

# AGRICULTURAL CROP REPORT

KINGS COUNTY, CALIFORNIA 1989



KINGS COUNTY  
DEPARTMENT OF AGRICULTURE

\*\* PERSONNEL \*\*

AGRICULTURAL COMMISSIONER-SEALER OF WEIGHTS AND MEASURES

M. HUGH HANDLEY

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Crop Report Cover: SAFFLOWER:  
"ITS OIL MEETING THE NEEDS OF THE 1990'S."

# COUNTY OF KINGS



## AGRICULTURAL COMMISSIONER SEALER OF WEIGHTS AND MEASURES

M. Hugh Handley  
Agricultural Commissioner  
Sealer Of Weights And Measures

680 N. Campus Drive

Hanford, California 93230

(209) 582-3211 Ext. 2830

April 2, 1990

Henry J. Voss, Director  
California Department of Food and Agriculture  
and  
The Honorable Board of Supervisors  
County of Kings

Gentlemen:

I am pleased to submit the 1989 Agricultural Crop Report, for the acreage, production and value of agricultural crops and products in Kings County, which was compiled in accordance with Section 2279 of the California Food and Agricultural Code.

This year's agricultural crop and livestock report represents a total gross return of \$741,553,000. This is an increase of \$107,158,000. over the previous year.

It must be emphasized that this report reflects a gross return and in no way represents a measure of profit or loss to the producer.

I wish to express my appreciation for the continuing cooperation of all those who have provided the information necessary for the compilation of the report. I would also like to express my appreciation to Buzz Felleke and Stace Leoni of my staff, who compiled the report.

Respectfully submitted,

M. Hugh Handley  
Agricultural Commissioner  
Sealer of Weights and Measures

MHH:dod

## SAFFLOWER

Safflower, Carthamus tinctorius L. is a member of the thistle family, and related to the artichoke. It is an upright annual, 2 to 6 feet high, with yellow or orange flower heads which makes it highly attractive to bees.

Safflower was first grown for colorings by the Egyptians. In 1930's safflower was introduced to the United States, mainly in Montana on a small scale. In Kings County, one of the farming companies grew safflower experimentally, near Corcoran in 1931. In 1950, safflower plantings by California growers was disastrous due to root-rot problem. After further field testing in Kings County, the first commercial safflower crop was a success in 1957. Since then, acreages have continued to increase in Kings County, except for 1983, when the acreage dropped drastically due to the flooding of the Tulare Lake Basin.

Safflower has an unusually fast growing root system, which may grow to depths of 12 feet in four to five months. This deep rooting has been most beneficial to compacted or water saturated soil. Leaching of salts also can occur with subsequent irrigation, benefiting crops such as cotton and barley that follow safflower.

Growers call it a non-care crop, as safflower can be planted on moist, fertile soil in March and requires no further care until harvest.

Safflower was initially used as a coloring for food and dyes and later the seed was used in interior paints. In the 1950's it was discovered as a food source, particularly for the preparation of high polyunsaturated foods (margarine and cooking oil) aiding in the lessening of cholesterol in the human circulatory system. It's bland flavor makes it suitable for spray food coatings for dried fruit, and a medium for carry flavors, seasonings, and nutritional supplements.

The most popular variety grown in Kings County is 5317 with an oil structure of oleic acid, low saturated fat, and very stable, making it very suitable for salad oil. As consumers become more aware of the health benefits of safflower, demand for it's use should increase.

ANNUAL CROP REPORT  
FOR YEAR 1989

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KINGS COUNTY DEPARTMENT OF AGRICULTURE

