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Barley	1996	12,300	2.28	28,000	ton	\$ 146.00	\$ 4,088,000
	1995	13,700	2.14	29,300	ton	\$ 114.00	\$ 3,340,000
Beans, dry ^a	1996	24,000	.84	20,200	ton	617.00	12,463,000
	1995	25,500	.96	24,500	ton	678.00	16,611,000
Corn							
Grain	1996	7,500	4.67	35,000	ton	137.00	4,795,000
	1995	1,400	4.45	6,230	ton	118.00	735,000
Silage	1996	18,800	24.95	469,000	ton	19.00 ^b	8,911,000
	1995	20,000	22.95	459,000	ton	21.00 ^b	9,639,000
Cotton, Upland							
Lint	1996	339,000	1,391 ^c	943,000 ^d	bale	.80 ^c	380,218,000
	1995	343,000	1,230 ^c	844,000 ^d	bale	.86 ^c	365,823,000
Seed	1996			343,000	ton	175.00	60,025,000
	1995			307,000	ton	170.00	52,190,000
Cotton, Pima							
Lint	1996	62,300	1,228 ^c	153,000 ^d	bale	1.07 ^c	82,510,000
	1995	55,300	1,040 ^c	115,000 ^d	bale	1.24 ^c	71,870,000
Seed	1996			63,300	ton	160.00	10,128,000
	1995			47,600	ton	155.00	7,378,000
Hay							
Alfalfa	1996	64,900	7.40	480,000	ton	115.00	55,200,000
	1995	69,000	7.71	532,000	ton	113.00	60,116,000
Other ^f	1996	23,400	1.45	33,900	ton	99.00	3,356,000
	1995	11,300	3.15	35,600	ton	81.00	2,884,000
Pasture and Range							
Field	1996	29,400			acre	13.40	394,000
Stubble ^g	1995	19,000			acre	17.00	323,000

FIELD CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Pasture and Range (continued)							
Irrigated Pasture	1996	40,000			acre	\$ 110.00	\$ 4,400,000
	1995	40,000			acre	\$ 110.00	\$ 4,400,000
Grazing Range	1996	850,000			acre	7.00	5,950,000
	1995	850,000			acre	7.00	5,950,000
Rice	1996	5,800	3.40	19,700	ton	160.00	3,152,000
	1995	6,500	3.65	23,700	ton	156.00	3,697,000
Safflower	1996	4,300	1.63	7,000	ton	296.00	2,072,000
	1995	10,900	1.53	16,700	ton	318.00	5,311,000
Sugar Beets	1996	13,900	33.53	466,000	ton	39.00	18,174,000
	1995	23,000	28.91	665,000	ton	36.00	23,940,000
Wheat	1996	41,700	2.52	105,000	ton	163.00	17,115,000
	1995	25,500	2.26	57,600	ton	133.00	7,661,000
Other ^h	1996	5,660					1,903,000
	1995	<u>5,800</u>					<u>1,779,000</u>
Total	1996	1,513,560					\$674,854,000
	1995	1,500,900					\$643,647,000

a Includes blackeye beans, garbanzo, pinto, red kidney, and small white beans

b Field price

c Pounds of lint per acre

d 500 pounds lint per bale

e Price per pound, 504 pounds gross weight per bale

f Includes hay from alfalfa seed, barley, oats, sudan, and wheat

g Not included in total acreage figures; includes acreage from alfalfa hay and seed alfalfa, barley, beans, broccoli, melons, tomatoes, and wheat

h Includes alfalfa greenchop, alfalfa/oat silage, barley silage, oats, oat silage, sorghum, straw, wheat silage, and winter forage

SEED CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Alfalfa	1996	18,200	650	11,830,000	lb.	\$1.48	\$17,508,000
Certified	1995	20,000	575	11,500,000	lb.	\$1.50	\$17,250,000
Non-Certified	1996	5,300	440	2,332,000	lb.	1.42	3,311,000
	1995	3,400	625	2,125,000	lb.	1.25	2,656,000
Alfalfa Seed	1996	23,500		14,162,000	lb.		20,819,000
Total	1995	23,400		13,625,000	lb.		19,906,000
Cotton ^a	1996	4,200		3,360,000	lb.	.12	403,000
	1995	6,000		4,500,000	lb.	.09	405,000
Vegetable ^b	1996	2,250					4,153,000
	1995	1,500					5,021,000
Wheat	1996	2,670	6,000	16,020,000	lb.	.08	1,282,000
Certified	1995	3,280	6,000	19,680,000	lb.	.08	1,574,000
Non-Certified	1996	900	5,300	4,770,000	lb.	.07	334,000
	1995	2,840	5,300	15,052,000	lb.	.07	1,054,000
Other ^c	1996	1,600					1,020,000
	1995	<u>3,420*</u>					<u>1,932,000*</u>
Total	1996	30,920					\$28,011,000
	1995	34,440					\$29,892,000

a Included in field crop acreage

b Lettuce, onion, pepper, radish, and tomato

c Certified and non-certified barley, garbanzo beans and other miscellaneous beans, oats, rice, and sudan grass

* Revised

VEGETABLE CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Bell Peppers ^a	1996	3,300	13.21	43,600	ton	\$320.00	\$ 13,952,000
	1995	3,000	11.90	35,700	ton	\$365.00	\$ 13,031,000
Broccoli ^a	1996	7,100	4.17	29,600	ton	445.00	13,172,000
	1995	7,300	6.82	49,800	ton	370.00	18,426,000
Eggplant ^b	1996	850	18.71	15,900	ton	560.00	8,904,000
	1995	600	18.17	10,900	ton	605.00	6,595,000
Garlic ^a	1996	26,200	9.08	238,000	ton	496.00	118,048,000
	1995	22,900	8.38	192,000	ton	468.00	89,856,000
Head Lettuce							
Naked				32,400	ton		
Wrapped				78,000	ton		
Bulk				41,700	ton		
Spring	1996	9,300	16.35	152,100	ton	221.00	33,614,000
Season Total	1995	8,000	18.99	151,900	ton	715.00	108,609,000
Naked				42,800	ton		
Wrapped				78,500	ton		
Bulk				51,300	ton		
Fall	1996	8,700	19.84	172,600	ton	304.00	52,470,000
Season Total	1995	10,200	16.59	169,200	ton	204.00	34,517,000
Head Lettuce Totals	1996	18,000		324,700			86,084,000
	1995	18,200		321,100			143,126,000
Melons							
Cantaloupe	1996	25,700	12.68	326,000	ton	205.00	66,830,000
	1995	26,900	10.78	290,000	ton	203.00	58,870,000
Honeydew	1996	3,900	10.10	39,400	ton	267.00	10,520,000
	1995	4,500	8.53	38,400	ton	237.00	9,101,000

VEGETABLE CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Melons (continued)							
Mixed Melons ^c	1996	2,000	9.15	18,300	ton	\$ 288.00	\$ 5,270,000
	1995	2,000	7.05	14,100	ton	\$ 257.00	\$ 3,624,000
Watermelon	1996	1,180	23.14	27,300	ton	130.00	3,549,000
	1995	950	23.68	22,500	ton	162.00	3,645,000
Onions							
Fresh	1996	4,200	25.24	106,000	ton	192.00	20,352,000
	1995	4,000	20.45	81,800	ton	196.00	16,033,000
Processed	1996	9,800	18.88	185,000	ton	76.00	14,060,000
	1995	9,600	18.96	182,000	ton	76.00	13,832,000
Oriental Vegetables ^d	1996	1,310	11.37	14,900	ton	605.00	9,015,000
	1995	1,520	13.03	19,800	ton	513.00	10,157,000
Squash ^e	1996	950	7.16	6,800	ton	470.00	3,196,000
	1995	750	8.40	6,300	ton	453.00	2,854,000
Sweet Corn	1996	2,900	10.83	31,400	ton	270.00	8,478,000
	1995	3,100	10.90	33,800	ton	260.00	8,788,000
Tomatoes							
Fresh							
Cherry	1996	370	10.00	3,700	ton	594.00	2,198,000
	1995	600	8.50	5,100	ton	582.00	2,968,000
Standard	1996	9,000	13.22	119,000	ton	421.00	50,099,000
	1995	9,000	16.11	145,000	ton	357.00	51,765,000
Processed	1996	99,000	39.80	3,940,000	ton	52.00	204,880,000
	1995	100,000	38.67	3,867,000	ton	54.00	208,818,000

VEGETABLE CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Other ^f	1996	13,880				\$	53,571,000
	1995	<u>15,750</u>				\$	<u>73,180,000</u>
Total	1996	229,640					\$692,178,000
	1995	230,670					\$734,669,000

a Includes fresh and processed

b Includes Chinese, globe, Italian, and Japanese varieties

c Includes casaba, crenshaw, Juan Canary, Persian, Santa Claus, and Sharlyn

d Includes bittermelon, baby bok choy, Shanghai bok choy, bok choy, daikon, donqua, gai choy, gailon, lemon grass, lo bok, long beans, moqua, napa, opo, sinqua, sugar peas, taro, and yu choy

e Includes soft and hard types

f Includes artichoke; arugula; asparagus; basil; fava beans; green snap beans; baby and large lima beans; beets; cabbage; carrots; celery; red and Swiss chard; chives; cilantro; collards; cornnuts; tortilla corn; cucumber; dandelion greens; dill; kale; leeks; leaf and romaine lettuce; marjoram; mint; mushrooms; mustard greens; okra; green onions; **organic:** carrots, garlic (processed), leaf lettuce, onions (processed), winter and zucchini squash, sugar beets, and tomatoes (processed); oregano; parsley; parsnips; peas; chili peppers; potatoes; **processed:** cantaloupe, cauliflower, and honeydews; pumpkins; radishes; rosemary; rutabagas; spinach; sage; sugarcane; sunchokes; sweet potatoes/yams; tarragon; thyme; tomatilloes; turnips; and turnip greens

FRUIT AND NUT CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Almonds	1996	43,771	.71	31,100	ton	\$4,160.00	\$ 129,376,000
	1995	41,568	.55	22,900	ton	\$4,800.00	\$ 109,920,000
Almond Hulls	1996			59,100	ton	80.00	4,728,000
	1995			49,500	ton	78.00	3,861,000
Apples Fresh Processed	1996	4,578	12.89				
				44,000	ton	740.00	32,560,000
				15,000	ton	108.00	1,620,000
	1995 ^a	3,506	9.16	32,100	ton	677.00	21,732,000
Apricots	1996	1,367	3.00	4,100	ton	1,245.00	5,105,000
	1995	1,279	5.08	6,500	ton	1,087.00	7,066,000
Citrus							
Lemons	1996	908	11.07				
	1995	938	14.23				
Fresh	1996			7,260	ton	464.00	3,369,000
	1995			8,250	ton	513.00	4,232,000
Processed	1996			2,790	ton	70.00	195,000
	1995			5,100	ton	28.00	143,000
Oranges							
Navel	1996	20,111	10.11				
	1995	19,389	11.09				
Fresh	1996			148,000	ton	411.00	60,828,000
	1995			165,000	ton	400.00	66,000,000
Processed	1996			55,300	ton	48.00	2,654,000
	1995			50,000	ton	23.00	1,150,000
Valencia	1996	5,571	12.82				
	1995	5,418	13.60				
Fresh	1996			53,600	ton	534.00	28,622,000
	1995			53,700	ton	474.00	25,454,000
Processed	1996			17,800	ton	96.00	1,709,000
	1995			20,000	ton	36.00	720,000
Oranges Total	1996	25,682					93,813,000
	1995	24,807					93,324,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Citrus, other	1996	838	10.63				
	1995	621	11.14				
Fresh	1996			4,930	ton	\$ 497.00	\$ 2,450,000
	1995			5,480	ton	\$ 727.00	\$ 3,984,000
Processed	1996			3,980	ton	72.00	287,000
	1995			1,440	ton	14.00	20,200
Figs, dried °	1996	2,641	.79	2,090	ton	1,014.00	2,119,000
	1995	2,842	1.03	2,930	ton	1,216.00	3,563,000
Grapes							
Raisin Varieties	1996	169,137	8.48				
	1995	167,792	10.11				
Canned	1996			9,160	ton	240.00	2,198,000
	1995			7,000	ton	237.00	1,659,000
Crushed	1996			385,000	ton	191.00	73,535,000
	1995			267,000	ton	165.00	44,055,000
Dried	1996			233,000	ton	1,056.00	246,048,000
	1995			277,000	ton	930.00	257,610,000
Fresh	1996			59,300	ton	915.00	54,260,000
	1995			35,100	ton	837.00	29,379,000
Juice	1996			2,940	ton	520.00	1,529,000
	1995			2,800	ton	251.00	703,000
Table Varieties	1996	10,372	8.77				
	1995	10,580	9.87				
Crushed	1996			19,400	ton	188.00	3,647,000
	1995			25,700	ton	164.00	4,215,000
Fresh	1996			71,600	ton	1,198.00	85,777,000
	1995			78,700	ton	905.00	71,224,000
Wine Varieties	1996	37,304	8.60				
	1995	33,659	10.13				
Crushed	1996			314,000	ton	267.00	83,838,000
	1995			335,000	ton	218.00	73,030,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Grapes (continued)							
Juice	1996			6,990	ton	\$ 645.00	\$ 4,509,000
	1995			5,900	ton	\$ 342.00	\$ 2,018,000
Grapes Total	1996	216,813					555,341,000
	1995	212,031					483,893,000
Kiwi Fruit	1996	428	3.46	1,480	ton	1,150.00	1,702,000
	1995	429	7.00	3,000	ton	1,286.00	3,858,000
Nectarines	1996	15,444	9.07	140,000	ton	780.00	109,200,000
	1995	16,230	6.90	112,000	ton	895.00	100,240,000
Olives, canned	1996	1,402	6.74	9,450	ton	648.00	6,124,000
	1995	1,377	3.66	5,040	ton	648.00	3,266,000
Peaches							
Cling	1996	1,826	17.63	32,200	ton	201.00	6,472,000
	1995	1,706	17.00	29,000	ton	205.00	5,945,000
Freestone	1996	14,569	8.79	128,000	ton	887.00	113,536,000
	1995	13,554	7.89	107,000	ton	776.00	83,032,000
Peaches Total	1996	16,395					120,008,000
	1995	15,260					88,977,000
Pears, Asian and European	1996	667	6.22	4,150	ton	883.00	3,665,000
	1995	658	11.22	7,380	ton	818.00	6,037,000
Persimmons	1996	427	8.24	3,520	ton	1,228.00	4,323,000
	1995	414	4.23	1,750	ton	1,200.00	2,100,000
Pistachios	1996	3,635	.65	2,360	ton	2,622.00	6,188,000
	1995	3,453	1.75	6,040	ton	2,282.00	13,783,000
Plums	1996	17,146	6.36	109,000	ton	780.00	85,020,000
	1995	16,602	2.91	48,300	ton	1,436.00	69,359,000
Pomegranates	1996	1,088	7.11	7,740	ton	965.00	7,469,000
	1995	974	8.32	8,100	ton	796.00	6,448,000
Prunes, dried ^c	1996	2,191	2.83	6,200	ton	1,100.00	6,820,000
	1995*	1,726	4.72	8,150	ton	885.00	7,213,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Strawberries ^a	1996	524	13.85	7,260	ton	\$ 745.00	\$ 5,409,000
	1995	520	11.73	6,100	ton	\$ 765.00	\$ 4,667,000
Walnuts	1996	3,041	1.73	5,260	ton	1,665.00	8,758,000
	1995	3,013	1.89	5,700	ton	1,460.00	8,322,000
Other ^d	1996	1,053					4,725,000
	1995*	<u>853</u>					<u>6,073,000</u>
Total	1996	360,039					\$ 1,200,374,000
	1995	349,101					\$ 1,052,081,200

a Includes fresh and processed

b Includes blood oranges, grapefruit, mandarin/tangerines, minneola/tangelos, and pummelos

c Acres packed fresh or processed, are included in other fruit and nut crops; 139 acres figs, 20 acres prunes

d Includes avocados, boysenberries, blackberries, cherries, fresh figs, substandard figs, fig paste, olive oil, olallieberries, processed apricots, processed grape leaves, processed nectarines, processed peaches, processed plums, pecans, fresh prunes, and quince

* Revised

NURSERY PRODUCTS

ITEM	YEAR	ACRES	QUANTITY	UNIT	VALUE
Christmas Trees	1996	37	4,250	trees	\$ 84,500
	1995	66	5,400	trees	\$ 108,000
Herbaceous Ornamentals ^a	1996	26	208,000	b	1,536,000
	1995	20	163,000	b	814,000
Ornamental Trees and Shrubs	1996	50	1,218,000	plants	4,706,000
	1995	48	1,111,000	plants	5,310,000
Other ^c	1996	490	58,136,000	plants	10,520,000
	1995	<u>317</u>	46,584,000*	plants	<u>9,979,000*</u>
Total	1996	603			\$16,846,500
	1995	451			\$16,211,000*

a Includes cut flowers, cut greens, potted plants, bedding plants, and herbaceous perennials

b Includes flats, dozens, cans, and single plants

c Includes bareroot fruit and nut trees, budwood, citrus trees, grape rootings and cuttings, and vegetable plants

* Revised

LIVESTOCK AND POULTRY

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Cattle and Calves						
Beef						
Breeding Stock						
Common	1996	1,380		head	\$ 440.00	\$ 607,000
	1995	1,380		head	\$ 490.00	\$ 676,000
Registered	1996	350		head	920.00	322,000
	1995	350		head	1,020.00	357,000
Feeders	1996	176,000	353,000	cwt.	57.40	20,262,000
	1995	145,000	290,000	cwt.	66.83	19,381,000
Calves	1996	24,300	72,800	cwt.	62.10	4,521,000
	1995	24,300	72,800	cwt.	74.00	5,387,000
Slaughter Stock	1996	227,000	1,088,000 ^a	cwt.	62.78	68,305,000
	1995	188,000	903,000 ^a	cwt.	63.11	56,988,000
Dairy						
Breeding Stock	1996	9,640		head	1,190.00	11,472,000
	1995	9,400		head	1,170.00	10,998,000
Cull Stock	1996	23,000	298,000	cwt.	32.30	9,625,000
	1995	22,500	292,000	cwt.	37.50	10,950,000
Calves	1996	18,400	55,200	cwt.	48.70	2,688,000
	1995	18,000	54,000	cwt.	54.20	2,927,000
Cattle and Calves Total	1996					117,802,000
	1995					107,664,000
Hogs and Pigs						
Feeder Pigs and Slaughter Stock	1996	27,800	56,400	cwt.	55.11	3,108,000
	1995	29,800	60,400	cwt.	40.02	2,417,000

LIVESTOCK AND POULTRY: (continued)

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Sheep and Lambs						
Slaughter Stock						
Lambs	1996	46,800	44,400	cwt.	\$ 90.23	\$ 4,006,000
	1995	48,700	46,300	cwt.	\$ 79.81	\$ 3,695,000
Sheep	1996	11,900	16,700	cwt.	26.95	450,000
	1995	12,400	17,400	cwt.	25.00	435,000
Turkeys	1996	4,910,000	106,793,000	lb.	.65	69,415,000
	1995	4,612,000	97,129,000	lb.	.71	68,962,000
Ostriches	1996					120,000
	1995					52,000
Other ^b	1996					288,503,000
	1995					<u>287,403,000</u>
Total	1996					\$483,404,000
	1995					\$470,628,000

a Net gain

b Includes chickens, chicks, fryers, old breeder birds, broilers, and roasters; game birds; squab; turkey poults and old turkey breeder birds; cull milk goats and kid goats

LIVESTOCK AND POULTRY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
Manure	1996	553,000	ton	\$ 5.93	\$ 3,279,000
	1995	526,000	ton	\$ 7.36	\$ 3,871,000
Milk					
Manufacturing	1996	128,000	cwt.	11.69	1,496,000
	1995	37,900	cwt.	10.37	393,000
Market ^a	1996	14,609,000	cwt.	13.54	197,806,000
	1995	14,795,000	cwt.	11.54	170,734,000
Wool	1996	478,000	lb.	.80	382,000
	1995	498,000	lb.	1.04	518,000
Eggs					
Chicken & Turkey ^b	1996	1,086,000	dozen	6.22	6,755,000
	1995	1,196,000	dozen	4.92	<u>5,884,000</u>
Total	1996				\$209,718,000
	1995				\$181,400,000

a Includes cow and goat milk

b Includes market eggs and hatching eggs

APIARY PRODUCTS AND POLLINATION SERVICES

ITEM	YEAR	PRODUCTION TOTAL	UNIT	VALUE	
				PER UNIT	TOTAL
Apiary Products ^a					
Honey	1996	1,796,000	lb.	\$.82	\$ 1,473,000
	1995	1,568,000	lb.	\$.61	\$ 956,000
Beeswax	1996	64,800	lb.	2.22	144,000
	1995	41,900	lb.	1.76	73,700
Pollination ^b					
Alfalfa Seed	1996	63,500	colony	21.12	1,341,000
	1995	60,600	colony	21.75	1,318,000
Tree Fruit ^c	1996	111,000	colony	38.00	4,218,000
	1995	116,900	colony	35.28	4,124,000
Cantaloupe	1996	49,200	colony	16.50	812,000
	1995	37,500	colony	14.64	<u>549,000</u>
Total	1996				\$ 7,988,000
	1995				\$ 7,020,700

a Reflects bee colonies registered in Fresno County by commercial and semi-commercial beekeepers:
1996 - 39,260 colonies; 1995 - 46,536 colonies

b Reflects value of pollination by all bee colonies located in Fresno County for pollination services during 1996. Estimated total colonies: 101,000

c Almonds, cherries, and plums

INDUSTRIAL CROPS

CROP	YEAR	PRODUCTION	UNIT (a)	VALUE (b)
Timber	1996	40,471,000	board feet	\$ 11,460,000
	1995	19,200,000	board feet	\$ 7,280,000
Fire Wood	1996	10,100	ords	52,300
	1995	9,300	ords	<u>49,400</u>
Total	1996			\$ 11,512,300
	1995			\$ 7,329,400

a Board feet is the quantity of timber cut and sealed

b Value of timber immediately prior to cutting

**GROWTH IN FRESNO COUNTY AGRICULTURE AS INDICATED BY GROSS PRODUCTION
VALUE OF AGRICULTURAL PRODUCTS OVER A TWENTY - ONE YEAR SPAN**

1976 - \$1,178,373,000*	1987 - \$2,264,044,000*
1977 - 1,110,424,200*	1988 - 2,444,732,600*
1978 - 1,241,033,100*	1989 - 2,607,648,800*
1979 - 1,719,235,500	1990 - 2,949,484,000*
1980 - 2,002,448,900*	1991 - 2,552,305,040*
1981 - 1,905,289,240*	1992 - 2,635,447,400*
1982 - 1,855,733,500	1993 - 3,022,311,100*
1983 - 1,727,319,500	1994 - 3,084,870,800
1984 - 1,921,020,840*	1995 - 3,142,878,300*
1985 - 2,054,060,400*	1996 - 3,324,885,800
1986 - 2,125,721,200*	

