

AGRICULTURAL CROP REPORT

KINGS COUNTY, CALIFORNIA 1991



KINGS COUNTY
DEPARTMENT OF AGRICULTURE

**** PERSONNEL ****

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M. HUGH HANDLEY

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Crop Report Cover: PIMA COTTON:
"THE WORLD'S FINEST COTTON"

COUNTY OF KINGS



AGRICULTURAL COMMISSIONER SEALER OF WEIGHTS AND MEASURES

M. Hugh Handley
Agricultural Commissioner
Sealer Of Weights And Measures

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April 1, 1992

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 1991 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.

The gross value of all agricultural crops and products for 1991 was \$738,316,000., down over 48 million dollars (-6.1%) from last year's (1990) record high.

The continued drought with an inadequate water supply for agricultural production, coupled with the severe freeze of December 1990 challenged producers with unfavorable odds.

Most crop categories reflected decreases in value, including field crops (-14.8%), livestock and poultry products (-3.7%) and seed crops (-3.2%).

However, apiary products (+42.7%), livestock and poultry (+5.9%), vegetable crops (+20.1%) and fruit and nut crops (+.89%) reflected substantial increased values.

Cotton continued to be Kings County's main crop with a value of \$244,753,000. including lint and seed.

All figures in this report are gross values and do not indicate net profit received by growers.

This report could not have been possible without the input received from individuals who contributed their time and information. I wish to extend a special thanks to Buzz Felleke of my staff who compiled the report.

Respectfully submitted,

M. Hugh Handley
Agricultural Commissioner
Sealer of Weights and Measures

PIMA COTTON

The history of Pima Cotton started in the late 1600's, when it was introduced by the European settlers in the Sun Belt of the United States. In the late 1700's, Pima Cotton took the status of an important crop in American Agriculture. At the time Sea Island Pima Cotton, which was grown primarily on Hilton Head Island Georgia area, was the finest extra-long staple cotton. Most of it was exported to Europe. However, the Island Cotton didn't produce well due to the short growing season and the boll weevil problem. Later, there were crosses made between the Sea Island and other extra-long staple varieties in Egypt and other countries, and seed was brought back to the United States. In 1912, the first commercial crops of Pima Cotton named after the local Indians was harvested in the Yuma area and Salt River Valley in Arizona.

During World War I the Pima industry expanded to meet the demands for cotton used in the production of war materials such as parachute webbing, gun belts and cotton reinforcing of rubber tires. Pima Cotton was so well suited for use with rubber that in 1920, the Goodyear Tire and Rubber Company of Akron, Ohio, established its own Arizona farms. Other companies, such as Firestone and Dunlop also came into the market.

Over the years, there has been continuing interest to develop a Pima Cotton in specific growing areas. Today, Pima S-6 has the best combination of highest yield, earliest maturity, greatest heat tolerance and longest fiber of any previous variety of extra-long staple cotton.

By the 1940's Pima production had expanded to New Mexico and the El Paso region of west Texas. The San Joaquin Valley of California joined its neighboring state in Pima production in 1989. The increase in acreage of Pima Cotton is due to the increased demand from mills, manufacturers, designers, retailers and consumers for an extra-long staple cotton with a dependable and excellent performance. Pima is the premier cotton for comfortable and fashionable clothing. Its extra-long staple cotton guarantees that it will remain durable and resilient for a prolonged period of wear. Its silky finish makes Pima attractive to the eye and to the touch.

Pima Cotton has had excellent performance and has made Kings County its home with the largest roller gin in California. New varieties are being developed to further adapt to the local environment and soil condition. A new generation of cotton which started three years ago in the San Joaquin Valley captured the interest of cotton growers and has grown strong with future promising success.

ANNUAL CROP REPORT FOR YEAR 1991

KINGS COUNTY DEPARTMENT OF AGRICULTURE

M. HUGH HANDLEY
AGRICULTURAL COMMISSIONER
SEALER OF WEIGHTS AND MEASURES

KINGS COUNTY BOARD OF SUPERVISORS

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COUNTY ADMINISTRATIVE OFFICER