M. HUGH HANDLEY  
AGRICULTURAL COMMISSIONER  
SEALER OF WEIGHTS AND MEASURES

\*\*\*\*\*

KINGS COUNTY  
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COUNTY ADMINISTRATIVE OFFICER

MILTON D. McCOY

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FIELD CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Barley	1989	22,577	2.26	51,024	Ton	\$ 121.00	\$ 6,174,000
	1988	19,395	2.18	42,281	Ton	\$ 115.00	\$ 4,862,000
Beans							
Dry <u>a/</u>	1989	2,500	1.00	2,500	Ton	421.00	1,054,000
	1988	1,800	1.50	2,700	Ton	495.00	1,336,000
Corn							
Grain	1989	8,622	4.80	41,414	Ton	104.00	4,307,000
	1988	9,558	4.50	43,011	Ton	120.00	5,161,000
Cotton							
Acala-Lint <u>b/</u>	1989	245,763	2.40	589,831	495 lb.	366.00	215,878,000
	1988	289,209	1.87	540,821	495 lb.	337.00	182,257,000
Acala-Seed	1989			243,305	Ton	165.00	40,145,000
	1988			223,088	Ton	185.00	41,271,000
Cotton							
Pima-Lint <u>b/</u>	1989	1,377	2.33	3,208	495 lb.	465.00	1,492,000
	1989			1,323	Ton	130.00	172,000
Hay							
Alfalfa	1989	31,144	8.95	278,739	Ton	102.00	28,431,000
	1988	26,749	7.35	196,605	Ton	89.00	17,498,000
Other <u>c/</u>	1989	1,100	3.80	4,180	Ton	80.00	334,000
	1988	1,122	3.80	4,264	Ton	70.00	298,000
Pasture							
Irrigated	1989	12,500			Acre	108.00	1,350,000
	1988	12,000			Acre	108.00	1,296,000
Range	1989	150,000			Acre	2.00	300,000
	1988	120,000			Acre	2.00	240,000
Alfalfa Stubble	1989	49,000			Acre	18.00	882,000
	1988	50,000			Acre	18.00	900,000
Safflower							
	1989	54,380	1.64	89,183	Ton	300.00	26,755,000
	1988	34,169	1.51	51,595	Ton	296.00	15,272,000

FIELD CROPS (CONTINUED)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Sugar Beets	1989	3,198	20.00	65,879	Ton	\$ 36.12	\$ 2,380,000
	1988	2,656	23.00	61,088	Ton	\$ 30.00	\$ 1,833,000
Wheat	1989	41,596	3.13	130,195	Ton	138.28	18,003,000
	1988	41,041	2.86	117,377	Ton	122.00	14,320,000
Other <u>d/</u>	1989	9,205					4,352,000
	1988	5,566*					1,769,000*
TOTAL	1989	632,968					\$ 351,926,000
	1988	613,265*					\$ 288,313,000*

a/ Soybeans and blackeye beans.

b/ 495 lb. = 1 bale.

c/ Includes hay and green chop from barley, oats, seed alfalfa, and wheat.

d/ Includes oats, oat silage, screenings, sorghum grain, straw, triticale, wheat silage, and winter forage.

\* Revised.

SEED CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Alfalfa Certified	1989	21,052	627	13,199,604	lb.	\$ 1.34	\$ 17,687,000
	1988	17,384	654	11,369,136	lb.	\$ 1.31	\$ 14,894,000
Non-certified	1989	1,200	627	752,400	lb.	1.12	843,000
	1988	1,000	654	654,000	lb.	1.10	719,000
Total	1989	22,252		13,952,004	lb.		18,530,000
	1988	18,384		12,023,136	lb.		15,613,000
Barley	1989	1,246	4,500	5,607,000	lb.	.09	505,000
	1988	620	5,340	3,310,800	lb.	.06	199,000
Cotton <u>a/</u>	1989	8,876		3,728	Ton	197.00	734,000
	1988	7,600		3,268	Ton	208.00	680,000
Wheat	1989	15,469	5,500	85,079,500	lb.	.10	8,508,000
	1988	10,372	6,620	68,662,640	lb.	.07	4,806,000

SEED CROPS (CONTINUED)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Lettuce	1989	316	651	205,716	lb.	\$ 5.75	\$ 1,183,000
	1988	172	491	84,452	lb.	\$ 2.38	\$ 201,000
Vegetable <u>b/</u>	1989	174					247,000
Other <u>c/</u>	1989	410					1,614,000
	1988	2,848					4,099,000
TOTAL	1989	39,867					\$ 31,321,000
	1988	32,396					\$ 24,918,000

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

b/ Eggplant, onion, and watermelons.

c/ Cow peas, flowers, oats, and turf.

FRUIT AND NUT CROPS

CROP	YEAR	BEARING ACREAGE	PRODUCTION		PER TON	VALUE	
			PER ACRE	TOTAL		TOTAL	
Almonds	1989	3,061	.66	2,020	\$ 2,160.00	\$ 4,363,000	
	1988	2,998	.69	2,069	\$ 1,800.00	\$ 3,724,000	
Almond Hulls	1989			1,071	68.00	73,000	
	1988			1,097	65.00	71,000	
Apples							
	Fresh	1989	156	8.32	1,298	656.00	851,000
Processed	1989			774	74.00	57,000	
Apricots							
	Fresh	1989	250	8.92	1,803	583.00	1,051,000
	1988	250	7.76	1,164	892.00	1,038,000	
Processed	1989			427	184.00	79,000	
	1988			349	270.00	94,000	
Grapes							
Raisin Varieties							
Fresh	1989			1,504	782.00	1,176,000	
Dried				1,753	900.00	1,578,000	
Crushed				8,739	130.00	1,136,000	
Canned				533	218.00	116,000	
Total		2,255		12,529		4,006,000	