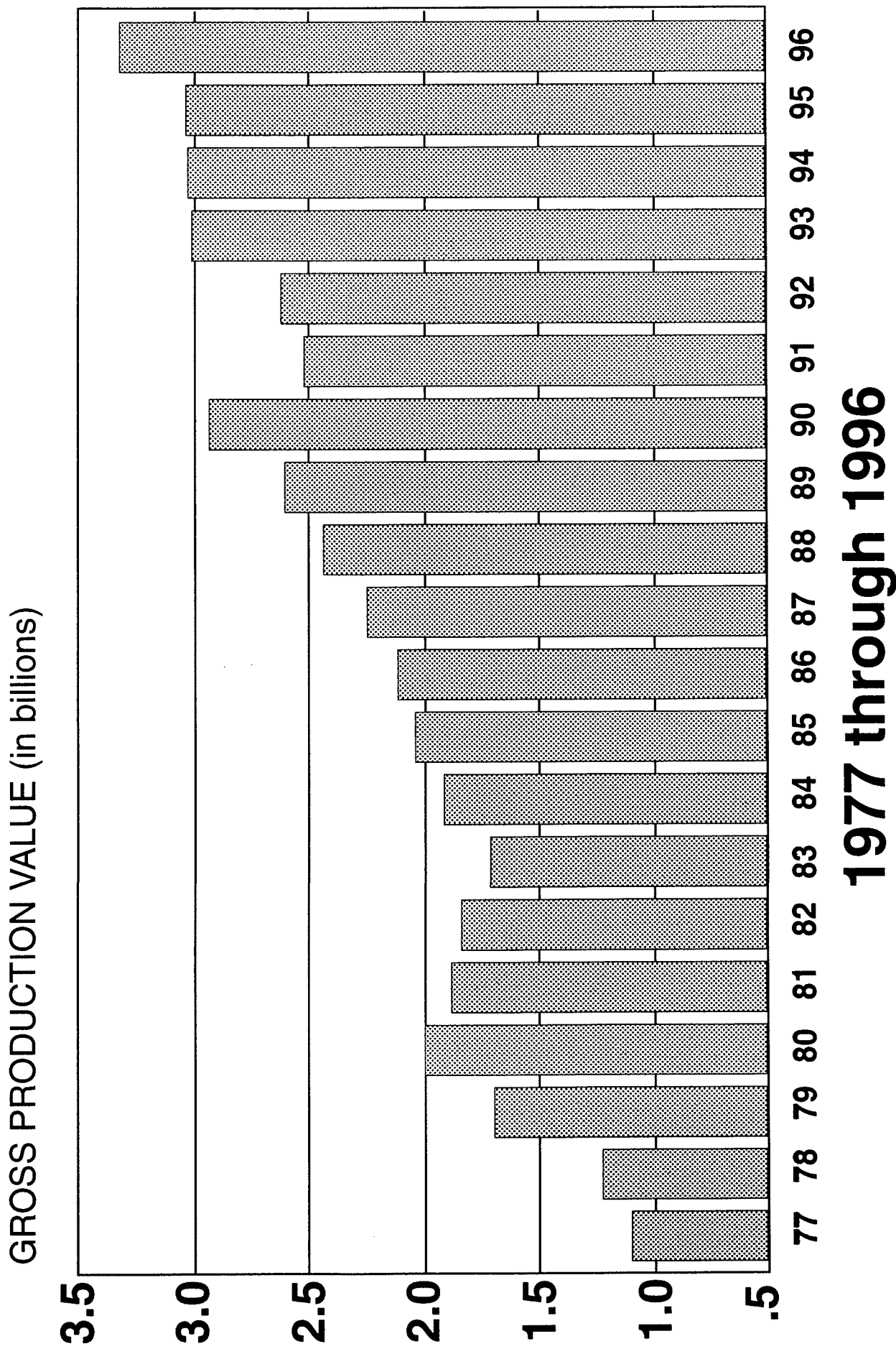
SIX YEAR COMPARISON OF GROSS PRODUCTION VALUE IN FRESNO COUNTY

	1976	1986	1993	1994	1995	1996
Field Crops	\$ 426,163,000*	\$ 483,687,000	\$ 607,058,000	\$ 661,062,000	\$ 643,647,000	\$ 674,854,000
Seed Crops	22,205,000*	47,063,600*	34,577,000	38,398,000	29,892,000	28,011,000
Vegetable Crops	170,079,000*	368,120,000	609,714,000	674,231,000	734,669,000	692,178,000
Fruit & Nut Crops	340,640,000*	775,104,600	1,010,509,400	992,109,900	1,052,081,200	1,200,374,000
Nursery Products	2,724,000	10,331,000	21,294,000*	23,945,000	16,211,000*	16,846,500
Livestock & Poultry	213,956,000*	431,722,000	724,953,000	673,275,000	652,028,000	693,122,000
Apiary	2,606,000*	6,065,000	6,052,000	6,015,000	7,020,700	7,988,000
Industrial Crops	+	3,628,000	8,153,700	15,834,900	7,329,400	11,512,300
TOTAL	\$1,178,373,000*	\$2,125,721,200*	\$3,022,311,100*	\$3,084,870,800	\$3,142,878,300*	\$3,324,885,800

*Revised

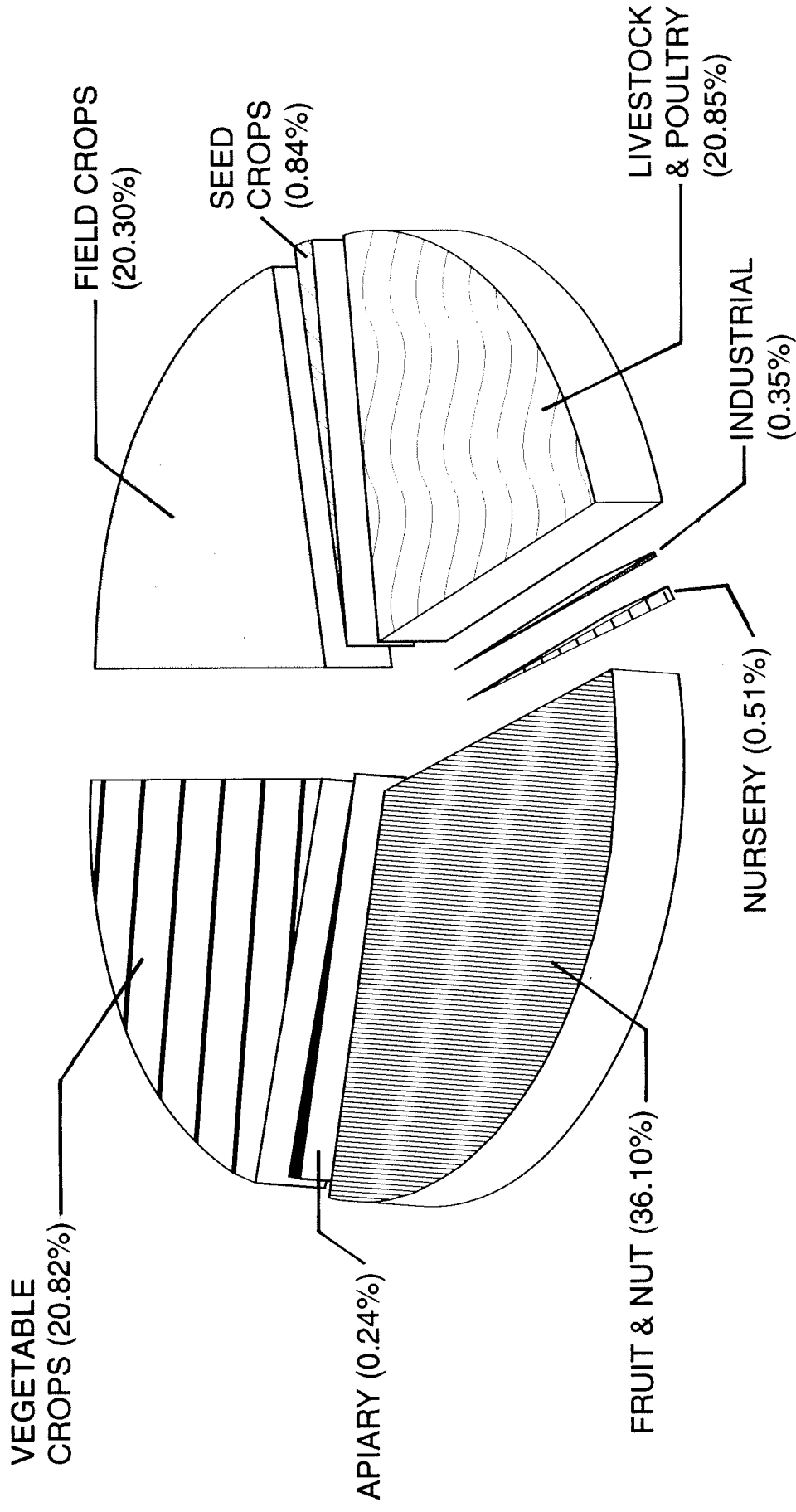
+Not reported

GROWTH OF FRESNO COUNTY AGRICULTURE OVER A TWENTY YEAR SPAN

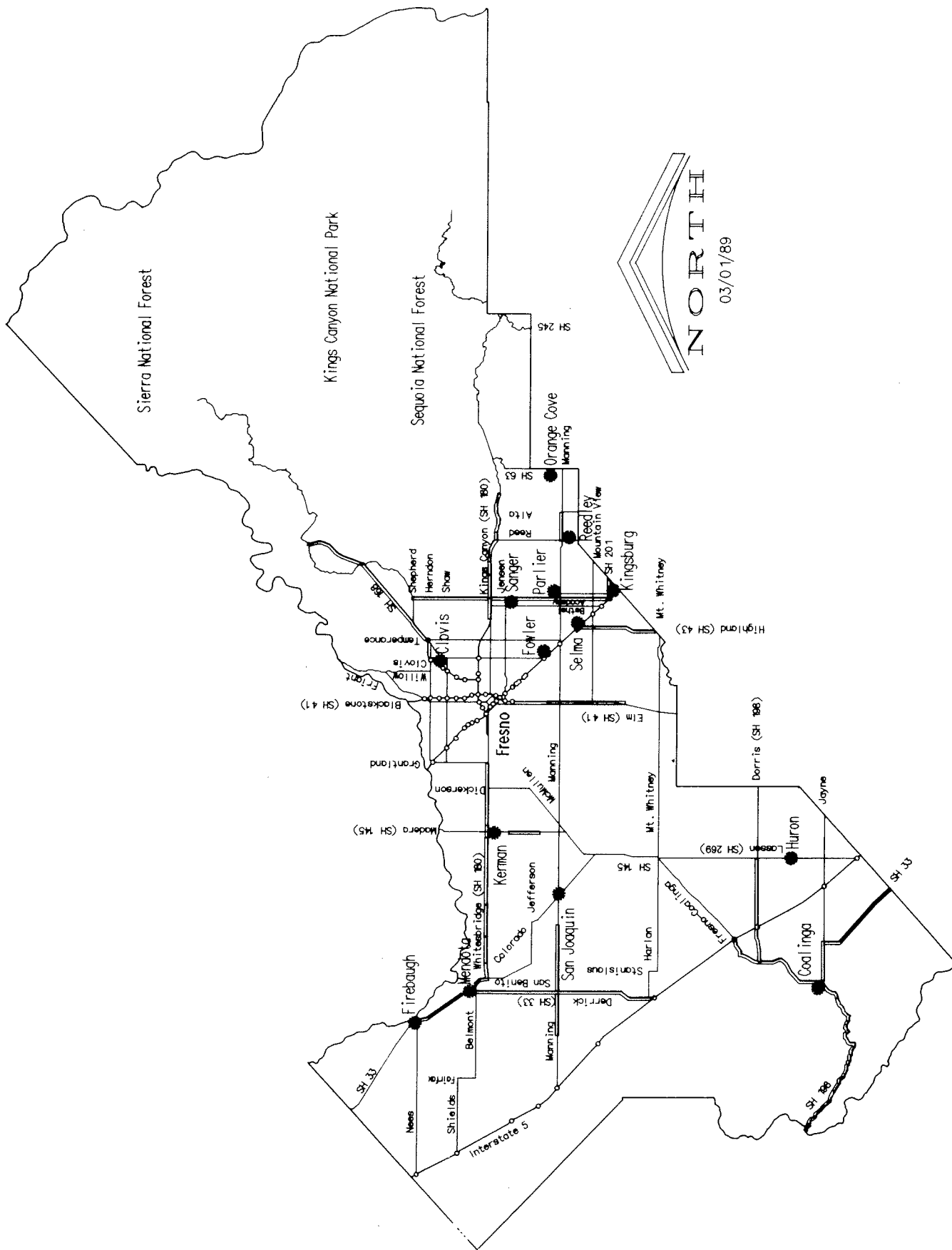


RELATIONSHIP IN TERMS OF TOTAL VALUE

CROP REPORT YEAR 1996



TOTAL VALUE \$3,324,885,800



NORTH
03/01/89



Department of Agriculture

Cosmo C. Insalaco
Agricultural Commissioner
Sealer of Weights & Measures

Ann M. Veneman, Secretary
California Department of Food and Agriculture

The Honorable Board of Supervisors
County of Fresno

Juan Arambula, Chairman
Deran Koligian
Sharon Levy
Stan Oken
Tom Perch

William H. Randolph
County Administrative Officer

I am pleased to submit the 1997 Fresno County Agricultural Crop and Livestock Report. This annual compilation presents statistical data pertaining to the acreage, yield, and gross value of Fresno County agricultural products.

The total gross production value of Fresno County agricultural commodities in 1997 was \$3,435,271,500. This represents a 3.32 percent increase from the 1996 gross production value.

It must be emphasized that the values presented in this report reflect gross values only, and do not in any manner reflect net income or loss to producers.

Agriculture continues as the major industry in Fresno County and is a driving force in the county's economy. Every dollar received by Fresno County producers results in the economic extension benefit of three and one-half dollars to the total economy of the county.

I sincerely appreciate the professional and dedicated work performed by Deputy Agricultural Commissioner/Sealer Dennis C. Plann, Supervising Agricultural/Standards Specialist Bruce Clayton, Agricultural/Standards Specialists Scotti Walker and Katherine C. de Contreras, as well as the rest of my staff at the Department of Agriculture for the preparation of this report.

My thanks to the many individuals, related agencies, and members of the agricultural industry for their contributions in the compilation of this report.

Best Regards,

A handwritten signature in cursive script, appearing to read "Cosmo C. Insalaco".

Cosmo C. Insalaco
Agricultural Commissioner/Sealer

*"The cultivation of the earth is the most
important labor of man.*

*Unstable is the future of the country
which has lost its taste for agriculture.
If there is one lesson of history that is
unmistakable,
it is that national strength lies very near
the soil."*

Daniel Webster

*"If you want to behold a truly religious man
in action, go to Fresno and watch a farmer
watering his trees, vines and plants."*

William Saroyan

*"To American agriculture, the quiet giant that contributes
more to our balance of payments than any other export;
that has increased productivity more consistently than
any other segment of our economy, that feeds more people
at less cost than has ever happened in any other part of the
world or at any time in history."*

American Author

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FRESNO COUNTY'S 10 LEADING CROPS

Crop	1997 Rank	1997 Dollar Value	1996 Rank	1987 Rank	1977 Rank
GRAPES	1	663,075,000	1	2	1
COTTON	2	458,382,000	2	1	2
POULTRY	3	341,425,000	3	*	*
TOMATOES	4	220,754,000	4	4	5
ALMONDS	5	193,035,000	6	12	17
MILK	6	192,896,000	5	5	3
CATTLE & CALVES	7	130,402,000	9	3	4
HEAD LETTUCE	8	119,305,000	12	6	10
ORANGES	9	108,930,000	11	7	6
GARLIC	10	<u>98,868,000</u>	8	15	28
TOP TEN TOTAL		\$2,527,072,000			

* Not previously combined for ranking purposes

1997 Highlights in Retrospect

January:

Peaches, nectarines, plums, almonds, and grapes were pruned. The cotton plowdown deadline was extended because of wet field conditions. A break in the San Joaquin River levee caused the flooding of approximately 4,500 acres of farmland. Early varieties of nectarines were in bloom, and buds had started to swell in almond orchards. Growers had started to thin spring lettuce fields.

February:

The cotton plowdown deadline was again extended as a result of rain. Peach, nectarine, plum, apricot, and almond trees were in bloom. Bees were moved into almond and plum orchards. Growers applied fungicides to control blossom rot. Spring lettuce fields were thinned, weeded, and treated to control aphids. Avocados, daikon, asparagus, broccoli, taro, and radicchio were harvested.

March:

The cotton plowdown deadline was again extended as a result of rain. Cotton and tomato beds were prepared for planting. Winter forage was cut for silage. Stone fruit orchards were in full bloom. Almond, walnut, and apple trees were developing new foliage. A hail storm that moved through the Huron and Firebaugh areas caused approximately \$1,369,000 in damage to tomatoes, peppers, watermelon, head lettuce, and almonds. Growers started to plant cotton. Orange and cherry trees were in bloom.

April:

A late season frost caused damage to grapevines in the Reedley area and squash near Selma. Growers had started to thin fruit in peach, plum, nectarine, and apricot orchards. Cotton planting was nearly finished. Apple trees were in bloom. Nectarine, broccoli, head and leaf lettuce, asparagus, and strawberries were harvested. Valencia oranges were being picked.

May:

Processing tomatoes were in bloom. Growers had started to knock down the tops on red onions in preparation for harvest. The plum and cherry harvests started. Growers were planting sweet potatoes. Garbanzo fields were drying for harvest.

June:

Cotton fields were cultivated, weeded, irrigated, and treated to control aphids, lygus, and mites. Safflower fields were in bloom. The table grape, fig, cantaloupe, and watermelon harvests started. Alfalfa and oat hay were cut, windrowed, and baled.

July:

Rice had started to form seed heads. Carrots were hand weeded. The processing tomato and Asian pear harvests began. Almond hulls had started to split. Black-eyed beans were being irrigated.

August:

Seed alfalfa fields were drying for harvest. Whitewash was sprayed on processing tomatoes to protect them from sunburn. Almonds, raisins, table grapes, sugar beets, sweet potatoes, pomegranates, and garlic were harvested. Growers had started to plant fall lettuce and strawberry fields. Granny Smith apples were released for harvest.

September:

Cotton defoliation started; a few fields were being harvested by the end of the month. Rains slowed the raisin grape harvest. Pistachios, walnuts, quince, rice, and olives were harvested. Sweet corn was irrigated and treated to control worms. Citrus growers were treating their groves for red scale. Early plantings of lettuce were thinned.

October:

The cotton harvest continued. Corn and alfalfa were cut for silage. Growers were planting small grain and winter forage crops. The table grape harvest was nearly finished. The navel orange harvest started and the last of the cantaloupes were harvested. White onions were prepared for harvest. Persimmons, kiwi fruit, and lettuce were harvested. Rice stubble was burned.

November:

Broccoli and cabbage sets, red onions, and garlic were planted. Peach, plum, and nectarine trees were pruned, irrigated, and treated to control weeds. A few tree fruit growers had started to apply dormant sprays. The kiwi fruit harvest was in full swing. Citrus growers were harvesting navel oranges, pummelos, tangerines, lemons, and grapefruit. Growers had started to prepare beds for processing tomatoes. Spring head lettuce plantings were weeded and irrigated. Ground was fumigated to prepare land for planting new orchards and vineyards.

December:

The leaf and head lettuce harvests finished. Wet field conditions stopped the cotton harvest and plowdown activities. Temperatures in the mid-20's threatened the new navel orange crop.

FIELD CROPS: Total gross returns for all field crops decreased by \$48,117,000, from \$674,854,000 to \$626,737,000, and the harvested acreage was up from 1,513,560 acres to 1,514,600 acres. Cotton, the county's second most valuable crop, decreased in value by 14.05 percent, from \$533,284,000 to \$458,382,000. Upland cotton acreage was down 21,000 acres while pima plantings increased 3.69 percent. The value of silage corn increased by 30.36 percent. Alfalfa hay increased in value by \$13,428,000 as a result of increases in harvested acreage, yield, and the price per ton. Both rice and safflower acreages were down but sugar beet plantings increased by 5,800 acres.

SEED CROPS: Total gross returns for seed crops decreased by 14.05 percent, from \$28,011,000 to \$24,075,000; the harvested acreage was down 6,450 acres. The returns for seed alfalfa were up by \$990,000, from \$20,819,000 to \$21,809,000. Vegetable seed returns decreased \$3,274,000, or 78.83 percent; certified wheat seed was down \$578,000. There was no non-certified wheat seed reported in the county.

VEGETABLE CROPS: The total gross returns for all vegetable crops decreased \$10,788,000, from \$692,178,000 to \$681,390,000. The value of the head lettuce crop increased 38.59 percent, from \$86,084,000 to \$119,305,000; both the acreage and price were up. Tomatoes, fourth on the county's top ten list of commodities, were down \$36,423,000, from \$257,177,000 to \$220,754,000. The value of the broccoli crop was up 47.98 percent and the gross returns for garlic were down 16.25 percent. The value of the watermelon crop doubled as a result of increases in planted acreage, yield, and price. Oriental vegetable production was down 4.47 tons per acre and the crop value decreased \$3,452,000. Sweet corn plantings were up 27.59 percent and the value of the crop increased \$2,671,000.

FRUIT AND NUT CROPS: Total gross returns for all fruit and nut crops increased by 13.51 percent or \$162,185,800, from \$1,200,374,000 to \$1,362,559,800. Almond returns were up by 43.94 percent, from \$134,104,000 to \$193,035,000, reflecting increases in the harvested acreage and yield per acre. Apricot growers received \$390 per ton less than in 1996; however, a 158 percent increase in yield resulted in a \$4,129,000 increase in crop value. The value of the navel orange crop increased \$18,873,000, while returns to valencia growers were down \$3,756,000. Grapes, again the number one crop on the county's top ten list, were up 19.40 percent, or \$107,734,000. The value of raisin grape varieties increased 23.51 percent and wine varieties were up 34.21 percent. The value of the nectarine and peach crops was down while plums were up \$520,000. The price paid for the Asian pear crop increased \$289 per ton and the crop value increased \$1,457,000. The yield per acre of pistachios was up 164.62 percent, from 0.65 tons per acre to 1.72 tons per acre.

NURSERY PRODUCTS: The gross returns from sales of nursery products increased 118.66 percent or \$19,990,700, from the 1996 figure of \$16,846,500 to \$36,837,200. The value of herbaceous ornamentals (cut flowers, cut greens, potted plants, bedding plants, and herbaceous perennials) decreased \$532,000, while ornamental trees and shrubs went up 37.14 percent to \$6,454,000. The other category, which includes bareroot fruit trees, budwood, citrus trees, grape rootings and cuttings, and vegetable plants, was up 178.80 percent, from \$10,520,000 to \$29,330,000.