MILTON D. McCOY

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FIELD CROPS

CROP	YEAR	HARVESTED PRODUCTION		TOTAL	UNIT	VALUE	
		ACREAGE	PER ACRE			PER UNIT	TOTAL
Barley	1991	26,701	2.15	57,407	Ton	106.00	6,085,158
	1990	34,666	2.00	69,332	Ton	121.00	\$ 17,814,000
Beans Dry a/	1991	2,640	0.89	2,350	Ton	532.00	1,249,987
	1990	1,819	1.12	2,037	Ton	570.00	1,161,250
Corn Silage	1991	19,074	22.55	430,119	Ton	16.00	6,881,899
	1990	13,293	23.19	308,265	Ton	19.00	5,857,029
Cotton							
Acala-Lint b/	1991	218,335	2.39	521,821	495 lb	378.00	197,248,206
	1990	245,763	2.40	589,831	495 lb	386.00	227,674,843
Acala-Seed	1991			214,968	Ton	140.00	30,095,520
	1990			228,992	Ton	180.00	41,218,560
Cotton	1991	15,490	2.03	31,445	495 lb.	500.00	15,722,350
Pima-Lint b/	1990	6,670	2.17	14,474	495 lb.	652.00	9,436,983
Pima-Seed	1991			12,969	Ton	130.00	1,685,970
	1990			5,961	Ton	160.00	953,760
Hay							
Alfalfa	1991	39,982	7.53	301,064	Ton	83.00	24,988,350
	1990	38,257	8.04	307,586	Ton	107.00	32,911,732
Other c/	1991	1,100	3.75	4,125	Ton	57.00	235,125
	1990	1,285	3.90	5,012	Ton	85.00	425,978
Pasture							
Irrigated	1991	11,000			Acre	107.00	1,177,000
	1990	12,500			Acre	108.00	1,350,000
Range	1991	100,000			Acre	2.00	200,000
	1990	150,000			Acre	2.00	300,000
Alfalfa	1991	47,000			Acre	20.00	940,000
Stubble	1990	52,000			Acre	19.00	988,000
Safflower	1991	34,734	1.20	41,681	Ton	249.00	10,378,519
	1990	35,734	1.36	48,598	Ton	264.00	12,829,935
Sugar Beets	1991	5,488	20.61	113,108	Ton	35.00	3,958,769
	1990	659	29.26	19,282	Ton	32.51	626,869

FIELD CROPS

CROP	YEAR	HARVESTED PRODUCTION		UNIT	VALUE		
		ACREAGE	PER ACRE		TOTAL	PER UNIT	TOTAL
Wheat	1991	27,323	2.57	70,220	Ton	\$ 102.00	\$ 7,162,000
	1990	41,596	3.13	130,195	Ton	138.28	18,003,000
Other d/	1991	12,664					4,368,000
	1990	8,763					4,352,000
TOTAL	1991	561,531					\$ 312,378,000
	1990	643,005					366,480,000 **

a/ Blackeye beans and other dry beans.

b/ 495 lb. 1 bale.

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

d/ Includes corn grain, oat silage, millet, screening, straw, sudangrass wheat silage, and winter forage.

** Revised

SEED CROPS

CROP	YEAR	HARVESTED PRODUCTION		UNIT	VALUE		
		ACREAGE	PER ACRE		TOTAL	PER UNIT	TOTAL
Alfalfa							
Certified	1991	16,568	768	12,724,224	lb.	\$ 1.40	\$ 17,814,000
	1990	22,016	538	11,844,608	lb.	1.40	16,582,000
Non-certified	1991	1,300	712	925,600	lb.	1.06	981,000
	1990	1,600	538	860,800	lb.	1.20	1,033,000
Total	1991	17,868		13,649,824	lb.		18,795,000
	1990	23,616		12,705,408	lb.		17,615,000
Barley, Certified	1991	2,014	5,240	10,553,360	lb.	0.05	528,000
	1990	3,927	5,000	19,635,000	lb.	0.07	1,374,000
Cotton, Certified a/	1991	4,594		3,715	Ton	209.00	776,000
	1990	6,593		3,436	Ton	214.00	735,000

SEED CROPS

CROP	YEAR	HARVESTED PRODUCTION		VALUE			
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Wheat, Certified	1991	12,908	6,120	78,996,960	lb.	\$ 0.05	\$ 3,950,000
	1990	15,229	4,260	64,875,540	lb.	0.08	5,190,000
Vegetable b/	1991	304					570,000
	1990	314					438,000
Other c/	1991	915					3,681,000
	1990	523					3,229,000
TOTAL	1991	38,603					\$ 28,300,000
	1990	50,202					28,581,000

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

b/ Cauliflower, chinese cabbage, lettuce, onion, turnip, and watermelon.

c/ Garbanzo beans, flowers, oats, and turf.

FRUIT AND NUT CROPS

CROP	YEAR	BEARING PRODUCTION		VALUE			
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Almonds	1991	1,900	0.63	1,197	Ton	\$ 2,252.00	\$ 1,255,000
	1990	3,061	0.76	2,326	Ton	1,973.00	4,590,000
Almond Hulls	1991			1,071	Ton	68.00	73,000
	1990			1,045	Ton	72.00	75,000
Apples Fresh	1991			1,579	Ton	741.00	1,170,000
	1990			1,769	Ton	569.00	1,007,000
Processed	1991			1,364	Ton	124.00	169,000
	1990			1,258	Ton	72.00	91,000
Apples Total	1991	327	9.00	2,943	Ton		1,339,000
	1990	252	7.02	1,769	Ton		1,098,000