FRUIT AND NUT CROPS (CONTINUED)

CROP	YEAR	BEARING ACREAGE	PRODUCTION		VALUE	
			PER ACRE	TOTAL	PER TON	TOTAL
Raisin Varieties						
Fresh	1988			2,126	\$ 694.00	\$ 1,475,000
Dried				1,484	887.00	1,316,000
Crushed				9,783	127.00	1,242,000
Canned				240	200.00	48,000
Total		2,213		13,636		4,081,000
Table Varieties						
	1989	513	8.05	4,129	855.00	3,530,000
	1988	264	8.26	2,181	874.00	1,906,000
Wine Varieties						
	1989	954	8.04	7,670	172.00	1,319,000
	1988	800	9.00	7,200	152.00	1,094,000
Grapes Total	1989	3,722				8,855,000
	1988	3,277				7,081,000
Kiwifruit	1989	323	6.12	1,977	1,426.00	2,819,000
	1988	323	5.00	1,615	1,906.00	3,078,000
Nectarines	1989	1,414	8.30	11,736	782.00	9,178,000
	1988	1,276	9.76	12,454	779.00	9,702,000
Olives	1989	1,213	1.60	1,941	555.00	1,077,000
	1988	1,142	3.51	4,008	587.00	2,353,000
Peaches						
Clingstone	1989	992	15.00	14,880	203.00	3,021,000
	1988	1,052	20.00	21,040	213.00	4,482,000
Freestone	1989	1,968	11.06	21,766	754.00	16,412,000
	1988	1,757	11.13	19,555	715.00	13,982,000
Peaches Total	1989	2,960		36,646		19,433,000
	1988	2,809		40,595		18,464,000
Pistachios	1989	4,436	.46	2,040	3,400.00	6,936,000
	1988	4,404	.90	3,964	2,760.00	10,941,000
Plums	1989	1,756	4.90	8,604	621.00	5,343,000
	1988	1,974	6.36	12,555	715.00	8,977,000

FRUIT AND NUT CROPS (CONTINUED)

CROP	YEAR	BEARING ACREAGE	PRODUCTION		VALUE	
			PER ACRE	TOTAL	PER TON	TOTAL
Pomegranates	1989	160	6.56	1,050	\$ 566.00	\$ 594,000
	1988	161	6.97	1,122	\$ 636.00	\$ 714,000
Walnuts	1989	4,610	1.59	7,329	880.00	6,450,000
	1988	4,462	1.56	6,961	980.00	6,822,000
Wood <u>a/</u>	1989			555*	100.00	55,000
	1988			492*	83.00	41,000
Other <u>b/</u>	1989	391				753,000
	1988	479				2,261,000
TOTAL	1989	24,410				\$ 67,970,000
	1988	23,555				\$ 75,361,000

a/ Includes all Varieties.

b/ Includes Asian pears, jojoba, pecans, persimmons, prunes, and quince.

\* Measured in Cords.

VEGETABLE CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		VALUE		
			PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Broccoli Fresh	1989	912	3.71	3,383	Ton	\$ 293.00	\$ 991,000
	1988	842	5.89	4,368	Ton	\$ 343.00	\$ 1,701,000
Processed	1989			487	Ton	465.00	226,000
Cantaloupes	1989	1,390	8.30	11,620	Ton	231.00	2,680,000
	1988	1,044	8.64	9,020	Ton	320.00	2,886,000
Sweet Corn	1989	618	12.83	7,929	Ton	197.00	1,562,000

VEGETABLE CROPS (CONTINUED)

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Tomatoes							
Fresh	1989	917	25.62	23,493	Ton	\$ 400.00	\$ 9,397,000
	1988	2,187	15.81	34,576	Ton	\$ 442.00	\$ 15,283,000
Processed	1989	3,600	27.50	99,100	Ton	52.10	5,158,000
	1988	720	27.80	20,016	Ton	48.20	965,000
Other <u>a/</u>	1989	3,002					8,516,000
	1988	2,798					8,435,000
TOTAL	1989	10,439					\$ 28,293,000
	1988	7,986					\$ 29,823,000

a/ Includes Asparagus, bell peppers, Chinese cabbage, eggplant, garbanzo beans, lettuce, lima beans, misc. melons, onions, processed carrots, processed garlic, squash, and watermelons.