LIVESTOCK AND POULTRY: Total gross returns for livestock and poultry decreased \$2,121,000, from \$483,404,000 to \$481,283,000. Poultry was again third on the county's top ten list, with a value of \$341,425,000. Cattle and calves moved from ninth to seventh on the top ten list with a value of \$130,402,000. Hog production was down by 3,000 head. The total value of lambs increased 40.16 percent or \$1,609,000, from \$4,006,000 to \$5,615,000. The price per hundred weight for sheep went up \$9.06, from \$26.95 to \$36.01. The total value for turkeys was down by 25.65 percent due to a decrease in production and price.

LIVESTOCK AND POULTRY PRODUCTS: Total gross returns for livestock and poultry products decreased by \$6,509,000 to \$203,209,000. Milk fell to sixth place on the county's top ten list, dropping in value by \$6,406,000 to \$192,896,000. The value of turkey and chicken eggs for hatching and commercial use was also down. Manure production was up by 32,000 tons.

APIARY PRODUCTS AND POLLINATION SERVICES: Gross returns for apiary products and pollination services increased by \$498,000, from \$7,988,000 to \$8,486,000. Due to an increase in production of honey, the total value increased by 27.7 percent, even though the price for honey decreased from \$0.82 to \$0.72 per pound. The total value of pollination services, which includes alfalfa seed, tree fruit, and cantaloupe acreage, increased by \$83,000 to \$6,454,000.

INDUSTRIAL CROPS: The total gross returns for industrial crops decreased by \$817,800, from \$11,512,300 to \$10,694,500. The timber harvest decreased by 2,030,000 board feet which represents a 5.02 percent decline in production.

FIELD CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Barley	1997	11,300	2.47	27,900	ton	\$ 122.00	\$ 3,404,000
	1996	12,300	2.28	28,000	ton	\$ 146.00	\$ 4,088,000
Beans, dry ^a	1997	22,900	1.14	26,100	ton	549.00	14,329,000
	1996	24,000	.84	20,200	ton	617.00	12,463,000
Corn							
Grain	1997	9,100	4.86	44,200	ton	127.00	5,613,000
	1996	7,500	4.67	35,000	ton	137.00	4,795,000
Silage	1997	18,900	25.61	484,000	ton	24.00 ^b	11,616,000
	1996	18,800	24.95	469,000	ton	19.00 ^b	8,911,000
Cotton, Upland							
Lint	1997	318,000	1,300 ^c	827,000 ^d	bale	.75 ^c	312,606,000
	1996	339,000	1,391 ^c	943,000 ^d	bale	.80 ^c	380,218,000
Seed	1997			301,000	ton	176.00	52,976,000
	1996			343,000	ton	175.00	60,025,000
Cotton, Pima							
Lint	1997	64,600	1,238 ^c	160,000 ^d	bale	1.01 ^c	81,446,000
	1996	62,300	1,228 ^c	153,000 ^d	bale	1.07 ^c	82,510,000
Seed	1997			66,200	ton	166.00	10,989,000
	1996			63,300	ton	160.00	10,128,000
Hay							
Alfalfa	1997	65,300	8.15	532,000	ton	129.00	68,628,000
	1996	64,900	7.40	480,000	ton	115.00	55,200,000
Other ^f	1997	28,300	1.41	39,900	ton	96.00	3,830,000
	1996	23,400	1.45	33,900	ton	99.00	3,356,000
Pasture and Range							
Field	1997	26,600			acre	23.68	630,000
Stubble ^g	1996	29,400			acre	13.40	394,000

FIELD CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Pasture and Range (continued)							
Irrigated	1997	40,000			acre	\$ 110.00	\$ 4,400,000
Pasture	1996	40,000			acre	\$ 110.00	\$ 4,400,000
Grazing	1997	850,000			acre	7.00	5,950,000
Range	1996	850,000			acre	7.00	5,950,000
Rice	1997	5,400	3.28	17,700	ton	180.00	3,186,000
	1996	5,800	3.40	19,700	ton	160.00	3,152,000
Safflower	1997	3,900	1.52	5,930	ton	310.00	1,838,000
	1996	4,300	1.63	7,000	ton	296.00	2,072,000
Sugar Beets	1997	19,700	31.62	623,000	ton	39.00	24,297,000
	1996	13,900	33.53	466,000	ton	39.00	18,174,000
Wheat	1997	46,900	2.67	125,000	ton	146.00	18,250,000
	1996	41,700	2.52	105,000	ton	163.00	17,115,000
Other ^h	1997	10,300					2,749,000
	1996	<u>5,660</u>					<u>1,903,000</u>
Total	1997	1,514,600					\$626,737,000
	1996	1,513,560					\$674,854,000

a Includes black-eyed, garbanzo, baby and large lima, red kidney, and small white beans

b Field price

c Pounds of lint per acre

d 500 pounds lint per bale

e Price per pound, 504 pounds gross weight per bale

f Includes hay from alfalfa seed, barley, oats, sudan, wheat, and winter forage

g Not included in total field crop acreage; includes acreage from alfalfa hay and seed alfalfa, barley, beans, melons, oats, and wheat

h Includes alfalfa/oat silage, barley silage, oats, organic safflower, sorghum, straw, sudan grass silage, wheat silage, and winter forage

SEED CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Alfalfa	1997	19,600	650	12,740,000	lb.	\$1.60	\$20,384,000
Certified	1996	18,200	650	11,830,000	lb.	\$1.48	\$17,508,000
Non-Certified	1997	1,900	500	950,000	lb.	1.50	1,425,000
	1996	5,300	440	2,332,000	lb.	1.42	3,311,000
Alfalfa Seed	1997	21,500		13,690,000	lb.		21,809,000
Total	1996	23,500		14,162,000	lb.		20,819,000
Cotton ^a	1997	5,800		4,060,000	lb.	.09	365,000
	1996	4,200		3,360,000	lb.	.12	403,000
Vegetable ^b	1997	900					879,000
	1996	2,250					4,153,000
Wheat	1997	1,600	5,500	8,800,000	lb.	.08	704,000
Certified	1996	2,670	6,000	16,020,000	lb.	.08	1,282,000
Non-Certified	1997	0	0	0	lb.	.00	0
	1996	900	5,300	4,770,000	lb.	.07	334,000
Other ^c	1997	470					318,000
	1996	<u>1,600</u>					<u>1,020,000</u>
Total	1997	24,470					\$24,075,000
	1996	30,920					\$28,011,000

a Included in field crop acreage

b Lettuce, onion, pepper, radish, and tomato

c Certified and non-certified black-eyed beans, corn, and oats

VEGETABLE CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Asparagus ^a	1997	2,360	2.97	7,000	ton	\$2,344.00	\$ 16,408,000
	1996						
Bell Peppers ^b	1997	2,400	16.67	40,000	ton	323.00	12,920,000
	1996	3,300	13.21	43,600	ton	320.00	13,952,000
Broccoli ^b	1997	8,200	5.41	44,400	ton	439.00	19,492,000
	1996	7,100	4.17	29,600	ton	445.00	13,172,000
Eggplant ^c	1997	770	16.62	12,800	ton	550.00	7,040,000
	1996	850	18.71	15,900	ton	560.00	8,904,000
Garlic ^b	1997	23,300	9.18	214,000	ton	462.00	98,868,000
	1996	26,200	9.08	238,000	ton	496.00	118,048,000
Head Lettuce							
Naked				36,900	ton		
Wrapped				81,200	ton		
Bulk				49,300	ton		
Spring	1997	9,900	16.91	167,400	ton	261.00	43,691,000
Season Total	1996	9,300	16.35	152,100	ton	221.00	33,614,000
Naked				39,700	ton		
Wrapped				76,900	ton		
Bulk				70,100	ton		
Fall	1997	10,400	17.95	186,700	ton	405.00	75,614,000
Season Total	1996	8,700	19.84	172,600	ton	304.00	52,470,000
Head Lettuce Totals	1997	20,300		354,100			119,305,000
	1996	18,000		324,700			86,084,000
Melons							
Cantaloupe ^b	1997	27,400	11.86	325,000	ton	215.00	69,875,000
	1996	25,700	12.68	326,000	ton	205.00	66,830,000

VEGETABLE CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Melons (continued)							
Honeydew	1997	5,400	12.50	67,500	ton	\$ 226.00	\$ 15,255,000
	1996	3,900	10.10	39,400	ton	\$ 267.00	\$ 10,520,000
Mixed Melons ^d	1997	1,460	10.68	15,600	ton	302.00	4,711,000
	1996	2,000	9.15	18,300	ton	288.00	5,270,000
Watermelon	1997	1,300	35.38	46,000	ton	156.00	7,176,000
	1996	1,180	23.14	27,300	ton	130.00	3,549,000
Onions							
Fresh	1997	4,400	21.82	96,000	ton	227.00	21,792,000
	1996	4,200	25.24	106,000	ton	192.00	20,352,000
Processed	1997	10,800	17.22	186,000	ton	74.00	13,764,000
	1996	9,800	18.88	185,000	ton	76.00	14,060,000
Oriental Vegetables ^e	1997	1,290	6.90	8,900	ton	625.00	5,563,000
	1996	1,310	11.37	14,900	ton	605.00	9,015,000
Squash ^f	1997	820	7.07	5,800	ton	367.00	2,129,000
	1996	950	7.16	6,800	ton	470.00	3,196,000
Sweet Corn	1997	3,700	11.24	41,600	ton	268.00	11,149,000
	1996	2,900	10.83	31,400	ton	270.00	8,478,000
Tomatoes							
Fresh							
Cherry	1997	250	9.20	2,300	ton	1,137.00	2,615,000
	1996	370	10.00	3,700	ton	594.00	2,198,000
Standard	1997	4,650	16.77	78,000	ton	365.00	28,470,000
	1996	9,000	13.22	119,000	ton	421.00	50,099,000
Processed	1997	95,000	39.15	3,719,000	ton	51.00	189,669,000
	1996	99,000	39.80	3,940,000	ton	52.00	204,880,000

VEGETABLE CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Other ^a	1997	9,730					\$ 35,189,000
	1996	<u>13,880</u>					\$ <u>53,571,000</u>
Total	1997	223,530					\$681,390,000
	1996	229,640					\$692,178,000

a Not previously reported separately

b Includes fresh and processed

c Includes Chinese, globe, Italian, and Japanese varieties

d Includes casaba, crenshaw, Juan Canary, Persian, Santa Claus, and Sharlyn

e Includes bittermelon, baby bok choy, Shanghai bok choy, bok choy, burdock, daikon, donqua, gai choy, gailon, lemon grass, lo bok, long beans, moqua, napa, opo, sinqua, sugar peas, sugar pea tips (shoots), taro, and yu choy

f Includes soft and hard types

g Includes artichoke; arugula; basil; fava beans; green beans; lima beans (processed); beets; cabbage; cauliflower; carrots; celery; red and Swiss chard; chicory; cilantro; collards; cornnuts; tortilla corn; cucumber; dandelion greens; dill; endive; kale; kohlrabi; leeks; leaf and romaine lettuce; mint; mushrooms; mustard greens; okra; green onions; **organic:** green string beans, broccoli (processed), carrots, garlic (processed), onions (processed), freezer peas, spinach, winter and zucchini squash; parsley; parsnips; peas; chili peppers; pimientos; potatoes; pumpkins; radishes; rosemary; sage; spinach; spice mix; sugarcane; sunchoke; sweet potatoes/yams; tarragon; thyme; tomatillos; and turnips

FRUIT AND NUT CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Almonds	1997	45,529	1.19	54,200	ton	\$3,400.00	\$ 184,280,000
	1996	43,771	.71	31,100	ton	\$4,160.00	\$ 129,376,000
Almond Hulls	1997			103,000	ton	85.00	8,755,000
	1996			59,100	ton	80.00	4,728,000
Apples	1997	4,748	11.52				
	1996	4,578	12.89				
Fresh	1997			46,000	ton	614.00	28,244,000
	1996			44,000	ton	740.00	32,560,000
Processed	1997			8,700	ton	75.00	653,000
	1996			15,000	ton	108.00	1,620,000
Apricots	1997	1,396	7.74	10,800	ton	855.00	9,234,000
	1996	1,367	3.00	4,100	ton	1,245.00	5,105,000
Citrus							
Lemons	1997	934	17.84				
	1996	908	11.07				
Fresh	1997			12,400	ton	490.00	6,076,000
	1996			7,260	ton	464.00	3,369,000
Processed	1997			4,260	ton	123.00	524,000
	1996			2,790	ton	70.00	195,000
Citrus, other ^a	1997	924	11.00				
	1996	838	10.63				
Fresh	1997			7,900	ton	570.00	4,503,000
	1996			4,930	ton	497.00	2,450,000
Processed	1997			2,260	ton	30.00	67,800
	1996			3,980	ton	72.00	287,000
Oranges							
Navel	1997	20,571	11.15				
	1996	20,111	10.11				
Fresh	1997			190,000	ton	427.00	81,130,000
	1996			148,000	ton	411.00	60,828,000
Processed	1997			39,500	ton	31.00	1,225,000
	1996			55,300	ton	48.00	2,654,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Oranges (continued)							
Valencia	1997	5,583	12.62				
	1996	5,571	12.82				
Fresh	1997			57,200	ton	446.00	\$ 25,511,000
	1996			53,600	ton	534.00	\$ 28,622,000
Processed	1997			13,300	ton	80.00	1,064,000
	1996			17,800	ton	96.00	1,709,000
Oranges Total	1997	26,154					108,930,000
	1996	25,682					93,813,000
Figs, dried ^b	1997	2,623	.89	2,330	ton	1,064.00	2,479,000
	1996	2,641	.79	2,090	ton	1,014.00	2,119,000
Grapes							
Raisin Varieties	1997	169,876	11.31				
	1996	169,137	8.48				
Canned	1997			20,300	ton	219.00	4,446,000
	1996			9,160	ton	240.00	2,198,000
Crushed	1997			494,000	ton	186.00	91,884,000
	1996			385,000	ton	191.00	73,535,000
Dried	1997			321,000	ton	951.00	305,271,000
	1996			233,000	ton	1,056.00	246,048,000
Fresh	1997			71,700	ton	880.00	63,096,000
	1996			59,300	ton	915.00	54,260,000
Juice	1997			3,130	ton	525.00	1,643,000
	1996			2,940	ton	520.00	1,529,000
Table Varieties	1997	10,099	9.65				
	1996	10,372	8.77				
Crushed	1997			25,800	ton	156.00	4,025,000
	1996			19,400	ton	188.00	3,647,000
Fresh	1997			71,700	ton	1,034.00	74,138,000
	1996			71,600	ton	1,198.00	85,777,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Grapes (continued)							
Wine Varieties	1997	39,181	11.12				
	1996	37,304	8.60				
Crushed	1997			431,000	ton	\$ 268.00	\$ 115,508,000
	1996			314,000	ton	\$ 267.00	\$ 83,838,000
Juice	1997			4,700	ton	652.00	3,064,000
	1996			6,990	ton	645.00	4,509,000
Grapes Total	1997	219,156					663,075,000
	1996	216,813					555,341,000
Kiwi Fruit	1997	425	3.69	1,570	ton	840.00	1,319,000
	1996	428	3.46	1,480	ton	1,150.00	1,702,000
Nectarines	1997	15,710	9.48	149,000	ton	660.00	98,340,000
	1996	15,444	9.07	140,000	ton	780.00	109,200,000
Olives, canned ^b	1997	1,458	3.43	5,000	ton	661.00	3,305,000
	1996	1,402	6.74	9,450	ton	648.00	6,124,000
Peaches							
Cling	1997	1,716	13.99	24,000	ton	218.00	5,232,000
	1996	1,826	17.63	32,200	ton	201.00	6,472,000
Freestone	1997	14,441	9.63	139,000	ton	636.00	88,404,000
	1996	14,569	8.79	128,000	ton	887.00	113,536,000
Peaches Total	1997	16,157					93,636,000
	1996	16,395					120,008,000
Pears, Asian	1997	572	7.64	4,370	ton	1,172.00	5,122,000
	1996	667	6.22	4,150	ton	883.00	3,665,000
Persimmons	1997	442	10.18	4,500	ton	1,090.00	4,905,000
	1996	427	8.24	3,520	ton	1,228.00	4,323,000
Pistachios	1997	3,746	1.72	6,440	ton	2,471.00	15,913,000
	1996	3,635	.65	2,360	ton	2,622.00	6,188,000
Plums	1997	16,614	7.82	130,000	ton	658.00	85,540,000
	1996	17,146	6.36	109,000	ton	780.00	85,020,000

FRUIT AND NUT CROPS: (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Pomegranates	1997	1,096	6.75	7,400	ton	\$ 843.00	\$ 6,238,000
	1996	1,088	7.11	7,740	ton	\$ 965.00	\$ 7,469,000
Prunes, dried	1997	2,489	4.06	10,100	ton	807.00	8,151,000
	1996	2,191	2.83	6,200	ton	1,100.00	6,820,000
Strawberries ^c	1997	441	17.46	7,700	ton	708.00	5,452,000
	1996	524	13.85	7,260	ton	745.00	5,409,000
Walnuts	1997	2,935	1.76	5,170	ton	1,685.00	8,712,000
	1996	3,041	1.73	5,260	ton	1,665.00	8,758,000
Other ^d	1997	1,238					9,106,000
	1996	<u>1,053</u>					<u>4,725,000</u>
Total	1997	364,787					\$ 1,362,559,800
	1996	360,039					\$ 1,200,374,000

a Includes blood oranges, grapefruit, mandarin/tangerines, minneola/tangelos, and pummelos

b Acres packed, fresh or processed, are included in other fruit and nut crops: 144 acres figs, 75 acres olives

c Includes fresh and processed

d Includes avocados, fresh and processed boysenberries, blackberries, cherries, fresh figs, substandard figs, fig paste, processed kiwi fruit, olive oil, olallieberries, processed apricots, processed grape leaves, processed nectarines, processed peaches, processed plums, plumcots, pecans, and quince

NURSERY PRODUCTS

ITEM	YEAR	ACRES	QUANTITY	UNIT	VALUE
Christmas Trees	1997	32	2,460	trees	\$ 49,200
	1996	37	4,250	trees	\$ 84,500
Herbaceous Ornamentals ^a	1997	30	216,000	b	1,004,000
	1996	26	208,000	b	1,536,000
Ornamental Trees and Shrubs	1997	55	1,572,000	plants	6,454,000
	1996	50	1,218,000	plants	4,706,000
Other ^c	1997	780	85,626,000	plants	29,330,000
	1996	<u>490</u>	58,136,000	plants	<u>10,520,000</u>
Total	1997	897			\$36,837,200
	1996	603			\$16,846,500

a Includes cut flowers, cut greens, potted plants, bedding plants, and herbaceous perennials

b Includes flats, dozens, cans, and single plants

c Includes bareroot fruit trees, budwood, citrus trees, grape rootings and cuttings, and vegetable plants

LIVESTOCK AND POULTRY

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Cattle and Calves						
Beef						
Breeding Stock						
Common	1997	1,360		head	\$ 570.00	\$ 775,000
	1996	1,380		head	\$ 440.00	\$ 607,000
Registered	1997	340		head	1,191.00	405,000
	1996	350		head	920.00	322,000
Feeders	1997	153,000	306,000	cwt.	78.40	23,990,000
	1996	176,000	353,000	cwt.	57.40	20,262,000
Calves	1997	23,800	71,400	cwt.	86.81	6,198,000
	1996	24,300	72,800	cwt.	62.10	4,521,000
Slaughter Stock	1997	228,000	1,094,000 ^a	cwt.	67.19	73,506,000
	1996	227,000	1,088,000 ^a	cwt.	62.78	68,305,000
Dairy						
Breeding Stock	1997	9,970		head	1,250.00	12,463,000
	1996	9,640		head	1,190.00	11,472,000
Cull Stock	1997	22,400	291,000	cwt.	35.10	10,214,000
	1996	23,000	298,000	cwt.	32.30	9,625,000
Calves	1997	17,900	53,800	cwt.	53.00	2,851,000
	1996	18,400	55,200	cwt.	48.70	2,688,000
Cattle and Calves Total	1997					130,402,000
	1996					117,802,000
Hogs and Pigs						
Feeder Pigs and Slaughter Stock	1997	24,800	50,400	cwt.	57.92	2,919,000
	1996	27,800	56,400	cwt.	55.11	3,108,000

LIVESTOCK AND POULTRY (continued)

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Sheep and Lambs						
Slaughter Stock						
Lambs	1997	50,900	57,300	cwt.	\$ 97.99	\$ 5,615,000
	1996	46,800	44,400	cwt.	\$ 90.23	\$ 4,006,000
Sheep	1997	12,000	16,800	cwt.	36.01	605,000
	1996	11,900	16,700	cwt.	26.95	450,000
Turkeys	1997	3,827,000	88,978,000	lb.	.58	51,607,000
	1996	4,910,000	106,793,000	lb.	.65	69,415,000
Other ^b	1997					290,135,000
	1996					<u>288,623,000*</u>
Total	1997					\$481,283,000
	1996					\$483,404,000

a Net gain

b Includes chickens, chicks, fryers, old breeder birds, broilers, and roasters; fish; game birds; ostriches; squab; turkey poults and old turkey breeder birds; cull milk goats, milk goats, and kid goats