FRUIT AND NUT CROPS

CROP	YEAR	BEARING PRODUCTION		VALUE			
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Apricots							
Fresh	1991			1,094	Ton	\$ 1,147.00	\$ 1,255,000
	1990			1,439	Ton	831.00	1,196,000
Processed	1991			274	Ton	165.00	45,000
	1990			360	Ton	150.00	54,000
Apricots Total	1991	262	5.22	1,368	Ton		1,300,000
	1990	250	7.20	1,800	Ton		1,250,000
Firewood a/							
	1991			630	Cord	100.00	63,000
	1990			600	Cord	105.00	63,000
Grapes							
Raisin Varieties							
Fresh	1991			2,950	Ton	760.00	2,242,000
Dried				1,920	Ton	975.00	1,872,000
Crushed				8,757	Ton	148.00	1,296,000
Canned				980	Ton	220.00	215,600
Total		2,800		14,607			5,625,600
Grapes							
Raisin Varieties							
Fresh	1990			2,126	Ton	922.00	1,960,000
Dried				1,814	Ton	900.00	1,633,000
Crushed				8,239	Ton	126.00	1,038,000
Canned				855	Ton	214.00	183,000
Total		2,500		13,034			4,814,000
Table Varieties							
	1991	531	8.01	4,253	Ton	833.00	3,543,000
	1990	491	8.65	4,247	Ton	864.00	3,670,000
Wine Varieties							
	1991	1,111	9.11	10,121	Ton	147.00	1,488,000
	1990	1,111	8.74	9,710	Ton	155.00	1,505,000
Grapes Total	1991	4,442					10,657,000
	1990	4,102					9,989,000 **
Kiwifruit							
	1991	315	3.09	973	Ton	1,571.00	1,529,000
	1990	315	4.08	1,285	Ton	1,286.00	1,653,000
				0			
Nectarines							
	1991	1,990	7.42	14,766	Ton	755.00	11,148,000
	1990	1,414	7.58	10,718	Ton	776.00	8,317,000

FRUIT AND NUT CROPS

CROP	YEAR	BEARING		PRODUCTION		VALUE	
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Olives	1991	427	2.60	1,110	Ton	\$ 606.00	\$ 673,000
	1990	1,142	4.89	5,584	Ton	532.00	2,971,000
Peaches							
Clingstone	1991	1,298	15.70	20,379	Ton	219.00	4,463,000
	1990	959	18.39	17,636	Ton	187.00	3,298,000
Freestone	1991	2,659	10.72	28,504	Ton	546.00	15,563,000
	1990	2,064	9.17	18,927	Ton	783.00	14,820,000
Peaches Total	1991	3,957					20,026,000
	1990	3,023					18,118,000
Pistachios	1991	5,682	0.81	4,602	Ton	2,670.00	12,288,000
	1990	5,218	1.38	7,201	Ton	2,323.00	16,728,000
Plums	1991	1,990	5.21	10,368	Ton	668.00	6,926,000
	1990	1,794	5.19	9,311	Ton	877.00	8,166,000
Pomegranates	1991	349	2.50	873	Ton	1,312.00	1,145,000
	1990	347	2.06	715	Ton	872.00	623,000
Walnuts	1991	5,898	1.99	11,737	Ton	1,140.00	13,380,000
	1990	4,978	1.71	8,512	Ton	1,029.00	8,759,000
Other b/	1991	501					1,647,000
	1990	386					1,779,000
Other c/	1991						850,000
	1990						.800,000
TOTAL	1991	28,040					\$ 85,739,000
	1990	26,282					84,979,000 **

a/ Includes all varieties.

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

c/ Black walnut stumps.

**Revised

VEGETABLE CROPS

CROP	YEAR	HARVESTED PRODUCTION		VALUE			
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Broccoli							
Fresh	1991			4,635	Ton	\$ 860.00	\$ 3,986,000
	1990			2,484	Ton	500.00	1,242,000
Processed	1991			360	Ton	380.00	137,000
	1990			360	Ton	370.00	133,000
Broccoli Total	1991	1,030	4.60				4,123,000
	1990	552	4.50				1,375,000
Cantaloupes	1991	2,551	11.60	29,592	Ton	188.00	5,563,000
	1990	1,485	10.48	15,563	Ton	254.00	3,953,000
Sweet Corn	1991	142	6.20	880	Ton	200.00	176,000
	1990	573	10.53	6,034	Ton	217.00	1,309,000
Tomatoes							
Fresh	1991	800	25.00	20,000	Ton	350.00	7,000,000
	1990	1,200	20.00	24,000	Ton	340.00	8,160,000
Processed	1991	7,500	28.40	213,000	Ton	54.00	11,502,000
	1990	3,300	27.30	99,090	Ton	55.20	4,973,000
Tomatoes Total	1991	8,300					18,502,000
	1990	4,500					13,133,000
Other a/	1991	2,430					5,506,000
	1990	3,141					7,088,000
TOTAL	1991	14,453					\$ 33,870,000
	1990	10,251					26,858,000 **

a/ Includes Asparagus, chinese cabbage, eggplants, misc. melons, peanuts, processed carrots, processed garlic, snap beans, squash, watermelon.