INVENTORIES OF LIVESTOCK AND POULTRY (IN NUMBER OF HEAD)

ITEM	January 1, 1990	January 1, 1989
Cattle and Calves		
All	210,000	203,000
Dairy Cows 2 Years and Over	78,000	71,000
Cattle and Calves on Feed	3,800	3,500
Other	128,200	128,000
Sheep and Lambs	18,000	19,000
Goats	1,300	1,200
Hogs and Pigs	5,800	600
Hens and Pullets	0	108,000
Turkeys	701,521	433,651

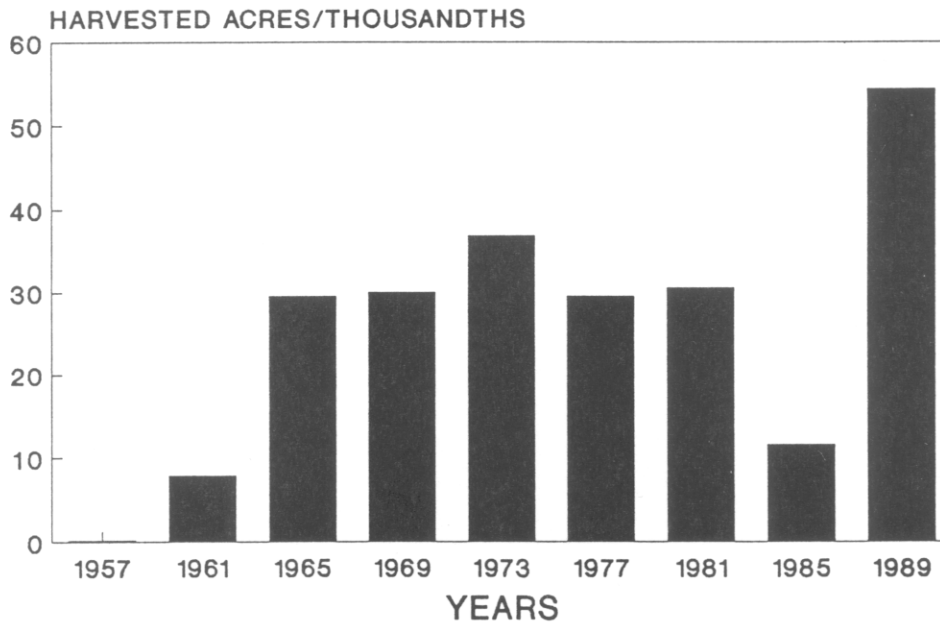
## LIVESTOCK AND POULTRY

ITEM	YEAR	PRODUCTION			VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT	UNIT	PER UNIT	TOTAL
Breeding Stock <u>a/</u>	1989					\$ 1,915,000
	1988					\$ 969,000
Cattle and Calves	1989	149,653	911,386	Cwt.	\$ 66.50	60,607,000
	1988	146,212	891,893	Cwt.	\$ 64.50	57,527,000
Hogs and Pigs	1989	6,050	13,613	Cwt.	45.98	626,000
	1988	1,076	2,432	Cwt.	46.05	112,000
Sheep and Lambs	1989	9,888	10,976	Cwt.	78.00	856,000
	1988	12,676	14,831	Cwt.	87.00	1,290,000
Turkeys	1989	2,806,086	61,060,431	lb.	.51	31,141,000
	1988	1,734,604	36,426,684	lb.	.50	18,213,000
Other <u>b/</u>	1989					2,905,000
	1988					1,802,000
TOTAL	1989					\$ 98,050,000
	1988					\$ 79,913,000

a/ For all Animals.

b/ Includes Catfish, Chickens, and Goats.