***** Revised to include ostriches

LIVESTOCK AND POULTRY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
Manure	1997	585,000	ton	\$ 6.72	\$ 3,931,000
	1996	553,000	ton	\$ 5.93	\$ 3,279,000
Milk					
Manufacturing	1997	51,300	cwt.	11.07	568,000
	1996	128,000	cwt.	11.69	1,496,000
Market ^a	1997	15,448,000	cwt.	12.45	192,328,000
	1996	14,609,000	cwt.	13.54	197,806,000
Wool	1997	600,000	lb.	.97	582,000
	1996	478,000	lb.	.80	382,000
Eggs					
Chicken & Turkey ^b	1997	978,000	dozen	5.93	5,800,000
	1996	1,086,000	dozen	6.22	6,755,000
Total	1997				\$203,209,000
	1996				\$209,718,000

a Includes cow and goat milk

b Includes market eggs and hatching eggs

APIARY PRODUCTS AND POLLINATION SERVICES

ITEM	YEAR	PRODUCTION TOTAL	UNIT	VALUE	
				PER UNIT	TOTAL
Apiary Products ^a					
Honey	1997	2,612,000	lb.	\$.72	\$ 1,881,000
	1996	1,796,000	lb.	\$.82	\$ 1,473,000
Beeswax	1997	88,000	lb.	1.72	151,000
	1996	64,800	lb.	2.22	144,000
Pollination ^b					
Alfalfa Seed	1997	53,800	colony	23.70	1,275,000
	1996	63,500	colony	21.12	1,341,000
Trees, Fruit and Nut ^c	1997	120,000	colony	39.00	4,680,000
	1996	111,000	colony	38.00	4,218,000
Cantaloupe	1997	32,200	colony	15.50	499,000
	1996	49,200	colony	16.50	<u>812,000</u>
Total	1997				\$ 8,486,000
	1996				\$ 7,988,000

a Reflects bee colonies registered in Fresno County by commercial and semi-commercial beekeepers:
1997 - 52,364 colonies; 1996 - 39,260 colonies

b Reflects value of pollination by all bee colonies located in Fresno County for pollination services during 1997. Estimated total colonies: 96,222

c Almonds, cherries, and plums

INDUSTRIAL CROPS

CROP	YEAR	PRODUCTION	UNIT (a)	VALUE (b)
Timber	1997	38,441,000	board feet	\$ 10,650,000
	1996	40,471,000	board feet	\$ 11,460,000
Firewood	1997	8,570	cords	44,500
	1996	10,100	cords	<u>52,300</u>
Total	1997			\$ 10,694,500
	1996			\$ 11,512,300

a Board feet is the quantity of timber cut and sealed

b Value of timber immediately prior to cutting

**GROWTH IN FRESNO COUNTY AGRICULTURE AS INDICATED BY GROSS PRODUCTION
VALUE OF AGRICULTURAL PRODUCTS OVER A TWENTY - ONE YEAR SPAN**

1977 - \$1,110,424,200*	1988 - \$2,444,732,600*
1978 - 1,241,033,100*	1989 - 2,607,648,800*
1979 - 1,719,235,500	1990 - 2,949,484,000*
1980 - 2,002,448,900*	1991 - 2,552,305,040*
1981 - 1,905,289,240*	1992 - 2,635,447,400*
1982 - 1,855,733,500	1993 - 3,022,311,100*
1983 - 1,727,319,500	1994 - 3,084,870,800
1984 - 1,921,020,840*	1995 - 3,142,878,300*
1985 - 2,054,060,400*	1996 - 3,324,885,800
1986 - 2,125,721,200*	1997 - 3,435,271,500
1987 - 2,264,044,000*	

SIX YEAR COMPARISON OF GROSS PRODUCTION VALUE IN FRESNO COUNTY

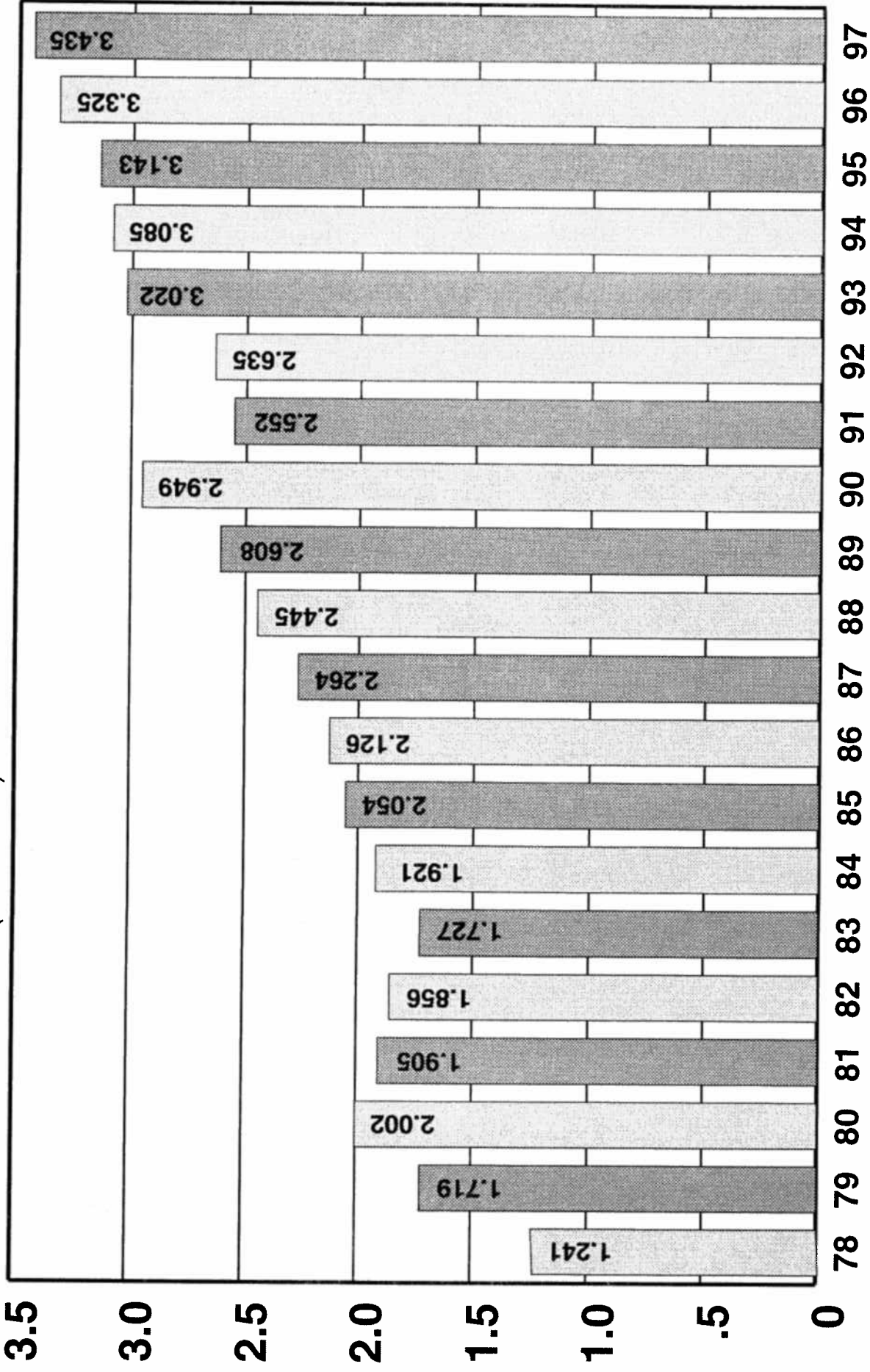
	1977	1987	1994	1995	1996	1997
Field Crops	\$ 309,253,000*	\$ 603,341,000	\$ 661,062,000	\$ 643,647,000	\$ 674,854,000	\$ 626,737,000
Seed Crops	22,046,000	37,921,000	38,398,000	29,892,000	28,011,000	24,075,000
Vegetable Crops	139,249,000*	432,514,000	674,231,000	734,669,000	692,178,000	681,390,000
Fruit & Nut Crops	422,306,200*	746,702,000	992,109,900	1,052,081,200	1,200,374,000	1,362,559,800
Nursery Products	3,158,000	12,729,000	23,945,000	16,211,000*	16,846,500	36,837,200
Livestock & Poultry	211,720,000*	420,169,000*	673,275,000	652,028,000	693,122,000	684,492,000
Apiary	2,692,000	7,021,000	6,015,000	7,020,700	7,988,000	8,486,000
Industrial Crops	+	3,647,000	15,834,900	7,329,400	11,512,300	10,694,500
TOTAL	\$1,110,424,200*	\$2,264,044,000*	\$3,084,870,800	\$3,142,878,300*	\$3,324,885,800	\$3,435,271,500

*Revised

+Not reported

GROWTH OF FRESNO COUNTY AGRICULTURE OVER A TWENTY YEAR SPAN

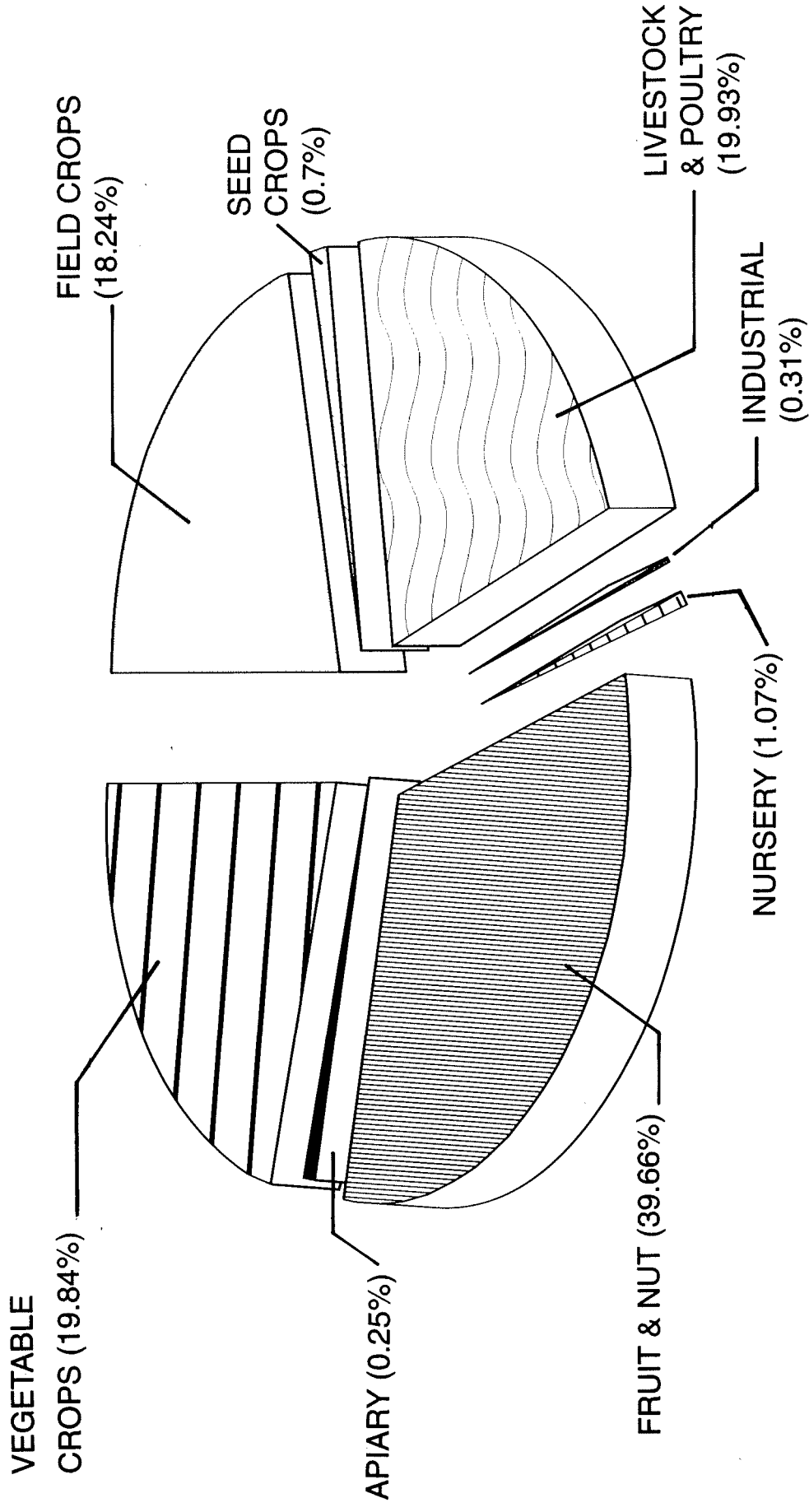
Gross Production Value (in billions)



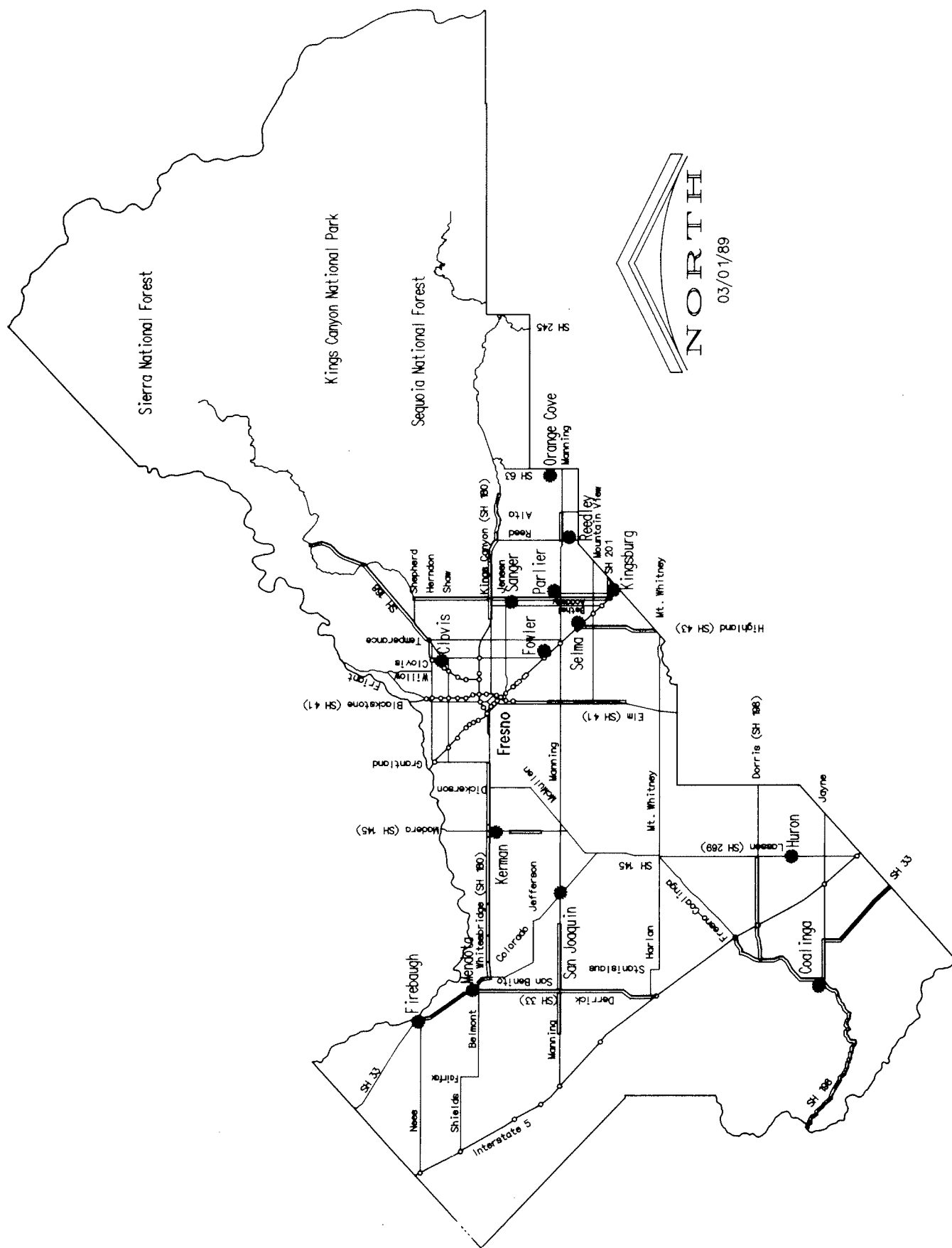
1978 through 1997

RELATIONSHIP IN TERMS OF TOTAL VALUE

CROP REPORT YEAR 1997



TOTAL VALUE \$3,435,227,500





Department of Agriculture

Cosmo C. Insalaco
Agricultural Commissioner
Sealer of Weights & Measures

William J. Lyons, Jr., Secretary
California Department of Food and Agriculture

The Honorable Board of Supervisors
County of Fresno

Sharon Levy, Chairman
Juan Arambula Deran Koligian
Judy Case Stan Oken

Linzie L. Daniel
Interim County Administrative Officer

I am pleased to submit the 1998 Fresno County Agricultural Crop and Livestock Report. This annual compilation presents statistical data pertaining to the acreage, yield, and gross value of Fresno County agricultural products.

The total gross production value of Fresno County agricultural commodities in 1998 was \$3,292,951,900. This represents a 4.18 percent decrease from the 1997 gross production value. This reduction was a direct result of the El Niño phenomenon. In addition to excessive rainfall and flooding, growers also had to contend with below-normal temperatures for most of the growing season.

It must be emphasized that the values presented in this report reflect gross values only, and do not in any manner reflect net income or loss to producers.

Agriculture continues as the major industry in Fresno County and is a driving force in the county's economy. Every dollar received by Fresno County producers results in the economic extension benefit of three and one-half dollars to the total economy of the county.

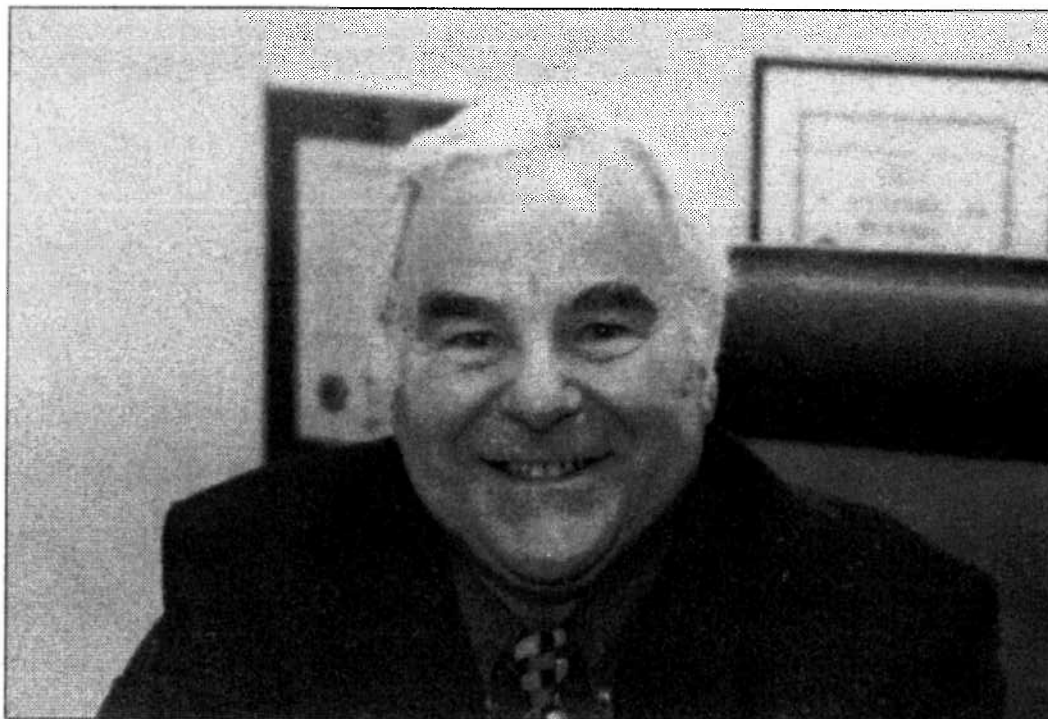
I sincerely appreciate the professional and dedicated work performed by Deputy Agricultural Commissioner/Sealer Dennis C. Plann, Supervising Agricultural/Standards Specialist Bruce Clayton, Agricultural/Standards Specialists Scotti Walker and Katherine C. de Contreras, as well as the rest of my staff at the Department of Agriculture for the preparation of this report.

My thanks to the many individuals, related agencies, and members of the agricultural industry for their contributions in the compilation of this report.

Best Regards,

A handwritten signature in black ink, appearing to read "Robert D. Vandergon".

Robert D. Vandergon
Interim Agricultural Commissioner/Sealer



DEDICATION

COSMO C. INSALACO

**The 1998 Crop Report is dedicated to retired
Agricultural Commissioner/Sealer Cosmo C. Insalaco
in honor and recognition of his commitment, leadership,
and twenty-one years of dedicated service to
the Agricultural Industry and citizens of Fresno County,
the number one agricultural county in the United States.**

"...One of the great lessons of history is that no nation can be stronger than its agriculture. Hungry and ill-nourished people cannot practice the art of democratic government and peaceful commerce. Peace cannot be built on a foundation of human want."

Harry S. Truman

July 7, 1947

"My Favorite Town --- Fresno, California. But oh! The weather there, the heavenly weather there in the spring, the summer, the autumn, the fall, the winter --- the hot sun and the heavy rain, the new green of spring and the fire-golden of fall: the farmer's weather of Fresno, in which I lived and became a part of the human race. The last thing I shall forget is the weather there."

William Saroyan

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This report is also available at our internet site:
<http://www.fresno.ca.gov/4010/agwelcm.htm>

FRESNO COUNTY'S 10 LEADING CROPS

Crop	1998 Rank	1998 Dollar Value	1997 Rank	1988 Rank	1978 Rank
GRAPES	1	\$ 569,208,000	1	1	1
POULTRY	2	438,569,000	3	*	*
COTTON	3	308,231,000	2	2	2
TOMATOES	4	243,846,000	4	3	5
MILK	5	229,158,000	6	5	4
PEACHES	6	137,915,000	12	10	13
ALMONDS	7	125,173,000	5	13	17
CATTLE AND CALVES	8	124,903,000	7	4	3
ORANGES	9	124,899,000	9	9	8
HEAD LETTUCE	10	112,924,000	8	14	7
TOP TEN TOTAL		\$2,414,826,000			

* Not previously combined for ranking purposes

1998 Highlights in Retrospect

January:

Peaches, plums, nectarines, almonds, and grapes were pruned. New almond orchards were planted. Early varieties of nectarines and plums were in bloom. The cotton plowdown was complete and growers applied pre-emergent herbicides to spring planting beds. Spring lettuce, onion, and garlic plantings were irrigated. Cold temperatures caused damage to the citrus crop.

February:

A series of storms, beginning on February 5, 1998, brought high winds and flooding that caused 1.8 million dollars in damage to Fresno County agriculture. Field work was at a standstill because of wet soil conditions. When weather permitted, stone fruit and nut growers pruned trees and sprayed to control weeds in their orchards. Almond growers were cutting and removing fallen trees. The broccoli harvest was delayed due to rain, and young lettuce plantings were treated to control mildew. Bok choy, radicchio, napa cabbage, gailon, and lo bok were harvested.

March:

Early varieties of peach, plum, nectarine and almond trees were leafing out. Workers had nearly finished pruning and tying grape vines. Grain fields were heading out. Growers pre-irrigated cotton, field corn, and silage corn fields. Olive trees were pruned and citrus trees had started to develop new growth. Spring lettuce fields were weeded. Heavy rain and hail near the end of the month caused nearly five million dollars damage to almonds, grapes, stone fruit, lettuce, processing tomatoes, cotton, and cantaloupes. Oranges, lemons, tangelos, broccoli, sugar peas, celery, cilantro, and parsley were harvested.

April:

Most field operations were either slowed or stopped by wet field conditions. Cotton planting did not start until late in the month. Alfalfa hay was cut and baled. Growers had to pump water out of orchards and vineyards. Peach, plum, apricot, and nectarine fruit were thinned. The orange bloom was declared. Avocado, apple, and cherry trees were in bloom. Melons, tomatoes, and sweet corn were planted. Asparagus, broccoli, and leaf and head lettuce were harvested.