** Revised

INVENTORIES OF LIVESTOCK AND POULTRY

ITEM	January 1, 1992	January 1, 1991
	NUMBER OF HEAD	NUMBER OF HEAD
Cattle and Calves		
All	210,000	222,000
Dairy Cows 2 Years and Over	86,000	87,000
Cattle and Calves on Feed	3,500	3,900
Other	128,500	128,500
Sheep and Lambs	17,000	19,000
Goats	1,700	1,400
Hogs and Pigs	5,900	5,900
Turkeys	850,000	800,000

LIVESTOCK AND POULTRY

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NO. OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Breeding	1991					\$ 1,344,000
Stock a/	1990					3,415,000
Cattle and Calves	1991	140,843	857,734	Cwt.	\$ 70.38	60,367,000
	1990	141,841	861,619	Cwt.	70.33	60,598,000
Hogs and Pigs	1991	9,346	19,533	Cwt.	50.02	977,000
	1990	8,500	18,275	Cwt.	47.00	859,000
Sheep and Lambs	1991	12,812	14,478	Cwt.	59.00	854,000
	1990	9,522	10,664	Cwt.	66.00	704,000
Turkeys	1991	3,402,617	79,893,447	lb.	0.55	43,941,000
	1990	3,200,315	72,455,131	lb.	.48	34,778,000
Other b/	1991					2,018,000
	1990					3,020,000
TOTAL	1991					\$ 109,501,000
	1990					103,374,000

a/ For All Animals Except Horses.

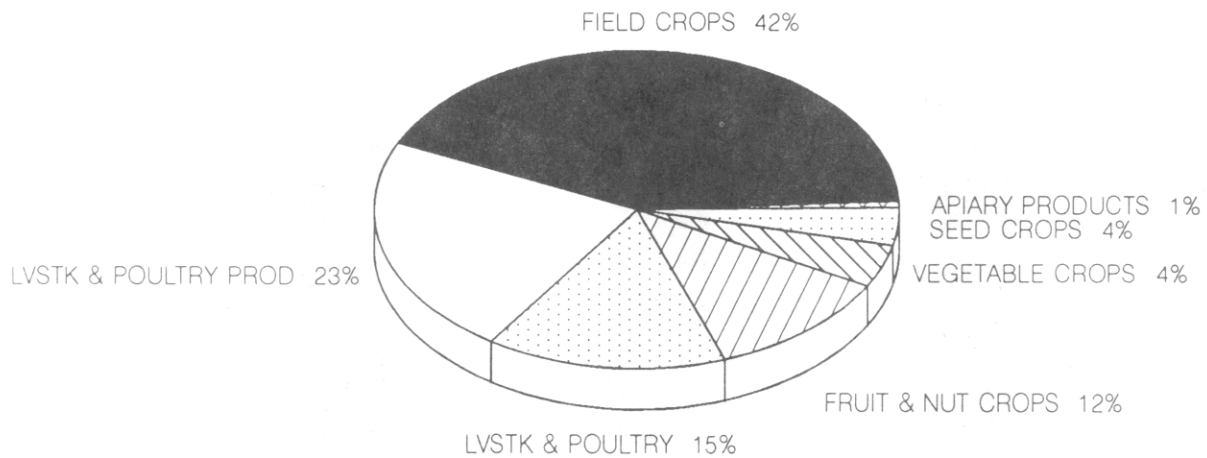
b/ Includes Catfish, Chickens, and Goats.

LIVESTOCK AND POULTRY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
Eggs-Chicken Market	1991	1,988,780	Doz.	\$ 0.80	\$ 1,591,000
	1990	1,492,824	Doz.	0.80	1,194,000
Manure	1991	354,455	Ton	4.32	1,531,000
	1990	302,080	Ton	6.10	1,843,000
Milk					
Milk, Goats	1991	15,417	Cwt.	27.03	417,000
	1990	12,647	Cwt.	25.37	321,000
Market	1991	14,801,506	Cwt.	10.93	161,780,000
	1990	14,415,544	Cwt.	11.72	168,950,000
Manufacturing	1991	75,896	Cwt.	10.44	792,000
	1990	51,651	Cwt.	11.04	570,000
Milk Total	1991	14,892,819			162,989,000
	1990	14,479,842			169,841,000
Wool	1991	133,245	lb.	0.70 *	93,000
	1990	99,028	lb.	0.78 *	77,000
TOTAL	1991				\$ 166,204,000
	1990				172,955,000

* Not including wool incentive payment.