## KINGS COUNTY SAFFLOWER PRODUCTION



## LIVESTOCK AND POULTRY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
Eggs-Chicken Market	1989	393,285	Doz.	\$ .67	\$ 264,000
	1988	230,600	Doz.	\$ .61	\$ 141,000
Goats Milk	1989	16,116	Cwt.	24.33	392,000
	1988	11,183	Cwt.	22.00	246,000
Manure	1989	319,512	Ton	4.47	1,428,000
	1988	291,150	Ton	3.92	1,144,000
Milk Market	1989	13,023,086	Cwt.	12.22	159,142,000
	1988	12,061,843	Cwt.	10.68	128,820,000
Manufacturing	1989	38,120	Cwt.	11.60	442,000
	1988	44,376	Cwt.	9.89	439,000
Wool	1989	102,835	lb.	1.50	154,000
	1988	131,830	lb.	1.62	214,000
TOTAL	1989				\$ 161,825,000
	1988				\$ 131,004,000

## APIARY PRODUCTS

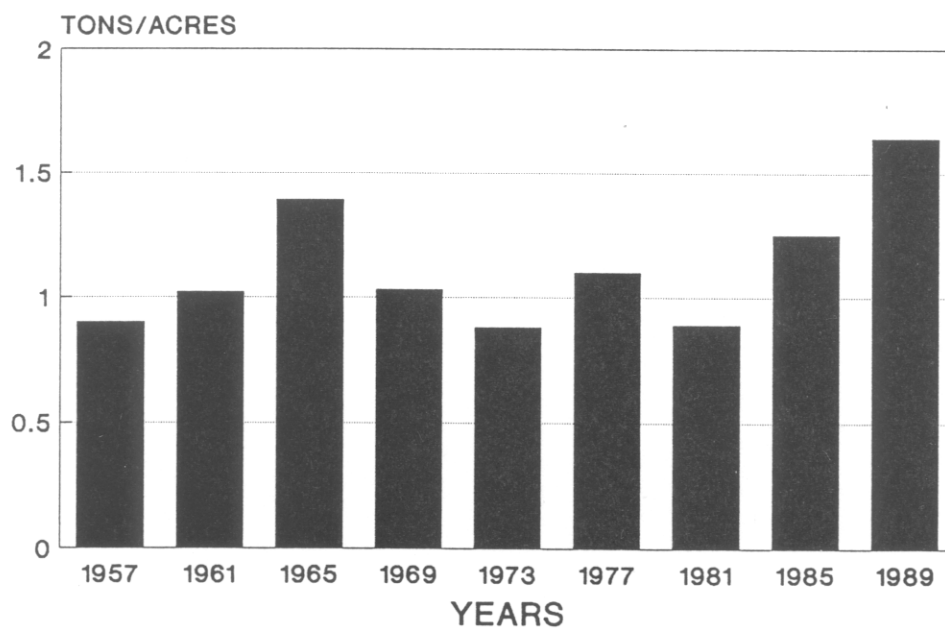
ITEM	YEAR	PRODUCTION TOTAL	UNIT	VALUE	
				PER UNIT	TOTAL
Apiary Products Honey	1989	1,123,125	lb.	\$ .54	\$ 606,000
	1988	2,995,921	lb.	\$ .57	\$ 1,708,000
Beeswax	1989	18,719	lb.	1.00	19,000
	1988	49,932*	lb.	.85	42,000

APIARY PRODUCTS (CONTINUED)

ITEM	YEAR	PRODUCTION TOTAL	UNIT	VALUE	
				PER UNIT	TOTAL
Pollination					
Seed Crops					
Alfalfa	1989	63,156	Colonies	\$ 20.00	\$ 1,263,000
	1988	50,892	Colonies	\$ 19.00	\$ 967,000
Tree Fruit <u>a/</u>	1989	9,634	Colonies	26.05	251,000
	1988	9,739	Colonies	24.00	234,000
Cantaloupe	1989	2,085	Colonies	14.00	29,000
	1988	3,112	Colonies	13.00	40,000
<hr/>					
TOTAL	1989				\$ 2,168,000
	1988				\$ 2,991,000

a/ Almonds and Plums.

SAFFLOWER YIELD  
FOR 33 YEARS



## FIVE YEAR COMPARISON OF ACREAGE AND CROP VALUES

	1985	1986	1987	1988	1989
Apiary Products	\$ 3,364,000	\$ 3,672,000	\$ 3,129,000	\$ 2,991,000	\$ 2,168,000
Field Crops	262,055,000	255,029,000	336,001,000	290,385,000	351,926,000
Acreage	647,189	622,379	645,314	618,026	632,968
Fruit and Nut Crops	46,070,000	59,070,000	53,537,000	75,361,000	67,970,000
Acreage	24,277	29,620	24,522	23,555	24,410
Livestock and Poultry	59,250,000	56,997,000	69,265,000	79,913,000	98,050,000
Livestock and Poultry Products	127,456,000	126,117,000	133,286,000	131,004,000	161,825,000
Seed Crops	28,201,000	25,390,000	19,810,000	24,918,000	31,321,000
Acreage	41,831	45,052	34,623	32,396	39,862
Vegetable Crops	26,070,000	19,370,000	21,351,000	29,823,000	28,293,000
Acreage	10,373	9,385	12,230	7,986	10,225
<b>TOTALS</b>	<b>\$ 552,466,000</b>	<b>\$ 545,645,000</b>	<b>\$ 636,379,000</b>	<b>\$ 634,395,000</b>	<b>\$ 741,553,000</b>