May:

Rain again delayed cotton planting. Some growers were forced to pump water from flooded fields. Governor Wilson signed an executive order that allowed cotton growers to plant shorter season varieties of non-acala upland cotton. Early Best peaches were harvested. Growers reported extensive losses of Brooks and Garnet varieties of cherries because of cracking. Pomegranates were in bloom. Apple growers reported a heavy fruit set. Red onions were topped in preparation of harvest.

June:

Rain and hail storms on Saturday, June 6, caused over 17 million dollars in damage to Fresno County agriculture. Most crops were three to four weeks behind schedule because of rain and cool weather. Cotton fields were weeded, thinned, irrigated and treated to control lygus. Growers planted rice fields. Seed alfalfa fields were in full bloom. The head and leaf lettuce harvest finished. Table grape growers thinned bunches.

July:

Cotton and safflower were in bloom. Field and silage corn fields were irrigated and cultivated to control weeds. Walnut growers whitewashed trees to protect them from sunburn. The cantaloupe and watermelon harvests started. Almond growers prepared orchard floors for harvest.

August:

The seed alfalfa and safflower harvests began. Rice fields were maturing. The raisin harvest started. Granny Smith apples were released for packing. Almonds, stone fruit, apples, Asian pears, figs, oranges, lemons, melons, eggplant, garlic, peppers, beans, sweet potatoes, cucumbers, beets, turnips, squash, tomatoes, radishes, and oriental pumpkins were harvested.

September:

Cotton defoliation began in the latter half of the month. The last fields of uncertified wheat and barley were harvested and the stubble was burned off. Beans were drying in the field. Nearly all the raisin crop had been harvested. The pistachio and walnut harvests began. Dried figs were picked up. The fall lettuce, cabbage, and broccoli crops were treated for worms. The first of the fall strawberries were harvested as the plants continued to bloom.

October:

The cotton harvest started and some fields were immediately shredded and disced. The seed alfalfa harvest was finishing and growers burned off the stubble and chaff. Corn silage and field corn were harvested. Raisin drying conditions were poor as a result of cool weather. Pecan orchards were irrigated. The stone fruit season was nearly finished. Persimmons, quince, kiwi fruit, and lettuce were harvested.

November:

Spring lettuce, red onions, broccoli, and cabbage were planted. Alfalfa hay fields had started to go dormant for the winter. New plantings of sugar beets were growing well. Both vineyards and stone fruit orchards were pruned and cultivated. Navel oranges, satsuma mandarins, and lemons were harvested.

December:

Freezing temperatures during the period of December 22 through December 27, 1998, caused \$90,707,926 damage to Fresno County agriculture. Hardest hit, the citrus industry lost \$86,299,248 in the freeze. The cotton harvest was nearly finished and 98 percent of the fields were in compliance with plowdown regulations. Growers pruned, applied soil amendments, and cultivated or sprayed for weeds in vineyards and fruit orchards. Broccoli, cabbage, and cauliflower were harvested.

FIELD CROPS: Total gross returns for all field crops decreased by \$160,181,000, from \$626,737,000 to \$466,556,000, and plantings were down 43,800 acres to 1,470,800 acres. Cotton, the county's third most valuable crop, decreased in value by 32.75 percent, from \$458,017,000 to \$308,038,000. Acreage for acala varieties of upland cotton was down 118,000 acres while pima plantings increased 22,100 acres. This year 15,700 acres of non-acala upland cotton with a value of \$13,111,000 were planted for the first time. Barley acreage decreased 41.77 percent and the gross returns were down \$1,820,000. Rice plantings increased by 400 acres, but an \$8.00 per ton decrease in price resulted in a reduced crop value of \$572,000. The value of sugar beets was up from \$24,297,000 to \$29,896,000.

SEED CROPS: Total gross returns for seed crops increased by 34.51 percent, from \$24,075,000 to \$32,384,000; the harvested acreage was up 14,500 acres. The returns for seed alfalfa were up by \$5,802,000, from \$21,809,000 to \$27,611,000. Vegetable seed returns increased over two and one-half times, from \$879,000 to \$3,100,000. Certified wheat seed plantings were up 960 acres and the crop value increased \$102,000.

VEGETABLE CROPS: The total gross returns for all vegetable crops increased \$10,550,000, from \$681,390,000 to \$691,940,000. Production per acre was down for most crops. The value of the head lettuce crop decreased \$6,381,000, from \$119,305,000 to \$112,924,000. Tomatoes, fourth on the county's top ten list of commodities, were up \$23,092,000, from \$220,754,000 to \$243,846,000. The value of the onion crop was up 9.54 percent and the gross returns for garlic were down \$1,676,000. Sweet corn increased in value 144 percent as a result of a 7,400 acre increase in planting and a slight increase in production. Oriental vegetable production was down \$764,000 as a result of decreases in production and the price paid per ton.

FRUIT AND NUT CROPS: Total gross returns for all fruit and nut crops decreased by 8.42 percent or \$114,765,800, from \$1,362,559,800 to \$1,247,794,000. Almond returns were down by 35.16 percent, from \$193,035,000 to \$125,173,000, reflecting a 860 pound reduction in yield per acre. Apricot production was down 2.50 tons per acre, resulting in a decrease in crop value of \$2,372,000. The value of the orange crop increased 14.66 percent or \$15,969,000; navels were up \$9,350,000 and valencias increased \$6,619,000. Grapes, again the number one crop on the county's top ten list, were down 14.16 percent, from \$663,075,000 to \$569,208,000. The value of the peach crop was up 47.29 percent and plums increased in value by \$11,662,000. The value of the walnut crop was up \$2,068,000 as a result of increases in planted acres and the price paid per ton.

NURSERY: The gross returns from sales of nursery products decreased 19.71 percent or \$7,261,600, from the 1997 figure of \$36,837,200. The value of herbaceous ornamentals (cut flowers, cut greens, potted plants, bedding plants, and herbaceous perennials) increased \$1,155,000, while ornamental trees and shrubs were up \$565,000. The other category, which includes bareroot fruit trees, budwood, citrus trees, grape rootings and cuttings, and vegetable plants, was down 30.53 percent, from \$29,330,000 to \$20,377,000.

LIVESTOCK AND POULTRY: Total gross returns for livestock and poultry increased \$87,754,000, from \$482,455,000 to \$570,209,000. Poultry was second on the county's top ten list, with a value of \$438,569,000. Cattle and calves dropped from seventh to eighth on the top ten list with a value of \$124,903,000. The value of hogs and pigs was down \$1,101,000 as a result of a 37.85 percent reduction in the price paid per hundred weight. The total value of lambs and sheep decreased \$1,377,000 from \$6,220,000 to \$4,843,000. The price per hundred weight was down by \$5.24 for sheep and \$22.49 for lambs.

LIVESTOCK AND POULTRY PRODUCTS: Total gross returns for livestock and poultry products increased by \$36,085,000, to \$239,294,000. Milk moved up on the county's top ten list from sixth to fifth with a value of \$229,158,000. The value of turkey and chicken eggs for hatching and commercial use declined to \$4,541,000. Manure production was up by 32,000 tons.

APIARY PRODUCTS AND POLLINATION SERVICES: Gross returns for apiary products and pollination services increased \$522,000, from \$8,486,000 to \$9,008,000. Honey was down \$862,000 and beeswax decreased \$72,000. The total value of pollination services, which includes alfalfa seed, tree fruit, and cantaloupe acreage, increased by \$1,456,000 to \$7,910,000.

INDUSTRIAL CROPS: The total gross returns for industrial crops decreased by \$4,503,000, from \$10,694,500 to \$6,191,300. The timber harvest decreased by 15,214,000 board feet, which represents a 39.58 percent decline in production.

FIELD CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Barley	1998	6,580	2.19	14,400	ton	\$ 110.00	\$ 1,584,000
	1997	11,300	2.47	27,900	ton	\$ 122.00	\$ 3,404,000
Beans, dry ^a	1998	15,300	1.14	17,400	ton	704.00	12,250,000
	1997	22,900	1.14	26,100	ton	549.00	14,329,000
Corn							
Grain	1998	7,400	5.30	39,200	ton	124.00	4,861,000
	1997	9,100	4.86	44,200	ton	127.00	5,613,000
Silage	1998	17,700	24.92	441,000	ton	22.00 ^b	9,702,000
	1997	18,900	25.61	484,000	ton	24.00 ^b	11,616,000
Cotton, Upland (Acala)							
Lint	1998	200,000	1,038 ^c	415,000 ^d	bale	.77 ^e	161,053,000
	1997	318,000	1,300 ^e	827,000 ^d	bale	.75 ^e	312,606,000
Seed	1998			166,000	ton	195.00	32,370,000
	1997			301,000	ton	176.00	52,976,000
Cotton, Upland (Non-Acala) ^f							
Lint	1998	15,700	959 ^c	30,100 ^d	bale	.71 ^e	10,771,000
	1997						
Seed	1998			12,000	ton	195.00	2,340,000
	1997						
Cotton, Pima							
Lint	1998	86,700	1,021 ^c	177,000 ^d	bale	.98 ^e	87,424,000
	1997	64,600	1,238 ^c	160,000 ^d	bale	1.01 ^e	81,446,000
Seed	1998			75,700	ton	186.00	14,080,000
	1997			66,200	ton	166.00	10,989,000
Hay							
Alfalfa	1998	76,300	7.04	537,000	ton	109.00	58,533,000
	1997	65,300	8.15	532,000	ton	129.00	68,628,000
Other ^g	1998	46,800	1.31	61,300	ton	94.00	5,762,000
	1997	28,300	1.41	39,900	ton	96.00	3,830,000

FIELD CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Pasture and Range							
Field	1998	14,700			acre	\$ 32.58	\$ 479,000
Stubble ^h	1997	26,600			acre	\$ 23.68	\$ 630,000
Irrigated	1998	40,000			acre	110.00	4,400,000
Pasture	1997	40,000			acre	110.00	4,400,000
Grazing	1998	850,000			acre	7.00	5,950,000
Range	1997	850,000			acre	7.00	5,950,000
Rice	1998	5,800	2.62	15,200	ton	172.00	2,614,000
	1997	5,400	3.28	17,700	ton	180.00	3,186,000
Safflower	1998	2,840	1.40	3,980	ton	280.00	1,114,000
	1997	3,900	1.52	5,930	ton	310.00	1,838,000
Sugar Beets	1998	27,800	29.06	808,000	ton	37.00	29,896,000
	1997	19,700	31.62	623,000	ton	39.00	24,297,000
Wheat	1998	64,300	2.29	147,000	ton	127.00	18,669,000
	1997	46,900	2.67	125,000	ton	146.00	18,250,000
Other ⁱ	1998	7,580					2,704,000
	1997	<u>10,300</u>					<u>2,749,000</u>
Total	1998	1,470,800					\$466,556,000
	1997	1,514,600					\$626,737,000

a Includes black, black-eyed, garbanzo, great northern, baby and large lima, pinto, and red kidney beans

b Field price

c Pounds of lint per acre

d 500 pounds lint per bale

e Price per pound, 504 pounds gross weight per bale

f Not previously planted in Fresno County

g Includes hay from alfalfa seed, oats, and sudan

h Not included in total field crop acreage; includes acreage from alfalfa hay and seed alfalfa, barley, broccoli, beans, melons, oats, and wheat

i Includes barley silage, oats, sorghum, straw, wheat silage, and winter forage

SEED CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Alfalfa	1998	27,800	490	13,622,000	lb.	\$1.70	\$23,157,000
Certified	1997	19,600	650	12,740,000	lb.	\$1.60	\$20,384,000
Non-Certified	1998	5,800	480	2,784,000	lb.	1.60	4,454,000
	1997	1,900	500	950,000	lb.	1.50	1,425,000
Alfalfa Seed	1998	33,600		16,406,000	lb.		27,611,000
Total	1997	21,500		13,690,000	lb.		21,809,000
Cotton ^a	1998	4,600		1,930,000	lb.	.10	193,000
	1997	5,800		4,060,000	lb.	.09	365,000
Vegetable ^b	1998	1,950					3,100,000
	1997	900					879,000
Wheat	1998	2,560	4,500	11,520,000	lb.	.07	806,000
Certified	1997	1,600	5,500	8,800,000	lb.	.08	704,000
Other ^c	1998	860					674,000
	1997	<u>470</u>					<u>318,000</u>
Total	1998	38,970					\$32,384,000
	1997	24,470					\$24,075,000

^a Included in field crop acreage

^b Broccoli, cabbage, napa, cucumber, lettuce, mustard, onion, pepper, radicchio, radish, squash, and tomato

^c Black-eyed beans, corn, oats, pink-eyed beans, sudan grass, and triticale

VEGETABLE CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Asparagus ^a	1998	2,680	2.09	5,600	ton	\$1,800.00	\$ 10,080,000
	1997	2,360	2.97	7,000	ton	\$2,344.00	\$ 16,408,000
Bell Peppers ^a	1998	1,480	14.59	21,600	ton	350.00	7,560,000
	1997	2,400	16.67	40,000	ton	323.00	12,920,000
Broccoli ^a	1998	9,000	4.82	43,400	ton	400.00	17,360,000
	1997	8,200	5.41	44,400	ton	439.00	19,492,000
Eggplant ^b	1998	990	8.02	7,940	ton	607.00	4,820,000
	1997	770	16.62	12,800	ton	550.00	7,040,000
Garlic							
Fresh	1998	7,500	4.59	34,400	ton	1,870.00	64,328,000
Processed	1998	22,700	4.58	104,000	ton	316.00	32,864,000
	1997 ^a	23,300	9.18	214,000	ton	462.00	98,868,000
Head Lettuce							
Naked				37,500	ton		
Wrapped				88,200	ton		
Bulk				73,600	ton		
Spring	1998	9,640	20.67	199,300	ton	371.00	73,940,000
Season Total	1997	9,900	16.91	167,400	ton	261.00	43,691,000
Naked				36,700	ton		
Wrapped				86,400	ton		
Bulk				54,100	ton		
Fall	1998	10,300	17.20	177,200	ton	220.00	38,984,000
Season Total	1997	10,400	17.95	186,700	ton	405.00	75,614,000
Head Lettuce	1998	19,940		376,500			112,924,000
Totals	1997	20,300		354,100			119,305,000
Leaf Lettuce ^c	1998	2,420	11.12	26,900	ton	662.00	17,808,000
	1997						

VEGETABLE CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Melons							
Cantaloupe ^a	1998	24,600	13.13	323,000	ton	\$ 195.00	\$ 62,985,000
	1997	27,400	11.86	325,000	ton	\$ 215.00	\$ 69,875,000
Honeydew	1998	3,980	11.51	45,800	ton	216.00	9,893,000
	1997	5,400	12.50	67,500	ton	226.00	15,255,000
Mixed Melons ^d	1998	1,220	9.59	11,700	ton	353.00	4,130,000
	1997	1,460	10.68	15,600	ton	302.00	4,711,000
Watermelon	1998	1,400	33.00	46,200	ton	158.00	7,300,000
	1997	1,300	35.38	46,000	ton	156.00	7,176,000
Onions							
Fresh	1998	4,020	14.88	59,800	ton	305.00	18,239,000
	1997	4,400	21.82	96,000	ton	227.00	21,792,000
Processed	1998	12,700	17.17	218,000	ton	95.00	20,710,000
	1997	10,800	17.22	186,000	ton	74.00	13,764,000
Oriental Vegetables ^e	1998	1,200	6.88	8,260	ton	581.00	4,799,000
	1997	1,290	6.90	8,900	ton	625.00	5,563,000
Squash ^f	1998	730	7.12	5,200	ton	366.00	1,903,000
	1997	820	7.07	5,800	ton	367.00	2,129,000
Sweet Corn	1998	11,100	11.89	132,000	ton	206.00	27,192,000
	1997	3,700	11.24	41,600	ton	268.00	11,149,000
Tomatoes							
Fresh							
Cherry	1998	210	17.14	3,600	ton	733.00	2,639,000
	1997	250	9.20	2,300	ton	1,137.00	2,615,000
Standard	1998	6,500	13.21	85,900	ton	601.00	51,626,000
	1997	4,650	16.77	78,000	ton	365.00	28,470,000

VEGETABLE CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Tomatoes	1998	100,000	35.77	3,577,000	ton	\$53.00	\$ 189,581,000
Processed	1997	95,000	39.15	3,719,000	ton	\$51.00	\$ 189,669,000
Other ^g	1998	6,000					23,199,000
	1997	<u>9,730</u>					<u>35,189,000</u>
Total	1998	240,370					\$ 691,940,000
	1997	223,530					\$ 681,390,000

a Includes fresh and processed

b Includes Chinese, Globe, Italian, and Japanese varieties

c Not previously reported separately, includes Red, Green, Butter, and Romaine varieties

d Includes Casaba, Crenshaw, Galia, Juan Canary, Orange Flesh, Persian, Santa Claus, Sharlyn, and Uzbek varieties

e Includes bittermelon, baby bok choy, Shanghai bok choy, bok choy, burdock, daikon, donqua, gai choy, gailon, lemon grass, lo bok, long beans, moqua, napa, opo, sinqua, sugar peas, sugar pea tips (shoots), taro, and yu choy

f Includes soft and hard types

g Includes artichoke, arugula, fava beans, green and snap beans, beets, cabbage, carrots, cauliflower, celery, Red and Swiss chard, chicory, collards, cornnuts, cucumber (fresh and processed), dandelion greens, endive, kale, kohlrabi, leeks, mushrooms, mustard greens, okra, green onions, parsley (fresh and dry), peas, chili peppers, pimientos, potatoes, pumpkins, peanuts, radishes, rutabagas, spinach, sunchokes, sweet potatoes/yams, tomatillos, turnips, and turnip greens; **herbs:** basil, cilantro, dill, mint, rosemary, sage, spice mix (marjoram, savory and thyme), and tarragon; **organic:** green beans, broccoli (processed), carrots, white corn, garlic (processed), onions (processed), winter and zucchini squash, and tomatoes (processed)

FRUIT AND NUT CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Almonds	1998	46,968	.76	35,700	ton	\$3,360.00	\$ 119,952,000
	1997	45,529	1.19	54,200	ton	\$3,400.00	\$ 184,280,000
Almond Hulls	1998			67,800	ton	77.00	5,221,000
	1997			103,000	ton	85.00	8,755,000
Apples	1998	4,211	11.81				
	1997	4,748	11.52				
Fresh	1998			43,900	ton	538.00	23,618,000
	1997			46,000	ton	614.00	28,244,000
Processed	1998			5,850	ton	82.00	480,000
	1997			8,700	ton	75.00	653,000
Apricots	1998	1,394	5.24	7,300	ton	940.00	6,862,000
	1997	1,396	7.74	10,800	ton	855.00	9,234,000
Citrus							
Lemons	1998	923	22.75				
	1997	934	17.84				
Fresh	1998			15,600	ton	401.00	6,256,000
	1997			12,400	ton	490.00	6,076,000
Processed	1998			5,400	ton	72.00	389,000
	1997			4,260	ton	123.00	524,000
Citrus, other ^a	1998	1,256	13.38				
	1997	924	11.00				
Fresh	1998			11,700	ton	657.00	7,687,000
	1997			7,900	ton	570.00	4,503,000
Processed	1998			5,100	ton	33.00	168,000
	1997			2,260	ton	30.00	67,800
Oranges							
Navel	1998	20,500	12.72				
	1997	20,571	11.15				
Fresh	1998			206,000	ton	438.00	90,228,000
	1997			190,000	ton	427.00	81,130,000
Processed	1998			54,700	ton	27.00	1,477,000
	1997			39,500	ton	31.00	1,225,000

FRUIT AND NUT CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Oranges (continued)							
Valencia	1998	5,551	15.67				
	1997	5,583	12.62				
Fresh	1998			70,500	ton	\$ 450.00	\$ 31,725,000
	1997			57,200	ton	\$ 446.00	\$ 25,511,000
Processed	1998			16,500	ton	89.00	1,469,000
	1997			13,300	ton	80.00	1,064,000
Oranges Total	1998	26,051					124,899,000
	1997	26,154					108,930,000
Figs, dried ^b	1998	2,463	.71	1,750	ton	810.00	1,418,000
	1997	2,623	.89	2,330	ton	1,064.00	2,479,000
Grapes							
Raisin Varieties	1998	170,864	8.36				
	1997	169,876	11.31				
Canned	1998			10,100	ton	250.00	2,525,000
	1997			20,300	ton	219.00	4,446,000
Crushed	1998			319,000	ton	165.00	52,635,000
	1997			494,000	ton	186.00	91,884,000
Dried	1998			206,000	ton	1,271.00	261,826,000
	1997			321,000	ton	951.00	305,271,000
Fresh	1998			67,200	ton	955.00	64,176,000
	1997			71,700	ton	880.00	63,096,000
Juice	1998			2,140	ton	383.00	820,000
	1997			3,130	ton	525.00	1,643,000
Table Varieties	1998	10,473	7.50				
	1997	10,099	9.65				
Crushed	1998			17,000	ton	150.00	2,550,000
	1997			25,800	ton	156.00	4,025,000
Fresh	1998			61,600	ton	1,099.00	67,698,000
	1997			71,700	ton	1,034.00	74,138,000

FRUIT AND NUT CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Grapes (continued)							
Wine Varieties	1998	39,860	10.33				
	1997	39,181	11.12				
Crushed	1998			408,000	ton	\$ 282.00	\$ 115,056,000
	1997			431,000	ton	\$ 268.00	\$ 115,508,000
Juice	1998			3,890	ton	494.00	1,922,000
	1997			4,700	ton	652.00	3,064,000
Grapes Total	1998	221,197					569,208,000
	1997	219,156					663,075,000
Kiwi Fruit	1998	415	8.58	3,560	ton	1,560.00	5,554,000
	1997	425	3.69	1,570	ton	840.00	1,319,000
Nectarines	1998	14,359	7.10	102,000	ton	814.00	83,028,000
	1997	15,710	9.48	149,000	ton	660.00	98,340,000
Olives, canned ^b	1998	1,456	3.16	4,600	ton	517.00	2,378,000
	1997	1,458	3.43	5,000	ton	661.00	3,305,000
Peaches							
Cling	1998	1,632	18.08	29,500	ton	224.00	6,608,000
	1997	1,716	13.99	24,000	ton	218.00	5,232,000
Freestone	1998	18,387	9.41	173,000	ton	759.00	131,307,000
	1997	14,441	9.63	139,000	ton	636.00	88,404,000
Peaches Total	1998	20,019					137,915,000
	1997	16,157					93,636,000
Pears, Asian and European	1998	711	8.80	6,260	ton	865.00	5,415,000
	1997	572	7.64	4,370	ton	1,172.00	5,122,000
Persimmons	1998	417	6.35	2,650	ton	1,187.00	3,146,000
	1997	442	10.18	4,500	ton	1,090.00	4,905,000
Pistachios	1998	3,989	1.43	5,700	ton	2,540.00	14,478,000
	1997	3,746	1.72	6,440	ton	2,471.00	15,913,000
Plums	1998	15,459	6.86	106,000	ton	917.00	97,202,000
	1997	16,614	7.82	130,000	ton	658.00	85,540,000