KINGS COUNTY 1991 TOTAL CROP VALUE

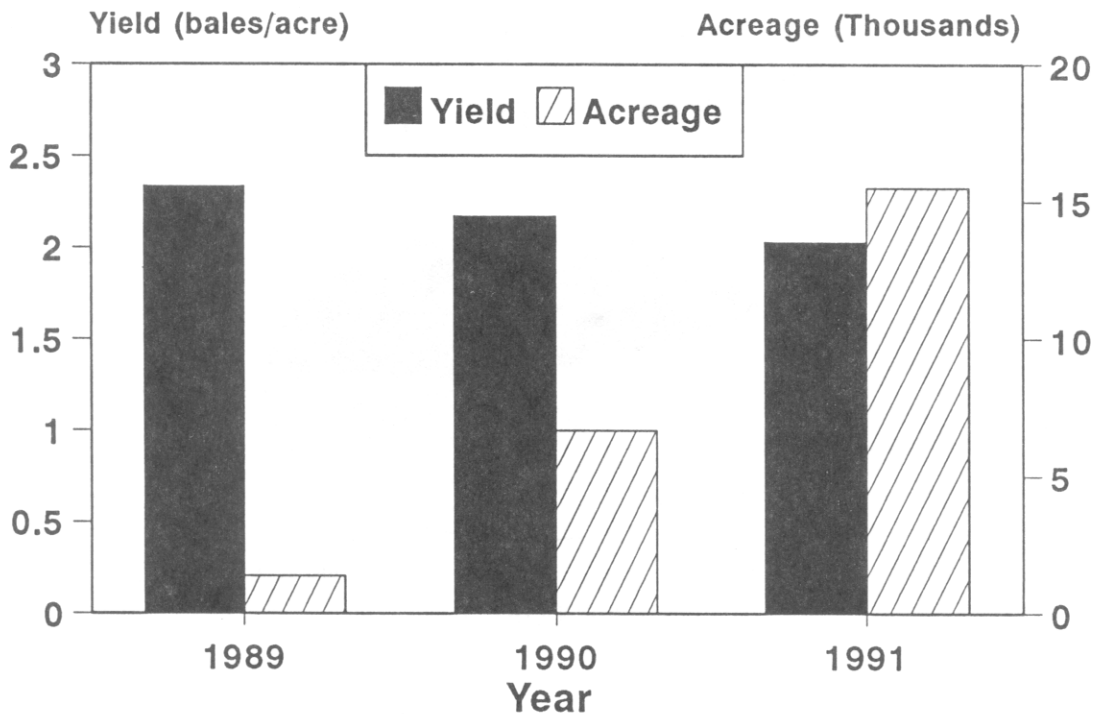


APIARY PRODUCTS

ITEM	YEAR	TOTAL PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
Apiary Products					
Honey	1991	3,442,985	lb.	\$.66	\$ 2,272,000
	1990	1,559,840	lb.	.58	905,000
Beeswax	1991	57,383	lb.	1.00	57,000
	1990	25,997	lb.	.95	25,000
Pollination					
Seed Alfalfa	1991	60,633	Colonies	22.00	1,334,000
	1990	66,048	Colonies	23.00	1,519,000
Tree Fruit a/	1991	7,222	Colonies	30.00	217,000
	1990	9,716	Colonies	28.51	277,000
Cantaloupe	1991	3,827	Colonies	14.00	54,000
	1990	2,228	Colonies	14.00	31,000
TOTAL	1991				\$ 3,934,000
	1990				2,757,000

a/ Almonds and Plums.