## COMPARISON OF CROP VALUES FOR 1988 AND 1989



MILLION DOLLAR CROPS - 1989

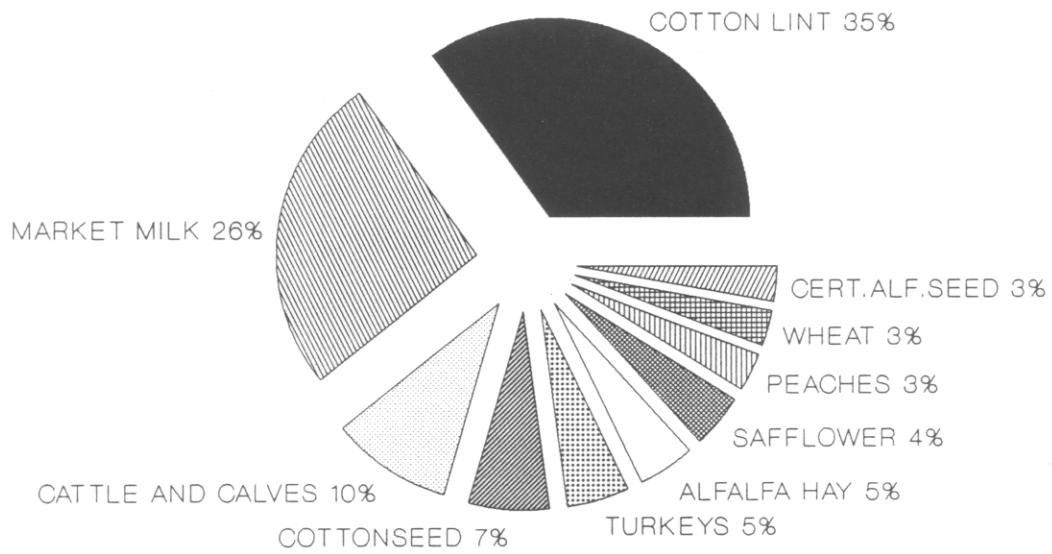
Acala Cotton Lint	\$ 215,878,000	Processing Tomatoes	\$ 5,118,000
Market Milk	159,142,000	Almonds	4,363,000
Cattle and Calves	60,607,000	Corn	4,224,000
Acala Cotton Seed	40,145,000	Kiwifruit	2,819,000
Turkeys	31,141,000	Cantaloupes	2,665,000
Hay Alfalfa	28,431,000	Sugar Beets	2,380,000
Safflower	26,755,000	Breeding Stock	1,915,000
Peaches	19,443,000	Sweet Corn	1,562,000
Wheat	18,003,000	Pollination	1,543,000
Certified Alfalfa Seed	17,687,000	Pima Cotton	1,492,000
Fresh Tomatoes	9,397,000	Manure	1,428,000
Nectarines	9,178,000	Irrigated Pasture	1,350,000
Grapes	8,855,000	Broccoli	1,217,000
Certified Wheat Seed	8,508,000	Lettuce Seed	1,183,000
Pistachios	6,938,000	Apricots	1,130,000
Walnuts	6,450,000	Olives	1,078,000
Barley	6,174,000	Dry Beans	1,054,000
Plums	5,343,000		