FRUIT AND NUT CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Pomegranates	1998	1,056	4.15	4,380	ton	\$1,287.00	\$ 5,637,000
	1997	1,096	6.75	7,400	ton	\$ 843.00	\$ 6,238,000
Prunes, dried ^b	1998	2,412	2.05	4,950	ton	720.00	3,564,000
	1997	2,489	4.06	10,100	ton	807.00	8,151,000
Strawberries ^c	1998	451	10.29	4,640	ton	749.00	3,475,000
	1997	441	17.46	7,700	ton	708.00	5,452,000
Walnuts	1998	3,239	1.73	5,600	ton	1,925.00	10,780,000
	1997	2,935	1.76	5,170	ton	1,685.00	8,712,000
Other ^d	1998	1,220					9,064,000
	1997	<u>1,238</u>					<u>9,106,000</u>
Total	1998	369,666					\$ 1,247,794,000
	1997	364,787					\$ 1,362,559,800

a Includes blood oranges, grapefruit, mandarins/tangerines, minneolas/tangelos, and pummelos

b Acres packed fresh or processed are included in other fruit and nut crops: 43 acres figs, 50 acres olives, and 80 acres prunes

c Includes fresh and processed

d Includes apricots (processed), avocados, boysenberries (fresh and processed), blackberries, blueberries, cherries, chestnuts, figs (fresh and substandard), grape leaves (processed), jujubes, kiwi fruit (processed), olive oil, nectarines (processed), olallieberries (processed), peaches (processed), pecans, plums (processed), plumcots, prunes (fresh and processed), and quince

NURSERY PRODUCTS

ITEM	YEAR	ACRES	QUANTITY	UNIT	VALUE
Christmas Trees	1998	14	900	trees	\$ 20,600
	1997	32	2,460	trees	\$ 49,200
Herbaceous Ornamentals ^a	1998	17	7,984,000	b	2,159,000
	1997	30	216,000	b	1,004,000
Ornamental Trees and Shrubs	1998	36	885,000	plants	7,019,000
	1997	55	1,572,000	plants	6,454,000
Other ^c	1998	832	277,347,000	plants	20,377,000
	1997	<u>780</u>	85,626,000	plants	<u>29,330,000</u>
Total	1998	899			\$29,575,600
	1997	897			\$36,837,200

a Includes cut flowers, cut greens, potted plants, bedding plants, and herbaceous perennials

b Includes flats, dozens, cans, and single plants

c Includes bareroot fruit trees, budwood, citrus trees, grape rootings and cuttings, and vegetable plants

LIVESTOCK AND POULTRY

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Cattle and Calves						
Beef						
Breeding Stock						
Common	1998	1,340		head	\$ 562.00	\$ 753,000
	1997	1,360		head	\$ 570.00	\$ 775,000
Registered	1998	340		head	1,174.00	399,000
	1997	340		head	1,191.00	405,000
Feeders	1998	171,000	342,000	cwt.	63.35	21,666,000
	1997	153,000	306,000	cwt.	78.40	23,990,000
Calves	1998	23,600	70,800	cwt.	76.50	5,416,000
	1997	23,800	71,400	cwt.	86.81	6,198,000
Slaughter Stock	1998	228,000	1,092,000 ^a	cwt.	60.90	66,503,000
	1997	228,000	1,094,000 ^a	cwt.	67.19	73,506,000
Dairy						
Breeding Stock	1998	10,900		head	1,400.00	15,260,000
	1997	9,970		head	1,250.00	12,463,000
Cull Stock	1998	23,100	301,000	cwt.	34.21	10,297,000
	1997	22,400	291,000	cwt.	35.10	10,214,000
Calves	1998	18,600	55,800	cwt.	82.60	4,609,000
	1997	17,900	53,800	cwt.	74.78*	4,023,000*
Cattle and Calves Total	1998					124,903,000
	1997					131,574,000*
Hogs and Pigs						
Feeder Pigs and Slaughter Stock	1998	24,900	50,500	cwt.	36.00	1,818,000
	1997	24,800	50,400	cwt.	57.92	2,919,000

LIVESTOCK AND POULTRY (continued)

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Sheep and Lambs						
Slaughter Stock						
Lambs	1998	50,900	57,300	cwt	\$ 75.50	\$ 4,326,000
	1997	50,900	57,300	cwt.	\$ 97.99	\$ 5,615,000
Sheep	1998	12,000	16,800	cwt.	30.77	517,000
	1997	12,000	16,800	cwt.	36.01	605,000
Turkeys	1998	4,334,000	102,196,000	lb.	.55	56,208,000
	1997	3,827,000	88,978,000	lb.	.58	51,607,000
Other ^b	1998					382,437,000
	1997					<u>290,135,000</u>
Total	1998					\$570,209,000
	1997					\$482,455,000*

a Net gain

b Includes chickens, chicks, fryers, old breeder birds, broilers, and roasters; fish; game birds; squab; turkey poults and old turkey breeder birds; cull milk goats, milk goats, and kid goats

* Revised

LIVESTOCK AND POULTRY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
Manure	1998	771,000	ton	\$ 6.79	\$ 5,235,000
	1997	585,000	ton	\$ 6.72	\$ 3,931,000
Milk					
Manufacturing	1998	52,400	cwt.	12.83	672,000
	1997	51,300	cwt.	11.07	568,000
Market ^a	1998	15,407,000	cwt.	14.83	228,486,000
	1997	15,448,000	cwt.	12.45	192,328,000
Wool	1998	600,000	lb.	.60	360,000
	1997	600,000	lb.	.97	582,000
Eggs					
Chicken & Turkey ^b	1998	783,000	dozen	5.80	4,541,000
	1997	978,000	dozen	5.93	<u>5,800,000</u>
Total	1998				\$239,294,000
	1997				\$203,209,000

a Includes cow and goat milk

b Includes market eggs and hatching eggs

APIARY PRODUCTS AND POLLINATION SERVICES

ITEM	YEAR	PRODUCTION TOTAL	UNIT	VALUE	
				PER UNIT	TOTAL
Apiary Products ^a					
Honey	1998	1,727,000	lb.	\$.59	\$ 1,019,000
	1997	2,612,000	lb.	\$.72	\$ 1,881,000
Beeswax	1998	49,500	lb.	1.60	79,000
	1997	88,000	lb.	1.72	151,000
Pollination ^b					
Alfalfa Seed	1998	85,700	colony	28.00	2,400,000
	1997	53,800	colony	23.70	1,275,000
Trees, Fruit and Nut ^c	1998	123,000	colony	39.30	4,834,000
	1997	120,000	colony	39.00	4,680,000
Cantaloupe	1998	38,600	colony	17.51	676,000
	1997	32,200	colony	15.50	<u>499,000</u>
Total	1998				\$ 9,008,000
	1997				\$ 8,486,000

a Reflects bee colonies registered in Fresno County by commercial and semi-commercial beekeepers:
1998 - 41,246 colonies; 1997 - 52,364 colonies

b Reflects value of pollination by all bee colonies located in Fresno County for pollination services
during 1998. Estimated total colonies: 122,464

c Almonds, cherries, and plums

INDUSTRIAL CROPS

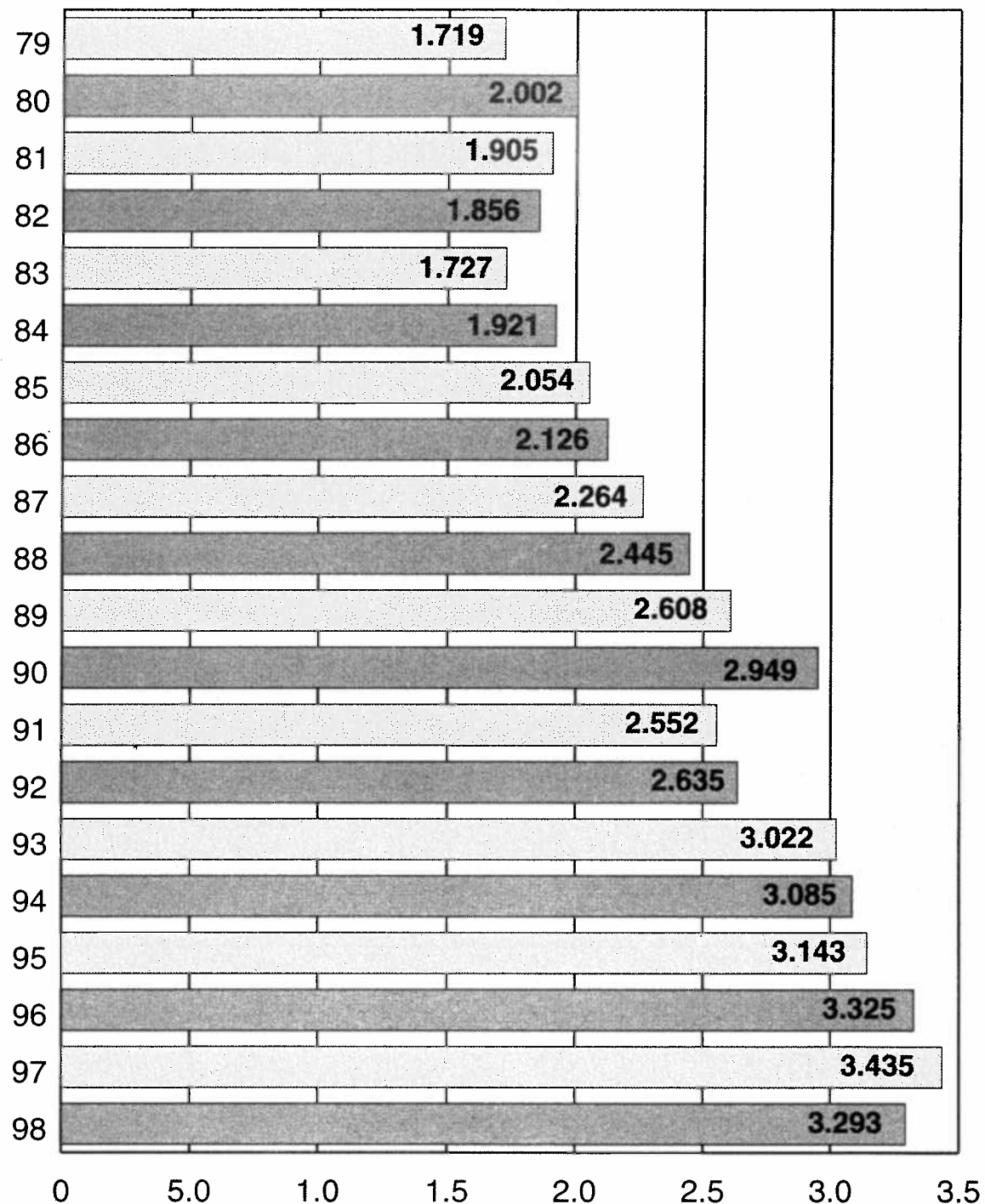
CROP	YEAR	PRODUCTION	UNIT	VALUE
Timber^a	1998	23,227,000	board feet	\$ 6,146,000
	1997	38,441,000	board feet	\$ 10,650,000
Firewood^b	1998	8,390	ords	45,300
	1997	8,570	ords	<u>44,500</u>
Total	1998			\$ 6,191,300
	1997			\$ 10,694,500

a Includes government and non-government properties

b Cord value is calculated prior to cutting

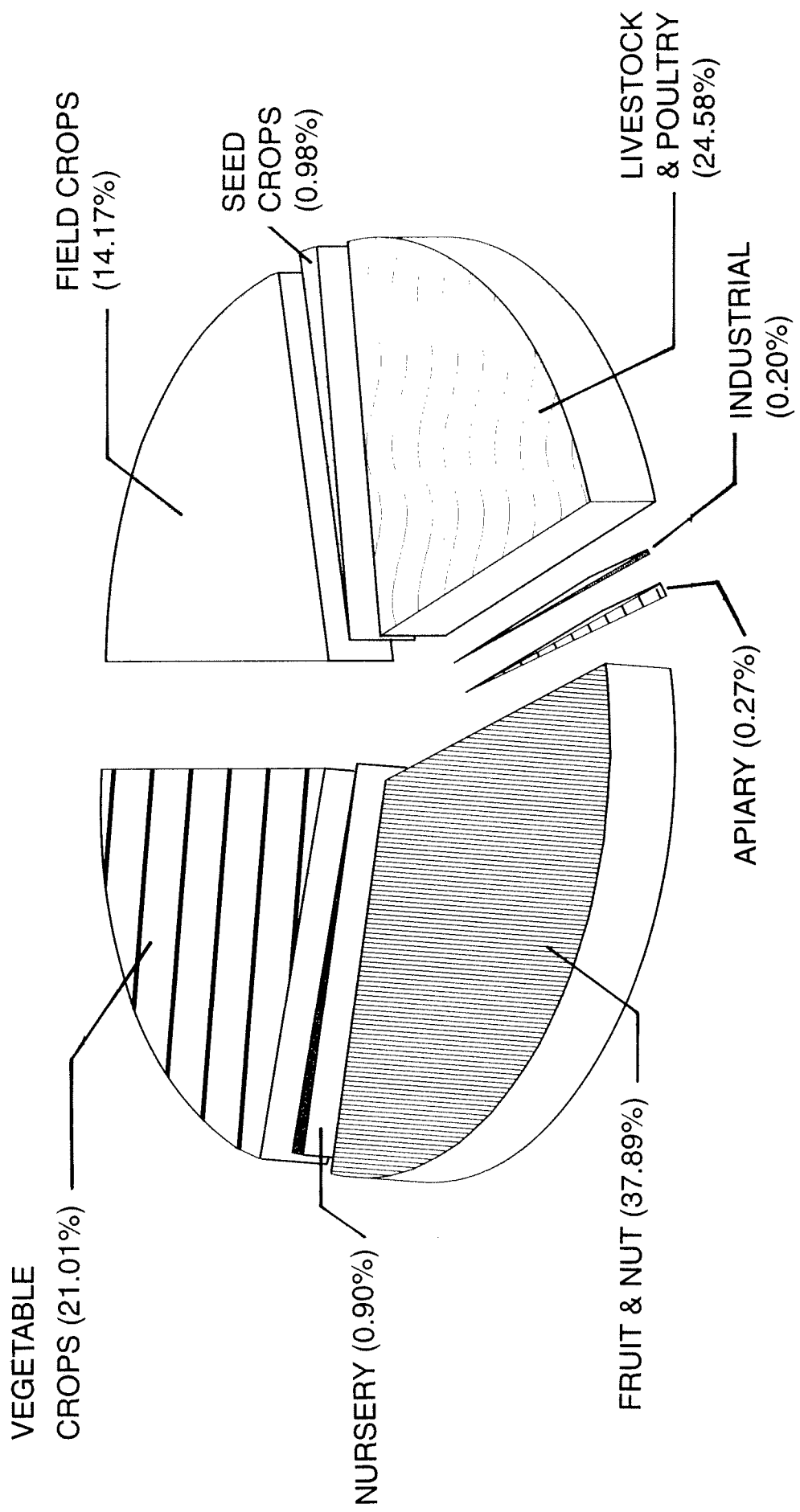
GROWTH OF FRESNO COUNTY AGRICULTURE OVER A TWENTY YEAR SPAN 1979 through 1998

Gross Production Value (in billions)

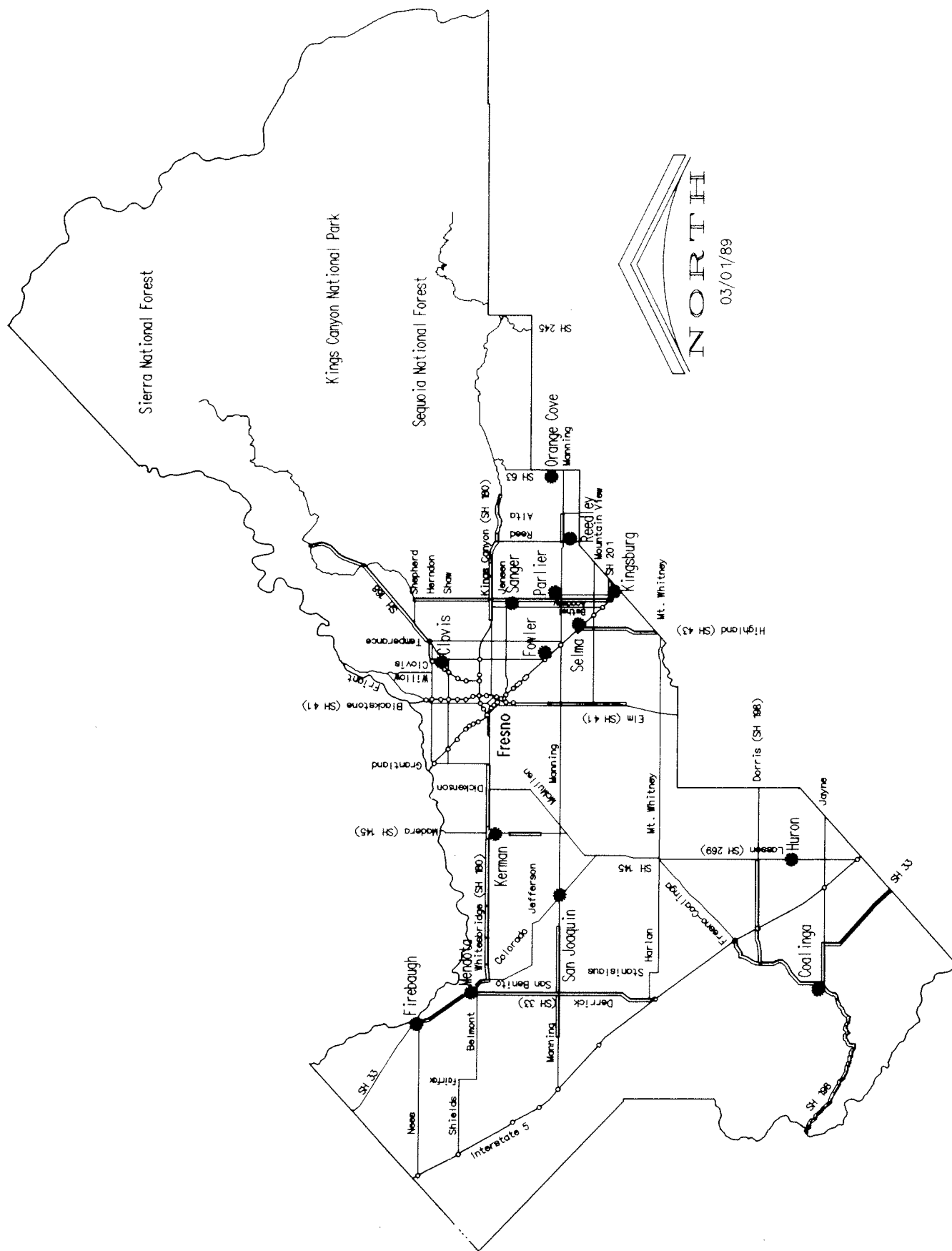


RELATIONSHIP IN TERMS OF TOTAL VALUE

CROP REPORT YEAR 1998



TOTAL VALUE \$3,292,951,900





Department of Agriculture

Jerry Prieto, Jr.

Agricultural Commissioner/
Sealer of Weights & Measures

Robert D. Vandergon

Assistant Agricultural Commissioner/
Sealer of Weights & Measures

William J. Lyons, Jr., Secretary
California Department of Food and Agriculture

The Honorable Board of Supervisors
County of Fresno

Judy Case, Chairman

Juan Arambula
Sharon Levy

Deran Koligian
Stan Oken

Linzie L. Daniel
Interim County Administrative Officer

I am pleased to submit the 1999 Fresno County Agricultural Crop and Livestock Report. This annual compilation presents statistical data pertaining to the acreage, yield, and gross value of Fresno County agricultural products.

The total gross production value of Fresno County agricultural commodities in 1999 was \$3,565,510,600. This represents a 9.45 percent increase from the 1998 gross production value. The December 1998 freeze resulted in a \$78.5 million loss to the citrus growers in 1999. During the month of April, fruit, nut, grape, and vegetable growers also suffered losses as a result of hail and freezing temperatures.

It must be emphasized that the values presented in this report reflect gross values only, and do not in any manner reflect net income or loss to producers.

Agriculture continues as the major industry in Fresno County and is a driving force in the county's economy. Every dollar received by Fresno County producers results in the economic extension benefit of three and one-half dollars to the total economy of the county.

I sincerely appreciate the professional and dedicated work performed by Deputy Agricultural Commissioner/Sealer Dennis C. Plann, Supervising Agricultural/Standards Specialist Bruce Clayton, Agricultural/Standards Specialists Scotti Walker and Katherine C. de Contreras, Seasonal Agricultural/Standards Specialist Cézanne Baker, as well as the rest of my staff at the Department of Agriculture for the preparation of this report.

My thanks to the many individuals, related agencies, and members of the agricultural industry for their contributions to the compilation of this report.

Sincerely,

Jerry Prieto, Jr.
Agricultural Commissioner/Sealer

*"A treasure lies hidden in that earth;
Where, I don't know, but in the end you'll
arrive at
The right place, given some guts and toil.
When you've finished harvesting turn over,
your land,
Break it up, dig it, plough it, don't allow
One inch of it to escape your hand."*

La Fontaine

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This report is also available at our internet site:
<http://www.fresno.ca.gov/4010/agwelcm.htm>

FRESNO COUNTY'S 10 LEADING CROPS

Crop	1999 Rank	1999 Dollar Value	1998 Rank	1989 Rank	1979 Rank
GRAPES	1	\$ 605,214,000	1	1	1
POULTRY	2	523,288,000	2	*	*
COTTON	3	332,472,000	3	2	2
TOMATOES	4	312,835,000	4	3	4
MILK	5	222,767,000	5	4	5
GARLIC	6	175,355,000	12	16	25
CATTLE AND CALVES	7	141,045,000	8	5	3
ALMONDS	8	112,294,000	7	14	9
PLUMS	9	101,346,000	11	9	10
HEAD LETTUCE	10	98,014,000	10	12	18
TOP TEN TOTAL		<u>\$2,624,630,000</u>			

* Not previously combined for ranking purposes

1999 Highlights in Retrospect

January:

Peach, plum, nectarine and almond trees were pruned. Grapevines were pruned and tied and stakes were replaced. Tree fruit and almond growers applied dormant sprays to control insects. The cotton plowdown was complete and growers started to form beds for spring planting. Sugar beet fields were treated to control aphids. Lettuce and broccoli fields were thinned and weeded. Strawberry growers laid down plastic under the plants and cut the tops to stimulate new growth. Napa cabbage, bok choy, green onions and turnips were harvested.