PIMA COTTON YIELD & HARVESTED ACRES

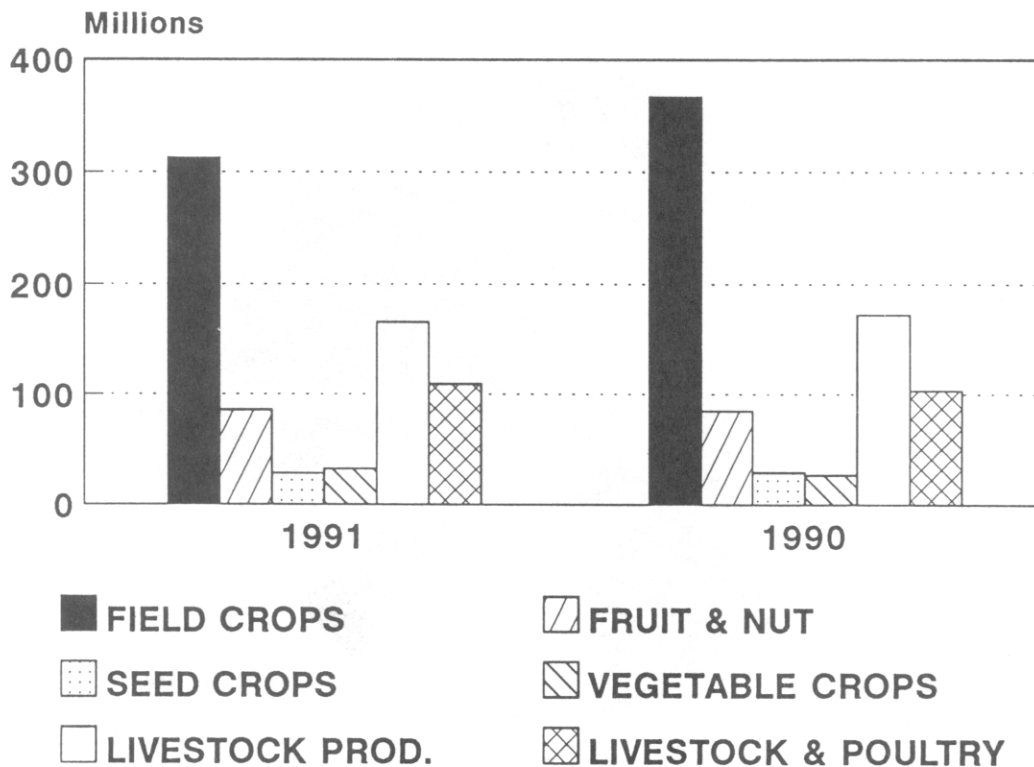


FIVE YEAR COMPARISON OF ACREAGE AND CROP VALUE

	1987	1988	1989	1990	1991
Apiary Products	3,129,000	2,991,000	2,168,000	2,757,000	3,934,000
Field Crops	336,001,000	290,385,000	351,926,000	366,480,000	312,378,000
Acreage	645,314	618,026	632,968	621,762	561,531
Fruit and Nut Crops	53,537,000	75,361,000	67,970,000	84,979,000	85,739,000
Acreage	24,522	23,555	23,555	25,990	28,040
Livestock and Poultry	69,265,000	79,913,000	98,050,000	103,374,000	109,501,000
Livestock and Poultry Products	133,286,000	131,004,000	161,825,000	172,625,000	166,204,000
Seed Crops	19,810,000	24,918,000	31,321,000	29,246,000	28,300,000
Acreage	34,623	32,396	39,862	50,476	38,603
Vegetable Crops	21,351,000	28,293,000	29,823,000	26,858,000	32,260,000
Acreage	12,230	7,986	7,986	10,251	14,453
TOTAL	\$ 636,379,000	\$ 632,865,000	\$ 743,083,000	\$ 786,319,000 *	\$ 738,316,000

* Revised

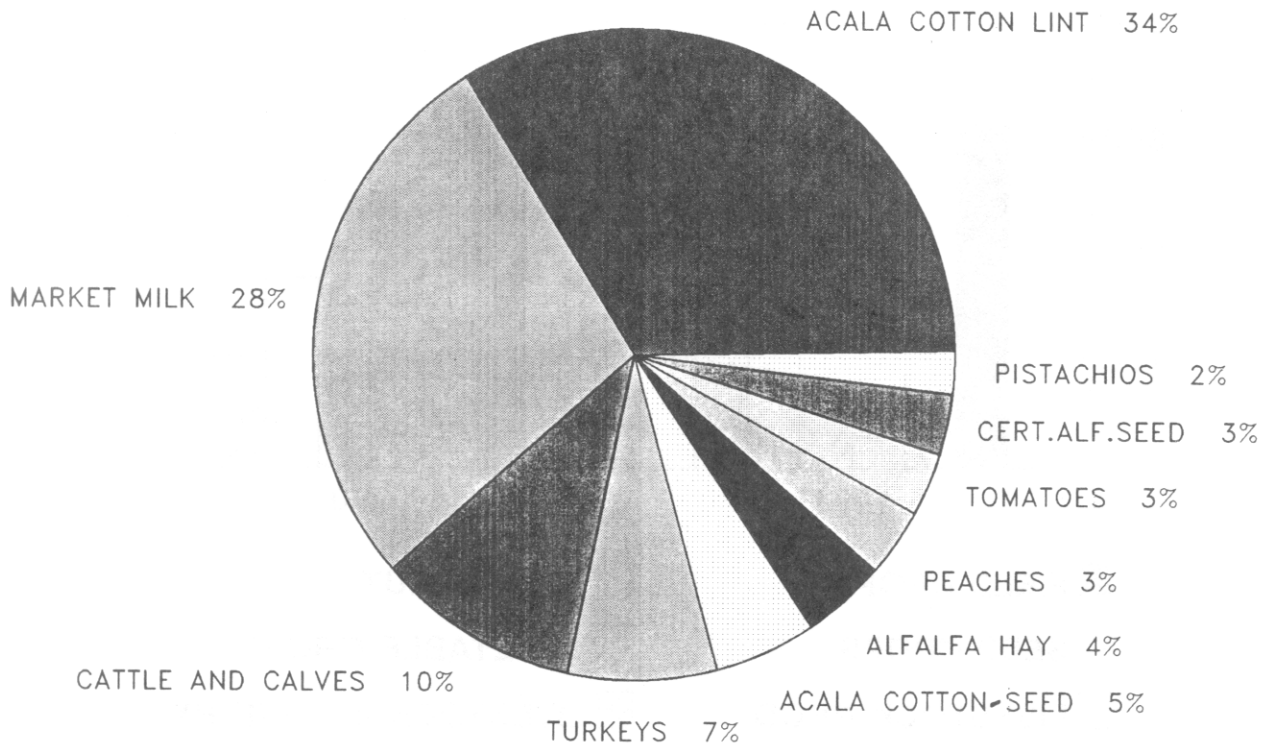
COMPARISON OF CROP VALUES FOR 1991 AND 1990



KINGS COUNTY TEN LEADING CROPS

CROP	1991 RANK	1991 DOLLAR VALUE	1990 RANK	1989 RANK	1988 RANK
Alcala Cotton Lint	1	197,248,000	1	1	1
Milk Total	2	162,989,000	2	2	2
Cattle and Calves	3	60,367,000	3	3	3
Turkey	4	43,941,000	5	5	5
Acala Cotton Seed	5	30,096,000	4	4	4
Hay Alfalfa	6	24,988,000	6	6	7
Peaches Total	7	20,026,000	7	8	5
Tomatoes Total	8	18,502,000	11	11	8
Cert. Alfalfa Seed	9	17,814,000	9	10	10
Pistachios	10	12,287,000	8	15	12