1989 CROP SUMMARY

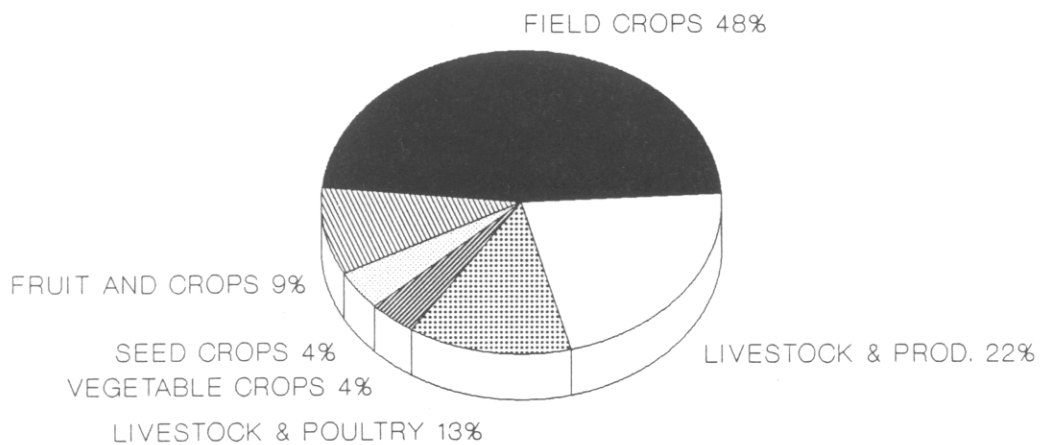
Apiary Products	\$ 2,168,000
Field Crops	351,926,000
Fruit and Nut Crops	67,970,000
Livestock and Poultry	98,050,000
Livestock and Poultry Products	161,825,000
Seed Crops	31,321,000
Vegetable Crops	28,293,000
<b>GRAND TOTAL</b>	<b>\$ 741,553,000</b>



## TOP TEN CROPS OF KINGS COUNTY FOR 1989



## KINGS COUNTY 1989 TOTAL CROP VALUE



## GENERAL KINGS COUNTY INFORMATION

County Seat	Hanford
County Population (1989)	96,012
Population per Square Mile	61
Total Assessed Value	\$ 1,748,615,339
Land Area (Square Miles)	1392
Total Acres	918,790
Number of Farms (1982)	1,187
Land in Farms (Acres - 1986)	816,228
Foreign Ownership (Acres) (13 parcels - 1987)	8,255 (acres) (value - \$ 4,356,000)
Total Cropland (Acres -1982)	613,693
Irrigated Cropland (Acres - 1982)	554,114
Total Agricultural Work Force	7,190
Public Ownership of Land (Acres): (1977)	
Federal	30,974 (3.5%)
State	3,452 ( .4%)
County & City	9,951 (1.1%)
School & Special Districts	4,426 ( .4%)

Agricultural production ranked 11th among California counties and 16th among U.S. counties (Based on 1987 total value.)

Railroads - Santa Fe, Southern Pacific

Major Roads - Interstate 5 , Highway 41, Highway 43 & Highway 198

Water Sources - Kings River, Tule River, Kaweah River, Kern River, Calif. Aquaduct

Elevation - 225 to 250 feet above sea level (800 feet in the Kettleman Hills)