February:

Peach, plum, nectarine, apricot and almond orchards were in bloom. Bee hives were placed in almond and plum orchards to improve pollination. Granny Smith apples were packed out of cold storage. Fig trees were pruned. Lettuce fields were thinned, weeded, and sprayed to control aphid and mildew. Growers planted eggplant and market tomatoes under hot caps. Processing tomato plants had just started to emerge from their beds. Rains during the month improved the quality of rangeland grasses. Napa cabbage, bok choy, green onions, mustard greens, chard, carrots, and turnips were harvested.

March:

Pomegranates, kiwifruit, grapes, apples, and stone fruit were leafing out. Cherries were in bloom and buds on walnut trees had started to push. Seed alfalfa fields were mowed. Cotton growers were waiting for warmer weather before starting to plant. Growers had started to plant long beans and sweet corn. The navel orange harvest slowed as packers searched for packable fruit. Strawberry plants were in bloom. Asparagus, napa cabbage, bok choy, green onions, mustard greens, chard, carrots, and turnips were harvested.

April:

Peach, plum, apricot, and nectarine fruit was thinned. Growers sprayed nectarine trees to limit thrip damage and almonds to protect the blooms from fungal problems. Walnut and fig trees were leafing out. High winds early in the month blew over almond trees. Cold temperatures caused damage to stone fruit, almonds, grapes and vegetables. Rice growers were getting ready to plant. Cotton planting started near the middle of the month. The spring lettuce harvest began. Melons were planted. The orange bloom was declared. Asparagus, napa cabbage, bok choy, green onions, mustard greens, chard, carrots, sugar peas, snap peas, and turnips were harvested.

May:

Peach, plum, and nectarine orchards were thinned, irrigated, and treated to control weeds. Grape growers applied fungicides to control powdery mildew. The peach, nectarine, apricot and cherry harvests started. Cotton fields were cultivated; seedlings grew slowly as a result of cool weather. Oat hay was cut and baled. Growers started to flood rice fields. The spring lettuce harvest finished. Sweet potatoes, yams, corn, and melons were planted. Bee hives were moved out of almond and citrus orchards and into seed alfalfa fields. Asparagus, artichokes, green cabbage, beets, radishes, broccoli, cilantro, bok choy, green onions, gailon, mustard greens, chard, carrots, turnips, snap peas, sugar pea leaf tips, fava beans, and basil were harvested.

June:

Rain and hail storms on Wednesday, June 2, caused over 4.6 million dollars in damage to crops in the Sanger, Easton, and Clovis areas of Fresno County. Grape leaves were harvested. Pomegranates were blooming. Brown Turkey and Mission figs had started to develop color. Rice fields were flooded, planted, and treated for weeds. Alfalfa hay was cut, raked, windrowed, and baled. Valencia oranges were packed. Fresh and processing garlic fields were harvested and less mature fields were treated for rust. Artichokes, green beans, basil, dill, Thai broccoli, peaches, plums, nectarines, apricots, cherries, tomatoes, peppers, parsley, cucumbers, corn, cilantro, bok choy, onions, gailon, mustard greens, mushrooms, chard, carrots, radishes, turnip greens, snap peas, strawberries, blackber

July:

The grape harvest started and Ginger Gold apples were packed. Nectarines were treated to control thrip. Cotton fields were in bloom and earlier planted fields had started to set bolls. Black-eyed beans were drying for harvest. The safflower harvest started. Wheat and barley were harvested and in some fields the stubble was burned. The processing tomato harvest was in full swing. Strawberry fields were cultivated and prepared for new plantings. Cantaloupes, watermelons, green beans, basil, bittermelon, cilantro, cabbage, dill, eggplant, horseradish, peaches, plums, nectarines, tomatoes, peppers, parsley, cucumbers, corn, bok choy, onions, gailon, garlic, mustard greens, mushrooms, chard, carrots, radishes, turnip greens, snap peas, strawberries, blackberries, blueberries, squash, you choy, and yam leaves were harvested.

August:

Grape vineyard floors were prepared for the upcoming wine and raisin harvests. The almond harvest started. Asian pears were harvested. Cotton fields were weeded, irrigated, thinned, and sprayed to control aphids, leafhoppers, lygus, and army worms. Garbanzo beans, safflower, and sugar beets were harvested. Most rice fields had been drained. Planting started for the fall head lettuce crop. Citrus growers cultivated their groves and sprayed to control weeds and red scale. Cantaloupes, green beans, long beans, basil, bittermelon, cilantro, chayote, dill, eggplant, grapes, garlic, horseradish, okra, peaches, plums, nectarines, tomatoes, peppers, parsley, cucumbers, corn, bok choy, onions, gailon, mustard greens, mushrooms, chard, radishes, sinqua, turnip greens, snap peas, squash, you choy, and yam leaves were harvested.

September:

The raisin and grape harvests started. Pomegranates, walnuts, figs, and pistachios were harvested. Rice had started to form seed heads. Cotton defoliation began in the latter half of the month. The seed alfalfa harvest slowed. Small grain and winter forage was planted. Strawberry growers were weeding and irrigating their fields; plants were starting to bloom. Fall lettuce and broccoli were sprayed to control aphids and worms. Olive fruit had started to size. Growers fumigated ground for future orange plantings. Cantaloupes, green beans, long beans, basil, bittermelon, cilantro, chayote, chives, dill, eggplant, grapes, garlic, horseradish, lemon grass, okra, opo, peaches, plums, nectarines, strawberries, tomatoes, peppers, parsley, cucumbers, corn, bok choy, onions, gailon, mustard greens, mushrooms, chard, radishes, sinqua, turnip greens, snap peas, squash, you choy and yam leaves were harvested.

October:

The cotton harvest was in full swing with only a few fields were still being defoliated. Corn stubble was disced and leveled. The rice harvest finished. Quince were harvested. Field corn, silage corn, sugar beets, dry beans and black-eyed beans were also harvested. Stone fruit growers fumigated open ground in preparation for planting new orchards. Olives were harvested. The garlic harvest was nearly finished. Lettuce fields were irrigated and fertilized. The fall lettuce and broccoli harvests started. Cantaloupes, green beans, long beans, basil, bittermelon, chayote, eggplant, grapes, horseradish, lemon grass, mint, okra, opo, pumpkins, strawberries, sugar peas, snap peas, sugar cane, sweet potatoes, tomatoes, peppers, parsley, cucumbers, corn, cilantro, bok choy, onions, gailon, mustard greens, mushrooms, sinqua, squash, you choy, yams, and yam leaves were also harvested.

November:

Grape growers pruned vines, cultivated to control weeds, applied soil amendments and planted cover crops. A few table grapes were still being harvested. Almond and stone fruit trees were being pruned. The cotton harvest continued; growers worked to meet plowdown requirements. Spring lettuce, onions, and garlic were planted. The navel orange harvest started. Broccoli, green beans, bok choy, bittermelon, cabbage, cilantro, chayote, cucumbers, corn, dill, eggplant, garlic, lemon grass, mint, moqua, mushrooms, parsley, sugar peas, snap peas, sugar cane, pumpkins, onions, opo, peppers, radishes, squash, sweet potatoes, tomatoes, yam leaves, and yams were harvested.

December:

Stone fruit and nut growers pruned and topped and then shredded the brush. The cotton harvest finished. Growers were shredding and plowing under cotton stalks. Small grain and winter forage fields were irrigated. Alfalfa hay was cut, raked, windrowed, and baled; some fields had started to enter dormancy. Processing tomato fields were being bedded up. Broccoli, basil, bok choy, beets, cabbage, cauliflower, cilantro, chickory, daikon, dill, gailon, turnip greens, kohlrabi, kale, lemon grass, mint, mushrooms, onions, radishes, squash, sugar cane, tomatoes, and you choy were harvested.

FIELD CROPS: Total gross returns for all field crops increased by \$19,084,000, from \$466,556,000 to \$485,640,000, and plantings were down 61,860 acres to 1,408,940 acres. Cotton, the county's third most valuable crop, increased in value by 7.86 percent, from \$308,231,000 to \$332,472,000. Acreage for acala varieties of upland cotton was down 55,000 acres while pima plantings increased 6,900 acres and non-acala upland cotton acreage increased 162 percent. The barley crop was down 3,270 acres and the gross returns decreased 44 percent or \$697,000. The size of the corn grain crop decreased 1,800 acres while the silage corn production was up 2,200 acres. The value of the rice crop nearly doubled as a result of increases in price, from \$172 to \$245 per ton, and also in yield, from 2.62 to 3.53 tons per acre. Gross returns for safflower were up 98 percent in spite of a \$102 per ton decrease in the amount paid to growers.

SEED CROPS: Total gross returns for seed crops increased by 30.5 percent, from \$33,202,000 to \$43,332,000. Certified alfalfa seed yields were up 130 pounds per acre and the crop value increased 38.8 percent or \$8,984,000. Certified cotton seed plantings increased 2,040 acres and the crop value was up \$312,000. Certified wheat seed plantings were down 1,070 acres and decreased in value by \$284,000.

VEGETABLE CROPS: The total gross returns for all vegetable crops increased \$190,708,000, from \$691,940,000 to \$882,648,000. Production per acre was down for most crops. Asparagus, bell peppers, broccoli and eggplant were all up in value. The value of the head lettuce crop decreased \$14,910,000, while leaf lettuce was up \$6,884,000. Returns to cantaloupe growers increased 18.02 percent, while the value of mixed melons was up \$1,983,000 and watermelons increased in value \$3,905,000. Sweet corn plantings decreased 4,300 acres and the crop value was down \$10,056,000. Increases in acreage, yield and price per ton all contributed to a \$6,034,000 increase in the value of oriental vegetables. Tomatoes, fourth on the county's top ten list of commodities, were up 28.29 percent, from \$243,846,000 to \$312,835,000.

FRUIT AND NUT CROPS: Total gross returns for all fruit and nut crops decreased \$20,268,000, from \$1,211,362,000 to \$1,191,094,000, in large a result of damage to citrus from freezing temperatures in December of 1998. The value of the orange crop fell 55.7 percent; down by \$69,563,000, from \$124,899,000 to \$55,336,000. Lemon production dropped 8.92 tons per acre decreasing the value of the crop by 79.85 percent. The price per ton of almonds decreased 45.83 percent, resulting in a crop value of \$7,658,000 less than in 1998, despite an increase of 10,157 acres. Apricot growers received \$29 per ton less than in 1998, however increases in acreage and yield resulted in an increased total crop value of \$9,110,000. Grapes, again the number one crop on the county's top ten list, were up 6.33 percent, from \$569,208,000 to \$605,214,000. The value of the peach crop increased by \$3,373,000; nectarines were up \$3,604,000 and plums increased in value \$4,144,000. The price paid to the grower for pears was up \$199 per ton.

NURSERY: All areas showed increases in value resulting in total gross returns that were up 10 percent, from \$32,530,600 to \$29,575,600. Christmas tree acreage nearly doubled and tree production increased 134.4 percent. The value of herbaceous ornamentals (potted plants, bedding plants and herbaceous perennials) increased \$711,000, while ornamental trees and shrubs were up \$351,000. The other category, which includes bareroot fruit trees, budwood, citrus trees, grape rootings and cuttings and vegetable plants, was up 9.12 percent, from \$20,377,000 to \$22,236,000.

LIVESTOCK AND POULTRY: The total gross returns for livestock and poultry increased by \$109,800,000, from \$570,209,000 to \$680,009,000. Poultry was second on the county's top ten crops list, with an increased value of 19.32 percent or \$84,719,000. Cattle and calves moved up from eighth to seventh place on the top ten list, increasing in total value by \$16,142,000 due to increased prices. The total value of hogs and pigs increased by 3.46 percent, from \$1,818,000 to \$1,881,000. Sheep and lambs decreased in total value by 10.08 percent or \$488,000, as a result of both lower number of head sold and a drop in the per unit price.

LIVESTOCK AND POULTRY PRODUCTS: The total gross returns for livestock and poultry products decreased by 2.55 percent or \$6,098,000. Manure production was up by 60,000 tons. Milk remained fifth on the county's top ten list despite a total value decrease of \$6,391,000. Eggs for commercial and hatching purposes increased 9.73 percent for a total value of \$4,983,000.

APIARY PRODUCTS AND POLLINATION SERVICES: Gross returns for apiary products and pollination services increased \$1,866,000, from \$9,008,000 to \$10,874,000. Honey increased in value \$122,000 and beeswax production was down 10,900 pounds. The total value of pollination services including alfalfa seed, cantaloupe, and fruit and nut acreage, increased by \$1,772,000, from \$7,910,000 to \$9,682,000.

INDUSTRIAL CROPS: Gross returns for industrial crops decreased by 5.77 percent to \$6,187,000. Timber production was down 2,217,000 board feet and the returns decreased \$239,000. This year's increase in firewood value resulted from a change in the method used to value the crop.

SUSTAINABLE AGRICULTURE

1999 BIOLOGICAL CONTROL ACTIVITIES

PEST	B.C. AGENT/MECHANISM	ACTIVITY
Yellow Starthistle (YST)	Hairy weevil (Eustenopus villosus sp.)	Released 2,600 specimens at various new sites. Most old sites showed good established populations that were spreading.
	Peacock fly (Chaetorellia sp.)	Specimens were not moved anywhere as the flies are spreading rapidly on their own.
	Seedhead fly (Urophora sirunaseva sp.)	Surveys showed that it is present in most of the YST areas and is expanding its range.
	Bud weevil (Bangasternus orientalis sp.)	Surveys showed that it is still present and expanding its range.

1999 DETECTION ACTIVITIES

INSECT	TRAPS DEPLOYED	RESULTS
Medfly	947	Seven sterile flies trapped
Mexican fruit fly	190	None captured
Oriental fruit fly	152	None captured
Melon fly	152	None captured
Gypsy moth	403	None captured
Japanese beetle	276	None captured
Olive fruit fly	649	None captured
Guava fruit fly	450	On June 22, 1999, a male was detected in Fresno. No more flies were found.

SUSTAINABLE AGRICULTURE

PEST ERADICATION

RED IMPORTED FIRE ANT: Two more positive finds were made in areas different from previous finds in Fresno County. One was in another almond orchard, but this time near San Joaquin. Two rows were infested on the east end of the orchard, which were treated but not totally eradicated in 1999. The second find was much more disturbing. A nursery in Fresno was found to have two mounds. They were eradicated and a subsequent survey around the site did not find any more.

SKELETONWEED: A total of 592 sites were surveyed four times from June through October. The sites total approximately 900 acres of which 8.5 acres were treated. Approximately five acres of 800 acres surveyed were treated with 61 ounces of the herbicide Transline. Another 3.5 acres of approximately 100 acres surveyed were treated with three gallons of the herbicide Roundup Pro. More skeletonweed was detected further to the east and south of the previously known sites. The new finds occurred too late in the season for an herbicide application. New locations will be surveyed and treated in the spring of 2000.

NEW AND UNUSUAL PEST OUTBREAKS IN 1999

RED GUM LERPPSYLLID (*Glycaspis brimblecombei*) was found here for the first time in June. By the time it was discovered, it was throughout the entire county. University of California will be releasing parasitoids in 2000.

VINE MEALY BUG (*Planococcus ficus*) was discovered in a few vineyards in the Fowler/Sanger area. It was a light infestation that was likely brought up from Imperial County on harvesting equipment. Despite treatment, by the end of the year it had spread to some neighboring vineyards.

GRASSHOPPERS were extremely bad in Fresno County this year. Both east and west foothill areas experienced major outbreaks and in some areas where agriculture was in close proximity to the hills, crops were damaged. Most complaints were from homeowners in the foothills.

1999 ORGANIC FARMING

Gross returns for organic farming in 1999 total \$17,349,000. A large variety of crops were produced in compliance with the California Organic Food Act of 1990. Sixty two farms totaling 6,804 acres and seventeen handlers (shippers/packers) were registered organic in Fresno county in 1999. Crops grown, packed, and shipped include almonds, apples, apricots, artichokes, asian pears, barley, beans, boysenberries, cauliflower, cherries, cotton, cucumbers, cut flowers, eggplant, figs, garlic, grapes, green beans, herbs, kiwifruit, lemons, lettuce, mandarins, melons, nectarines, nursery plants, okra, onions, oranges, potatoes, peaches, peppers, persimmons, pistachios, plums, pluots, pomegranates, radishes, raisins, safflower, salad mix, sheep, squash, tomatillos, tomatoes, turkeys, walnuts, and wheat.

FRESNO COUNTY

FIELD CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Barley	1999	3,310	2.68	8,870	ton	\$ 100.00	\$ 887,000
	1998	6,580	2.19	14,400	ton	\$ 110.00	\$ 1,584,000
Beans, dry ^a	1999	17,700	1.38	24,400	ton	513.00	12,517,000
	1998	15,300	1.14	17,400	ton	704.00	12,250,000
Corn							
Grain	1999	5,600	5.14	28,800	ton	120.00	3,456,000
	1998	7,400	5.30	39,200	ton	124.00	4,861,000
Silage	1999	19,900	24.62	490,000	ton	20.00 ^b	9,800,000
	1998	17,700	24.92	441,000	ton	22.00 ^b	9,702,000
Cotton, Upland (Acala)							
Lint	1999	145,000	1,421 ^c	412,000 ^d	bale	.74 ^e	153,660,000
	1998	200,000	1,038 ^c	415,000 ^d	bale	.77 ^e	161,053,000
Seed	1999			141,000	ton	158.00	22,278,000
	1998			166,000	ton	195.00	32,370,000
Cotton, Upland (Non-Acala)							
Lint	1999	41,200	1,226 ^c	101,000 ^d	bale	.71 ^e	36,142,000
	1998	15,700	959 ^c	30,100 ^d	bale	.71 ^e	10,771,000
Seed	1999			34,600	ton	158.00	5,467,000
	1998			12,000	ton	195.00	2,340,000
Cotton, Pima							
Lint	1999	93,600	1,277 ^c	239,000 ^d	bale	.84 ^e	101,183,000
	1998	86,700	1,021 ^c	177,000 ^d	bale	.98 ^e	87,424,000
Seed	1999			96,400	ton	133.00	12,821,000
	1998			75,700	ton	186.00	14,080,000
Hay							
Alfalfa	1999	81,500	7.60	619,000	ton	90.00	55,710,000
	1998	76,300	7.04	537,000	ton	109.00	58,533,000
Other ^f	1999	14,000	3.11	43,500	ton	79.00	3,437,000
	1998	46,800	1.31	61,300	ton	94.00	5,762,000

FRESNOCOUNTY

FIELD CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Pasture and Range							
Field	1999	29,700			acre	\$ 25.96	\$ 771,000
Stubble ^g	1998	14,700			acre	\$ 32.58	\$ 479,000
Irrigated	1999	40,000			acre	110.00	4,400,000
Pasture	1998	40,000			acre	110.00	4,400,000
Grazing	1999	850,000			acre	7.00	5,950,000
Range	1998	850,000			acre	7.00	5,950,000
Rice	1999	5,800	3.53	20,500	ton	245.00	5,023,000
	1998	5,800	2.62	15,200	ton	172.00	2,614,000
Safflower	1999	6,070	2.04	12,400	ton	178.00	2,207,000
	1998	2,840	1.40	3,980	ton	280.00	1,114,000
Sugar Beets	1999	20,400	33.19	677,000	ton	34.00	23,018,000
	1998	27,800	29.06	808,000	ton	37.00	29,896,000
Wheat	1999	55,300	2.69	149,000	ton	127.00	18,923,000
	1998	64,300	2.29	147,000	ton	127.00	18,669,000
Other ^h	1999	9,560					7,990,000
	1998	<u>7,580</u>					<u>2,704,000</u>
Total	1999	1,408,940					\$485,640,000
	1998	1,470,800					\$466,556,000

a Includes black, black-eyed, garbanzo, Jackson Wonderful, baby and large lima, pinto, and red kidney beans

b Field price

c Pounds of lint per acre

d 500 pounds lint per bale

e Price per pound, 504 pounds gross weight per bale

f Includes hay from alfalfa/oat mixture, barley, oats, sudan, winter forage and wheat

g Not included in total field crop acreage; includes acreage from alfalfa hay and seed alfalfa, barley, beans, broccoli, melons, oats, and wheat

h Includes barley silage, oats (grain and silage), sorghum, straw, sugar beet pulp, wheat silage, and winter forage; **organic:** cotton and wheat

FRESNO COUNTY

SEED CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Alfalfa	1999	32,400	620	20,088,000	lb.	\$1.60	\$32,141,000
Certified	1998	27,800	490	13,622,000	lb.	\$1.70	\$23,157,000
Cotton ^a	1999	9,900		7,673,000	lb.	.12	921,000
Certified	1998	7,860*		6,092,000	lb.	.10*	609,000*
Vegetable ^b	1999	1,540					4,230,000
	1998	1,950					3,100,000
Wheat	1999	1,490	5,000	7,450,000	lb.	.07	522,000
Certified	1998	2,560	4,500	11,520,000	lb.	.07	806,000
Other ^c	1999	5,540					5,518,000
	1998	<u>6,680*</u>					<u>5,530,000*</u>
Total	1999	40,970					\$43,332,000
	1998	38,990*					\$33,202,000*

a Included in field crop acreage

b Arugula, broccoli, cabbage, carrot, endive, kohlrabi, lettuce, onion, radish, and tomato

c Alfalfa non-certified, black-eyed beans, clover, corn, dry beans, garbanzo beans, oats, rice, safflower, sudangrass, sunflower, and triticale

* Revised

FRESNO COUNTY

VEGETABLE CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Asparagus	1999	2,750	2.31	6,350	ton	\$1,958.00	\$ 12,433,000
	1998	2,680	2.09	5,600	ton	\$1,800.00	\$ 10,080,000
Bell Peppers ^a	1999	2,490	21.24	52,900	ton	354.00	18,727,000
	1998	1,480	14.59	21,600	ton	350.00	7,560,000
Broccoli ^a	1999	13,500	4.90	66,200	ton	478.00	31,644,000
	1998	9,000	4.82	43,400	ton	400.00	17,360,000
Eggplant ^b	1999	850	14.00	11,900	ton	521.00	6,200,000
	1998	990	8.02	7,940	ton	607.00	4,820,000
Garlic							
Fresh	1999	7,800	8.94	69,700	ton	1,435.00	100,020,000
	1998	7,500	4.59	34,400	ton	1,870.00	64,328,000
Processed	1999	23,500	10.51	247,000	ton	305.00	75,335,000
	1998	22,700	4.58	104,000	ton	316.00	32,864,000
Head Lettuce							
Naked Wrapped Bulk				44,500	ton		
				78,500	ton		
				57,100	ton		
Spring Season Total	1999	11,000	16.37	180,100	ton	336.00	60,514,000
	1998	9,640	20.67	199,300	ton	371.00	73,940,000
Naked Wrapped Bulk				34,000	ton		
				81,400	ton		
				43,500	ton		
Fall Season Total	1999	9,980	15.92	158,900	ton	236.00	37,500,000
	1998	10,300	17.20	177,200	ton	220.00	38,984,000
Head Lettuce	1999	20,980		339,000			98,014,000
Totals	1998	19,940		376,500			112,924,000