TOP TEN CROPS OF KINGS COUNTY FOR 1991



KINGS COUNTY ANNUAL SUSTAINABLE AGRICULTURAL REPORTING

Pest	Agent/Mechanism	Scope of Program
COUNTY BIOLOGICAL CONTROL		
Puncture Vine <u>Tribulus terrestris</u>	Stem Mining Weevil <u>Microlarinus lypriformis</u> Seed Head Weevil <u>Microlarinus lareynil</u>	Generally distributed Generally distributed
Yellow Starthistle <u>Centaurea solstitialis</u>	Seed Head Weevil <u>Bangasternus orientalis</u>	2 sites
Comstock Mealybug <u>Pseudoccus comstocki</u>	Parasitic Wasps <u>Pseudathycus malimus</u> <u>Allotropia burrelli</u> <u>Allotropia convexifrons</u>	2 sites
Codling Moth <u>Carpocapsa pomonella</u>	Parasitic Wasp <u>Ascogaster quadridentata</u>	1 site
Ash Whitefly <u>Siphoninus phillyreae</u>	Parasitic Wasp <u>Encarsia partenorea</u>	4 sites
<u>COUNTY PEST ERADICATION</u>		
Pink Bollworm <u>Pectinophora gossypiella</u>	Mechanical/Host Free Period	233,825 acres
COUNTY PEST EXCLUSION		
European Corn Borer <u>Ostrinia nubilalis</u>	Railroad Corn Shipments	1,606 inspections
Various	Truck Shipments	1,502 inspections
Gypsy Moth <u>Lymantria dispar</u>	Household Goods Shipments	81 inspections
COUNTY PEST DETECTION		
Various Insect Pests	Various Detection Insect Traps	1,472 traps
ORGANIC FARMING STATISTICS		
Crop	Number of Farms	Estimated Acres
Broccoli	1	5
Cantalope	1	15
Cotton	1	80
Honeydew	1	15
Walnut	1	20
Watermelon	1	7

GENERAL KINGS COUNTY INFORMATION

County Seat	Hanford
County Population (1991)	104,432
Population per Square Mile	66.0
Total Assessed Value (1990)	\$2,477,722,000
Land Area (Square Miles)	1,396
Total Acres	918,790
Number of Farms (1988)	1,187
Land in Farms (Acres - 1988)	808,000
Foreign Ownership (10 parcels - 1990)	7,284 (acres) (value-\$ 2,198,000)
Total Cropland (Acres - 1988)	614,000
Irrigated Cropland (Acres - 1982)	554,114
Total Agricultural Work Force	6,420
Public Ownership of Land (Acres - 1977)	
Federal	30,974 (3.4%)
State	5,016 (.5%)
County & City	9,544 (1.0%)
School & Special Districts	4,426 (.4%)

Agricultural production ranked 12th among California counties and 18th among U.S. counties. (Based on 1989 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, California Aqueduct.

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.