Average length of growing season: 257 days

Average date of last spring frost: March 3

Average climate: 196 sunny clear days, 74 partly cloudy days, 95 cloudy days

Average date of first fall frost: November 18

HANFORD, CALIFORNIA

RAINFALL TABLE

YEAR	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	TOTAL
1939-40	.12	.00	.00	.04	.57	.06	.22	3.53	3.61	.99	.18	.00	9.32
1940-41	.00	.00	.00	.00	.85	.00	3.65	1.51	3.90	1.82	2.64	.00	14.37
1941-42	.00	.00	.00	.00	.86	.50	3.32	.91	.88	.50	1.19	.16	8.32
1942-43	.00	.00	.00	.00	.00	.43	.86	2.74	1.14	3.36	.84	.00	9.37
1943-44	.00	.00	.00	.00	.03	.21	1.03	1.30	2.80	.39	.86	.28	6.90
1944-45	.00	.00	.00	.02	.23	2.25	1.05	.27	2.69	1.81	.16	.10	8.58
1945-46	.18	.00	.00	.01	.62	1.15	1.61	.34	1.52	2.57	.07	.41	8.48
1946-47	.00	.11	.00	.00	1.49	1.10	1.64	.33	.49	.51	.66	.33	6.66
1947-48	.01	.00	.00	.00	.47	.29	.51	.00	.43	1.49	1.56	.55	5.31
1948-49	.53	.00	.00	.00	.00	.03	.01	.99	.51	.85	1.94	.07	4.93
1949-50	.00	.00	.00	.00	.00	.00	.60	.68	1.48	1.13	1.10	.40	5.39
1950-51	.07	.00	.08	.00	.00	.34	.63	1.06	1.24	.76	.22	1.17	5.57
1951-52	.02	.00	.00	.00	.08	1.11	2.39	3.03	.27	2.18	.79	.01	9.88
1952-53	.02	.00	.00	.17	.05	.65	2.96	1.10	.27	.34	.83	.29	6.68
1953-54	.08	.00	.00	.00	.02	1.01	.09	1.89	.78	2.21	.52	.34	6.94
1954-55	.00	.00	.00	.00	.00	.66	1.61	3.25	1.31	.43	.69	.90	8.85
1955-56	.00	.00	.00	.00	.02	.92	4.67	1.10	.38	.10	.73	.77	8.69
1956-57	.07	.00	.00	.00	.73	.00	.15	1.39	1.22	.05	.88	.61	5.10
1957-58	.00	.00	.00	.00	.20	1.19	1.41	1.85	2.30	3.93	2.38	.24	13.50
1958-59	.00	.00	.11	.11	.00	.23	.16	1.35	1.90	.11	.52	.00	4.49
1959-60	.00	.00	.00	.11	.00	.00	.17	.80	1.71	.61	.57	.00	3.97
1960-61	.00	.02	.00	.53	.00	2.61	.03	1.34	.22	.67	.22	.37	6.01
1961-62	.00	.00	.00	.00	.00	1.11	1.28	.71	4.88	1.06	.00	.11	9.15
1962-63	.00	.00	.00	.01	.10	.00	.19	1.19	1.68	1.37	2.88	.56	7.98
1963-64	.17	.00	.00	.33	.75	1.23	.31	.61	.02	.94	.64	.20	5.20
1964-65	.00	.00	.34	.00	.95	1.31	1.44	1.18	.33	.33	1.57	.00	7.45
1965-66	.00	.00	.05	.07	.05	2.15	1.97	.63	.71	.10	.00	.07	5.80
1966-67	.06	.04	.00	.29	.09	1.28	2.57	1.41	.05	2.42	2.95	.07	11.23
1967-68	.23	.00	.00	.31	.00	1.99	.50	.62	.64	1.00	.50	.08	5.87
1968-69	.00	.00	.00	.00	1.33	.98	1.64	6.69	4.54	.79	.85	.32	17.14
1969-70	.21	.07	.00	.15	.05	.51	.70	1.60	1.33	1.42	.14	.00	6.18
1970-71	.00	.00	.00	.00	.00	2.40	1.23	.35	.19	.23	.40	1.44	6.24
1971-72	.00	.00	.00	.04	.06	.41	1.87	.04	.35	.00	.23	.00	3.00
1972-73	.00	.00	.00	.24	.21	2.90	.65	2.44	2.29	2.20	.12	.00	11.05
1973-74	.00	.00	.00	.00	.76	.46	.94	2.97	.13	1.75	.03	.00	7.04
1974-75	.00	.00	.00	.00	.65	.24	1.40	.09	2.26	1.24	.49	.00	6.37
1975-76	.00	.00	.00	.98	.76	.05	.22	.00	2.94	.19	1.47	.03	6.64
1976-77	.01	.00	.22	1.47	.00	1.15	.96	.96	.03	.43	.00	.01	5.24
1977-78	.07	.00	.00	.00	.05	.06	2.85	2.22	5.05	4.12	1.71	.00	16.13
1978-79	.00	.00	.00	1.10	.00	.79	.50	1.84	1.61	1.16	.03	.00	7.03
1979-80	.00	.04	.00	.08	.41	.62	.41	2.90	2.71	1.28	.05	.04	8.54
1980-81	.00	.00	.00	.00	.09	.00	.21	1.80	.86	2.10	.68	.17	5.91
1981-82	.00	.00	.00	.00	.76	1.08	.29	.84	.33	3.52	1.75	.00	8.57
1982-83	.45	.18	.00	.64	1.03	2.15	.71	3.74	2.59	3.39	1.63	.04	16.55
1983-84	.00	.00	.05	.82	.43	1.66	1.22	.01	.42	.27	.18	.00	5.06
1984-85	.00	.00	.00	.01	.52	1.41	1.66	.59	.61	.68	.12	.01	5.61
1985-86	.00	.05	.00	.00	.54	2.11	.56	1.46	2.60	3.40	.45	.00	11.17
1986-87	.00	.00	.00	.15	.00	.21	.77	1.77	2.04	2.02	.06	.13	7.15
1987-88	.05	.00	.00	.00	.86	.72	1.74	1.37	.40	.93	2.65	.07	8.79
1988-89	.06	.00	.00	.00	.00	1.33	2.29	1.02	2.03	.85	.02	.39	7.99
1989-90	.00	.00	.00	.67	.32	.20							
AVERAGE	.05	.01	.02	.16	.33	.89	1.20	1.44	1.49	1.32	.82	.21	7.95
								50 year average rainfall					7.95