FRESNO COUNTY

VEGETABLE CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Leaf Lettuce ^c	1999	4,300	10.81	46,500	ton	\$ 531.00	\$ 24,692,000
	1998	2,420	11.12	26,900	ton	\$ 662.00	\$ 17,808,000
Melons							
Cantaloupe ^a	1999	27,700	12.60	349,000	ton	213.00	74,337,000
	1998	24,600	13.13	323,000	ton	195.00	62,985,000
Honeydew	1999	3,150	12.79	40,300	ton	239.00	9,632,000
	1998	3,980	11.51	45,800	ton	216.00	9,893,000
Mixed Melons ^d	1999	2,030	10.64	21,600	ton	283.00	6,113,000
	1998	1,220	9.59	11,700	ton	353.00	4,130,000
Watermelon	1999	1,940	34.18	66,300	ton	169.00	11,205,000
	1998	1,400	33.00	46,200	ton	158.00	7,300,000
Onions							
Fresh	1999	4,290	21.86	93,800	ton	235.00	22,043,000
	1998	4,020	14.88	59,800	ton	305.00	18,239,000
Processed	1999	12,300	19.84	244,000	ton	82.00	20,008,000
	1998	12,700	17.17	218,000	ton	95.00	20,710,000
Oriental Vegetables ^e	1999	1,620	10.80	17,500	ton	619.00	10,833,000
	1998	1,200	6.88	8,260	ton	581.00	4,799,000
Squash ^f	1999	650	6.37	4,140	ton	378.00	1,565,000
	1998	730	7.12	5,200	ton	366.00	1,903,000
Sweet Corn	1999	6,800	12.00	81,600	ton	210.00	17,136,000
	1998	11,100	11.89	132,000	ton	206.00	27,192,000
Tomatoes							
Fresh							
Cherry	1999	180	26.50	4,770	ton	733.00	3,496,000
	1998	210	17.14	3,600	ton	733.00	2,639,000

FRESNO COUNTY

VEGETABLE CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Tomatoes							
Fresh							
Standard	1999	6,500	17.54	114,000	ton	\$327.00	\$ 37,278,000
	1998	6,500	13.21	85,900	ton	\$601.00	\$ 51,626,000
Tomatoes Processed	1999	115,000	41.50	4,773,000	ton	57.00	272,061,000
	1998	100,000	35.77	3,577,000	ton	53.00	189,581,000
Other ^g	1999	12,100					29,876,000
	1998	<u>6,000</u>					<u>23,199,000</u>
Total	1999	270,430					\$ 882,648,000
	1998	240,370					\$ 691,940,000

a Includes fresh and processed

b Includes Chinese, Globe, Italian, and Japanese varieties

c Includes Red, Green, Butter, and Romaine varieties

d Includes Casaba, Crenshaw, Galia, Juan Canary, Orange Flesh, Persian, Santa Claus, and Sharlyn varieties

e Includes bittermelon, baby bok choy, Shanghai bok choy, bok choy, daikon, donqua, gai choy, gailon, gourds, lemon grass, lo bok, long beans, moqua, napa, opo, sinqua, sugar peas, soo qua, taro, and you choy

f Includes soft and hard types

g Includes artichoke, arugula, fava beans, green and snap beans, beets, cabbage, carrots, cauliflower (fresh and processed), Red and Swiss chard, chicory, collards, cucumber (fresh and processed), dandelion greens, kale, kohlrabi, leeks, lima beans, mushrooms, mustard greens, okra, green onions, parsley (fresh and dry), parsnips, peas, chili peppers, pimientos, potatoes, pumpkins, peanuts, radishes, rutabagas, spinach, sprouts, sunchoke, sweet potatoes/yams, tomatillos, turnips, and turnip greens; **herbs:** basil, cilantro, dill, mint, rosemary, sage, spice mix (marjoram, savory and thyme), tarragon and thyme; **organic:** green beans, broccoli (fresh and processed), carrots (fresh and processed), cauliflower, endive, garlic (fresh), onions (processed), spinach (fresh and processed) and tomatoes (fresh and processed)

FRESNO COUNTY

FRUIT AND NUT CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Almonds	1999	57,125	1.08	61,700	ton	\$1,820.00	\$ 112,294,000
	1998	46,968	.76	35,700	ton	\$3,360.00	\$ 119,952,000
Almond Hulls	1999			117,000	ton	57.00	6,669,000
	1998			67,800	ton	77.00	5,221,000
Apples	1999	3,959	10.19				
	1998	4,211	11.81				
Fresh	1999			36,700	ton	591.00	21,690,000
	1998			43,900	ton	538.00	23,618,000
Processed	1999			3,660	ton	74.00	271,000
	1998			5,850	ton	82.00	480,000
Apricots	1999	1,502	6.66	10,000	ton	911.00	9,110,000
	1998	1,394	5.24	7,300	ton	940.00	6,862,000
Citrus							
Lemons	1999	933	13.83				
	1998	923	22.75				
Fresh	1999			1,600	ton	604.00	966,000
	1998			15,600	ton	401.00	6,256,000
Processed	1999			11,300	ton	33.00	373,000
	1998			5,400	ton	72.00	389,000
Citrus, other^a	1999	1,255	6.93				
	1998	1,256	13.38				
Fresh	1999			6,970	ton	588.00	4,098,000
	1998			11,700	ton	657.00	7,687,000
Processed	1999			1,730	ton	25.00	43,000
	1998			5,100	ton	33.00	168,000
Oranges							
Navel	1999	20,971	8.72				
	1998	20,500	12.72				
Fresh	1999			97,100	ton	457.00	44,375,000
	1998			206,000	ton	438.00	90,228,000
Processed	1999			85,800	ton	34.00	2,917,000
	1998			54,700	ton	27.00	1,477,000

FRESNO COUNTY

FRUIT AND NUT CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Oranges (continued)							
Valencia	1999	5,578	4.20				
	1998	5,551	15.67				
Fresh	1999			16,300	ton	\$ 472.00	\$ 7,694,000
	1998			70,500	ton	\$ 450.00	\$ 31,725,000
Processed	1999			7,150	ton	49.00	350,000
	1998			16,500	ton	89.00	1,469,000
Oranges Total	1999	26,549					55,336,000
	1998	26,051					124,899,000
Figs, dried ^b	1999	2,345	.88	2,060	ton	725.00	1,494,000
	1998	2,463	.71	1,750	ton	810.00	1,418,000
Grapes							
Raisin Varieties	1999	172,226	8.18				
	1998	170,864	8.36				
Canned	1999			8,480	ton	221.00	1,874,000
	1998			10,100	ton	250.00	2,525,000
Crushed	1999			264,000	ton	201.00	53,064,000
	1998			319,000	ton	165.00	52,635,000
Dried	1999			258,000	ton	1,214.00	313,212,000
	1998			206,000	ton	1,271.00	261,826,000
Fresh	1999			53,700	ton	975.00	52,358,000
	1998			67,200	ton	955.00	64,176,000
Juice	1999			7,120	ton	259.00	1,844,000
	1998			2,140	ton	383.00	820,000
Table Varieties	1999	11,158	8.42				
	1998	10,473	7.50				
Crushed	1999			18,000	ton	174.00	3,132,000
	1998			17,000	ton	150.00	2,550,000
Fresh	1999			76,000	ton	985.00	74,860,000
	1998			61,600	ton	1,099.00	67,698,000

FRESNO COUNTY

FRUIT AND NUT CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Grapes (continued)							
Wine Varieties	1999	45,046	8.80				
	1998	39,860	10.33				
Crushed	1999			393,000	ton	\$ 261.00	\$ 102,573,000
	1998			408,000	ton	\$ 282.00	\$ 115,056,000
Juice	1999			3,310	ton	694.00	2,297,000
	1998			3,890	ton	494.00	1,922,000
Grapes Total	1999	228,430					605,214,000
	1998	221,197					569,208,000
Kiwifruit ^b	1999	416	3.35	1,400	ton	876.00	1,226,000
	1998	415	8.58	3,560	ton	1,560.00	5,554,000
Nectarines	1999	14,985	7.94	119,000	ton	728.00	86,632,000
	1998	14,359	7.10	102,000	ton	814.00	83,028,000
Olives, canned ^b	1999	1,395	4.55	6,350	ton	477.00	3,029,000
	1998	1,456	3.16	4,600	ton	517.00	2,378,000
Peaches							
Cling	1999	1,693	22.80	38,600	ton	214.00	8,260,000
	1998	1,632	18.08	29,500	ton	224.00	6,608,000
Freestone	1999	13,474	9.20	124,000	ton	779.00	96,596,000
	1998	13,325*	9.38*	125,000*	ton	759.00	94,875,000*
Peaches Total	1999	15,167					104,856,000
	1998	14,957*					101,483,000*
Pears, Asian and European	1999	726	6.85	4,970	ton	1,064.00	5,288,000
	1998	711	8.80	6,260	ton	865.00	5,415,000
Persimmons	1999	420	8.36	3,510	ton	982.00	3,447,000
	1998	417	6.35	2,650	ton	1,187.00	3,146,000
Pistachios	1999	4,576	.78	3,570	ton	3,260.00	11,638,000
	1998	3,989	1.43	5,700	ton	2,540.00	14,478,000
Plums	1999	15,434	7.39	114,000	ton	889.00	101,346,000
	1998	15,459	6.86	106,000	ton	917.00	97,202,000

FRESNO COUNTY

FRUIT AND NUT CROPS (continued)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Pomegranates	1999	1,092	6.03	6,580	ton	\$1,815.00	\$ 11,943,000
	1998	1,056	4.15	4,380	ton	\$1,287.00	\$ 5,637,000
Prunes, dried ^b	1999	3,619	2.87	10,400	ton	855.00	8,892,000
	1998	2,412	2.05	4,950	ton	720.00	3,564,000
Strawberries ^c	1999	455	12.31	5,600	ton	874.00	4,894,000
	1998	451	10.29	4,640	ton	749.00	3,475,000
Walnuts	1999	3,321	1.96	6,510	ton	871.00	5,670,000
	1998	3,239	1.73	5,600	ton	1,925.00	10,780,000
Other ^d	1999	1,500					24,675,000
	1998	<u>1,220</u>					<u>9,064,000</u>
Total	1999	385,204					\$ 1,191,094,000
	1998	364,604*					\$ 1,211,362,000*

a Includes blood oranges, grapefruit, mandarins/tangerines, minneolas/tangelos, and pummelos

b Acres packed fresh or processed are included in other fruit and nut crops: 46 acres figs (fresh), 4 acres olives (fresh), 50 acres olive oil, and 105 acres prunes; **organic**: 120 acres figs and 11 acres kiwifruit

c Includes fresh and processed

d Includes apricots (processed), blackberries, blueberries, boysenberries (fresh and processed), cherries, chestnuts, dried fruit, figs (fresh), grape leaves (processed), jujubes, kiwifruit (processed), olive (fresh and oil), nectarines (processed), peaches (processed), pecans, plums (processed), plumcots, prunes (processed), and quince; **organic**: figs and kiwifruit

* Revised

NURSERY PRODUCTS

ITEM	YEAR	ACRES	QUANTITY	UNIT	VALUE
Christmas Trees	1999	26	2,110	trees	\$ 54,600
	1998	14	900	trees	\$ 20,600
Herbaceous Ornamentals ^a	1999	14	1,245,000	b	2,870,000
	1998	17	7,984,000	b	2,159,000
Ornamental Trees and Shrubs	1999	84	1,071,000	plants	7,370,000
	1998	36	885,000	plants	7,019,000
Other ^c	1999	887	246,368,000	plants	22,236,000
	1998	<u>832</u>	277,347,000	plants	<u>20,377,000</u>
Total	1999	1,011			\$32,530,600
	1998	899			\$29,575,600

a Includes potted plants, bedding plants, and herbaceous perennials

b Includes flats, dozens, cans, and single plants

c Includes bareroot fruit trees, budwood, citrus trees, grape rootings and cuttings, and vegetable plants

FRESNO COUNTY

LIVESTOCK AND POULTRY

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Cattle and Calves						
Beef						
Breeding Stock						
Common	1999	1,320		head	\$ 650.00	\$ 858,000
	1998	1,340		head	\$ 562.00	\$ 753,000
Registered	1999	330		head	1,358.00	448,000
	1998	340		head	1,174.00	399,000
Feeders	1999	135,000	270,000	cwt.	72.00	19,440,000
	1998	171,000	342,000	cwt.	63.35	21,666,000
Calves	1999	23,100	69,300	cwt.	88.40	6,126,000
	1998	23,600	70,800	cwt.	76.50	5,416,000
Slaughter Stock	1999	246,000	1,177,000 ^a	cwt.	64.10	75,446,000
	1998	228,000	1,092,000 ^a	cwt.	60.90	66,503,000
Dairy						
Breeding Stock	1999	11,400		head	1,480.00	16,872,000
	1998	10,900		head	1,400.00	15,260,000
Cull Stock	1999	25,300	329,000	cwt.	40.60	13,357,000
	1998	23,100	301,000	cwt.	34.21	10,297,000
Calves	1999	20,200	60,700	cwt.	140.00	8,498,000
	1998	18,600	55,800	cwt.	82.60	4,609,000
Cattle and Calves Total	1999					141,045,000
	1998					124,903,000
Hogs and Pigs						
Feeder Pigs and Slaughter Stock	1999	24,900	50,600	cwt.	37.17	1,881,000
	1998	24,900	50,500	cwt.	36.00	1,818,000

LIVESTOCK AND POULTRY (continued)

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Sheep and Lambs						
Slaughter Stock						
Lambs	1999	48,400	54,500	cwt.	\$ 71.40	\$ 3,891,000
	1998	50,900	57,300	cwt	\$ 75.50	\$ 4,326,000
Sheep	1999	11,400	16,000	cwt.	29.00	464,000
	1998	12,000	16,800	cwt.	30.77	517,000
Turkeys	1999	7,486,000	179,589,000	lb.	.66	118,529,000
	1998	4,334,000	102,196,000	lb.	.55	56,208,000
Other ^b	1999					414,199,000
	1998					<u>382,437,000</u>
Total	1999					\$680,009,000
	1998					\$570,209,000

a Net gain

b Includes beneficial insects, chickens, chicks, fryers, old breeder birds, broilers, and roasters; fish; game birds; cull milk goats and kid goats; squab; turkey poults and old turkey breeder birds

FRESNO COUNTY

LIVESTOCK AND POULTRY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
Manure	1999	831,000	ton	\$ 6.30	\$ 5,235,000
	1998	771,000	ton	\$ 6.79	\$ 5,235,000
Milk					
Manufacturing	1999	68,000	cwt.	11.65	792,000
	1998	52,400	cwt.	12.83	672,000
Market ^a	1999	16,715,000	cwt.	13.28	221,975,000
	1998	15,407,000	cwt.	14.83	228,486,000
Wool	1999	570,000	lb.	.37	211,000
	1998	600,000	lb.	.60	360,000
Eggs					
Chicken & Turkey ^b	1999	786,000	dozen	6.34	4,983,000
	1998	783,000	dozen	5.80	<u>4,541,000</u>
Total	1999				\$233,196,000
	1998				\$239,294,000

a Includes cow and goat milk

b Includes market eggs and hatching eggs

FRESNO COUNTY

APIARY PRODUCTS AND POLLINATION SERVICES

ITEM	YEAR	PRODUCTION TOTAL	UNIT	VALUE	
				PER UNIT	TOTAL
Apiary Products ^a					
Honey	1999	2,075,000	lb.	\$.55	\$ 1,141,000
	1998	1,727,000	lb.	\$.59	\$ 1,019,000
Beeswax	1999	38,600	lb.	1.32	51,000
	1998	49,500	lb.	1.60	79,000
Pollination ^b					
Alfalfa Seed	1999	97,400	colony	32.25	3,141,000
	1998	85,700	colony	28.00	2,400,000
Trees, Fruit and Nut ^c	1999	146,000	colony	40.44	5,904,000
	1998	123,000	colony	39.30	4,834,000
Cantaloupe	1999	36,900	colony	17.26	637,000
	1998	38,600	colony	17.51	<u>676,000</u>
Total	1999				\$10,874,000
	1998				\$ 9,008,000

a Reflects bee colonies registered in Fresno County by commercial and semi-commercial beekeepers:
1999 - 37,096 colonies; 1998 - 41,246 colonies

b Reflects value of pollination by all bee colonies located in Fresno County for pollination services
during 1999. Estimated total colonies: 139,570

c Almonds, cherries, and plums

FRESNO COUNTY

INDUSTRIAL CROPS

CROP	YEAR	PRODUCTION	UNIT	VALUE
Timber^a	1999	21,010,000	board feet	\$ 5,907,000
	1998	23,227,000	board feet	\$ 6,146,000
Firewood	1999	5,600	cords	280,000
	1998	8,390	cords	<u>420,000*</u>
Total	1999			\$ 6,187,000
	1998			\$ 6,566,000*

a Includes government and non-government properties

* Revised

**GROWTH IN FRESNO COUNTY AGRICULTURE AS INDICATED BY GROSS
PRODUCTION VALUE OF AGRICULTURAL PRODUCTS OVER A TWENTY-ONE YEAR SPAN**

1979 - \$1,719,235,500	1990 - \$2,949,484,000*
1980 - 2,002,448,900*	1991 - 2,552,305,040*
1981 - 1,905,289,240*	1992 - 2,635,447,400*
1982 - 1,855,733,500	1993 - 3,022,311,100*
1983 - 1,727,319,500	1994 - 3,084,870,800
1984 - 1,921,020,840*	1995 - 3,142,878,300*
1985 - 2,054,060,400*	1996 - 3,324,885,800
1986 - 2,125,721,200*	1997 - 3,436,443,500*
1987 - 2,264,044,000*	1998 - 3,257,712,600*
1988 - 2,444,732,600*	1999 - 3,565,510,600
1989 - 2,607,648,800*	

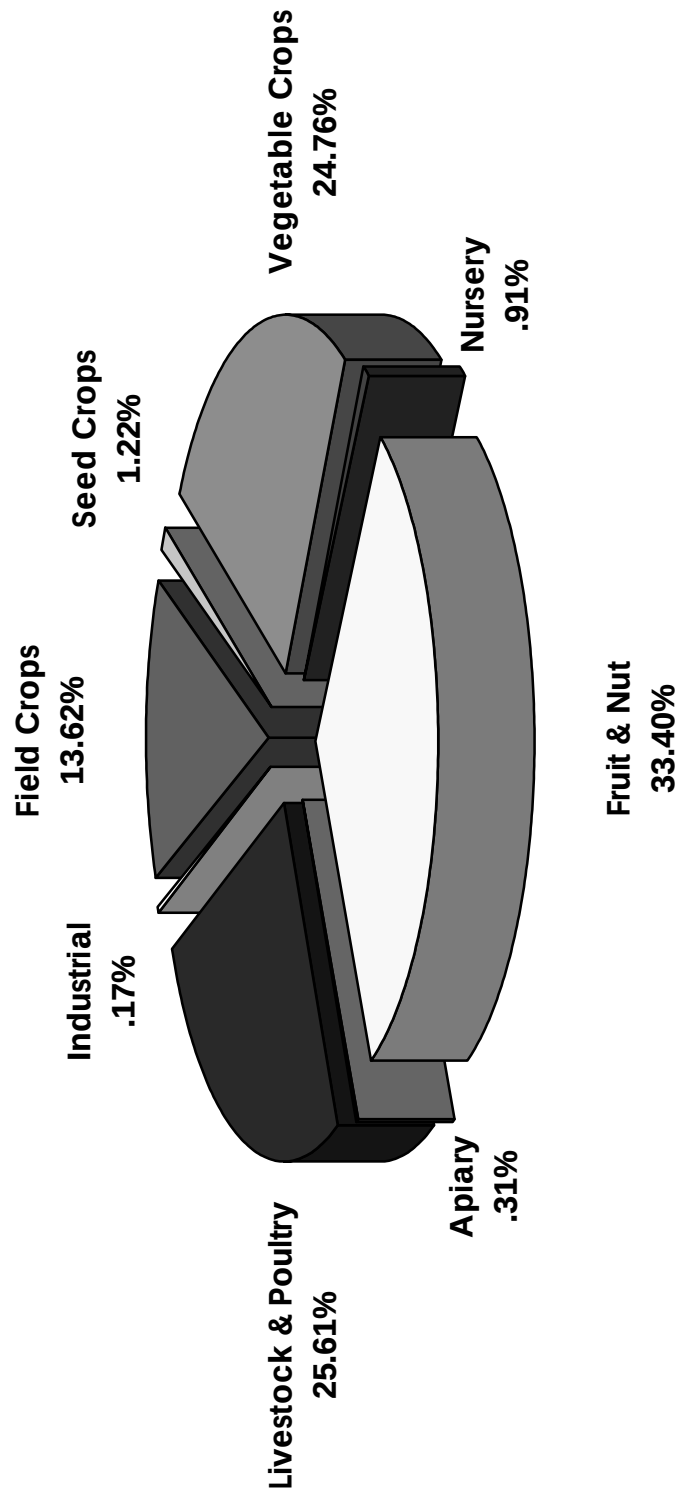
SIX-YEAR COMPARISON OF GROSS PRODUCTION VALUE IN FRESNO COUNTY

CROPS	1979	1989	1996	1997	1998	1999
Field	\$ 539,523,000	\$ 554,487,000*	\$ 674,854,000	\$ 626,737,000	\$ 466,556,000	\$ 485,640,000
Seed	38,994,000	52,401,000	28,011,000	24,075,000	33,202,000*	43,332,000
Vegetable	162,784,000	513,743,000	692,178,000	681,390,000	691,940,000	882,648,000
Fruit & Nut	631,630,500	855,915,000	1,200,374,000	1,362,559,800	1,211,362,000*	1,191,094,000
Nursery	4,345,000	13,670,000	16,846,500	36,837,200	29,575,600	32,530,600
Livestock	337,382,300	605,137,000*	693,122,000	685,664,000*	809,503,000	913,205,000
Apiary	4,576,700	6,189,800	7,988,000	8,486,000	9,008,000	10,874,000
Industrial	+	6,106,000	11,512,300	10,694,500	6,566,000*	6,187,000
TOTAL	\$ 1,719,235,500	\$2,607,648,800*	\$3,324,885,800	\$3,436,443,500*	\$3,257,712,600*	\$3,565,510,600

*Revised

+Not reported

RELATIONSHIP IN TERMS OF TOTAL VALUE
FOR 1999 CROP YEAR
\$3,565,510,600



**GROWTH OF FRESNO COUNTY AGRICULTURE
OVER A TWENTY YEAR SPAN
1980 through 1999**