RAINFALL — HANFORD, CALIFORNIA

YEAR	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	TOTAL
1942-43	0.00	0.00	0.00	0.00	0.00	0.43	0.86	2.74	1.14	3.36	0.84	0.00	9.37
1943-44	0.00	0.00	0.00	0.00	0.03	0.21	1.03	1.30	2.80	0.39	0.86	0.28	6.90
1944-45	0.00	0.00	0.00	0.02	0.23	2.25	1.05	0.27	2.69	1.81	0.16	0.10	8.58
1945-46	0.18	0.00	0.00	0.01	0.62	1.15	1.61	0.34	1.52	2.57	0.07	0.41	8.48
1946-47	0.00	0.11	0.00	0.00	1.49	1.10	1.64	0.33	0.49	0.51	0.66	0.33	6.66
1947-48	0.01	0.00	0.00	0.00	0.47	0.29	0.51	0.00	0.43	1.49	1.56	0.55	5.31
1948-49	0.53	0.00	0.00	0.00	0.00	0.03	0.01	0.99	0.51	0.85	1.94	0.07	4.93
1949-50	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.68	1.48	1.13	1.10	0.40	5.39
1950-51	0.07	0.00	0.08	0.00	0.00	0.34	0.63	1.06	1.24	0.76	0.22	1.17	5.57
1951-52	0.02	0.00	0.00	0.00	0.08	1.11	2.39	3.03	0.27	2.18	0.79	0.01	9.88
1952-53	0.02	0.00	0.00	0.17	0.05	0.65	2.96	1.10	0.27	0.34	0.83	0.29	6.68
1953-54	0.08	0.00	0.00	0.00	0.02	1.01	0.09	1.89	0.78	2.21	0.52	0.34	6.94
1954-55	0.00	0.00	0.00	0.00	0.00	0.66	1.61	3.25	1.31	0.43	0.69	0.90	8.85
1955-56	0.00	0.00	0.00	0.00	0.02	0.92	4.67	1.10	0.38	0.10	0.73	0.77	8.69
1956-57	0.07	0.00	0.00	0.00	0.73	0.00	0.15	1.39	1.22	0.05	0.88	0.61	5.10
1957-58	0.00	0.00	0.00	0.00	0.20	1.19	1.41	1.85	2.30	3.93	2.38	0.24	13.50
1958-59	0.00	0.00	0.11	0.11	0.00	0.23	0.16	1.35	1.90	0.11	0.52	0.00	4.49
1959-60	0.00	0.00	0.00	0.11	0.00	0.00	0.17	0.80	1.71	0.61	0.57	0.00	3.97
1960-61	0.00	0.02	0.00	0.53	0.00	2.61	0.03	1.34	0.22	0.67	0.22	0.37	6.01
1961-62	0.00	0.00	0.00	0.00	0.00	1.11	1.28	0.71	4.88	1.06	0.00	0.11	9.15
1962-63	0.00	0.00	0.00	0.01	0.10	0.00	0.19	1.19	1.68	1.37	2.88	0.56	7.98
1963-64	0.17	0.00	0.00	0.33	0.75	1.23	0.31	0.61	0.02	0.94	0.64	0.20	5.20
1964-65	0.00	0.00	0.34	0.00	0.95	1.31	1.44	1.18	0.33	0.33	1.57	0.00	7.45
1965-66	0.00	0.00	0.05	0.07	0.05	2.15	1.97	0.63	0.71	0.10	0.00	0.07	5.80
1966-67	0.06	0.04	0.00	0.29	0.09	1.28	2.57	1.41	0.05	2.42	2.95	0.07	11.23
1967-68	0.23	0.00	0.00	0.31	0.00	1.99	0.50	0.62	0.64	1.00	0.50	0.08	5.87
1968-69	0.00	0.00	0.00	0.00	1.33	0.98	1.64	6.69	4.54	0.79	0.85	0.32	17.14
1969-70	0.21	0.07	0.00	0.15	0.05	0.51	0.70	1.60	1.33	1.42	0.14	0.00	6.18
1970-71	0.00	0.00	0.00	0.00	0.00	2.40	1.23	0.35	0.19	0.23	0.40	1.44	6.24
1971-72	0.00	0.00	0.00	0.04	0.06	0.41	1.87	0.04	0.35	0.00	0.23	0.00	3.00
1972-73	0.00	0.00	0.00	0.24	0.21	2.90	0.65	2.44	2.29	2.20	0.12	0.00	11.05
1973-74	0.00	0.00	0.00	0.00	0.76	0.46	0.94	2.97	0.13	1.75	0.03	0.00	7.04
1974-75	0.00	0.00	0.00	0.00	0.65	0.24	1.40	0.09	2.26	1.24	0.49	0.00	6.37
1975-76	0.00	0.00	0.00	0.98	0.76	0.05	0.22	0.00	2.94	0.19	1.47	0.03	6.64
1976-77	0.01	0.00	0.22	1.47	0.00	1.15	0.96	0.96	0.03	0.43	0.00	0.01	5.24
1977-78	0.07	0.00	0.00	0.00	0.05	0.06	2.85	2.22	5.05	4.12	1.71	0.00	16.13
1978-79	0.00	0.00	0.00	1.10	0.00	0.79	0.50	1.84	1.61	1.16	0.03	0.00	7.03
1979-80	0.00	0.04	0.00	0.08	0.41	0.62	0.41	2.90	2.71	1.28	0.05	0.04	8.54
1980-81	0.00	0.00	0.00	0.00	0.09	0.00	0.21	1.80	0.86	2.10	0.68	0.17	5.91
1981-82	0.00	0.00	0.00	0.00	0.76	1.08	0.29	0.84	0.33	3.52	1.75	0.00	8.57
1982-83	0.45	0.18	0.00	0.64	1.03	2.15	0.71	3.74	2.59	3.39	1.63	0.04	16.55
1983-84	0.00	0.00	0.05	0.82	0.43	1.66	1.22	0.01	0.42	0.27	0.18	0.00	5.06
1984-85	0.00	0.00	0.00	0.01	0.52	1.41	1.66	0.59	0.61	0.68	0.12	0.01	5.61
1985-86	0.00	0.05	0.00	0.00	0.54	2.11	0.56	1.46	2.60	3.40	0.45	0.00	11.17
1986-87	0.00	0.00	0.00	0.15	0.00	0.21	0.77	1.77	2.04	2.02	0.06	0.13	7.15
1987-88	0.05	0.00	0.00	0.00	0.86	0.72	1.74	1.37	0.40	0.93	2.65	0.07	8.79
1988-89	0.06	0.00	0.00	0.00	0.00	1.33	2.29	1.02	2.03	0.85	0.02	0.39	7.99
1989-90	0.00	0.00	0.00	0.67	0.32	0.20	0.53	1.79	1.02	0.30	0.97	0.87	6.67
1990-91	0.00	0.00	0.66	0.00	0.01	0.22	0.09	0.37	1.32	6.67	0.19	0.66	10.19
1991-92	0.36	0.00	0.00	0.11	0.38	0.14	1.32						
AVERAGE	0.05	0.01	0.03	0.17	0.30	0.90	1.09	1.36	1.37	1.39	0.77	0.24	7.64
50 YEAR AVERAGE RAINFALL													7.64