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California Department of Food and Agriculture

Agricultural Commissioners' Crop Reports

Kings County

1995-1999



1995

**AGRICULTURAL CROP REPORT
KINGS COUNTY, CALIFORNIA**

KINGS COUNTY
AGRICULTURAL COMMISSIONER/SEALER

**** PERSONNEL ****

AGRICULTURAL COMMISSIONER/SEALER OF WEIGHTS AND MEASURES

DENNIS F. BRAY

DEPUTY AGRICULTURAL COMMISSIONER/SEALERS

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Cover photo by Buzz Felleke



**KINGS COUNTY DEPARTMENT OF
AGRICULTURAL COMMISSIONER
SEALER OF WEIGHTS AND MEASURES**

Dennis F. Bray
Agricultural Commissioner
Sealer Of Weights And Measures

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Ann M. Veneman, Secretary
California Department of Food and Agriculture
and
The Honorable Board of Supervisors
County of Kings

April 1, 1996

It is my pleasure to submit the 1995 Kings County Crop Report. This annual publication presents statistical information on the acreage, yield and gross value of Kings County agricultural products in accordance with Section 2279 of the California Food and Agricultural Code.

The 1995 total gross value of Kings County's major industry was \$836,899,000. This represents a 2.98 percent increase from the 1994 gross production values.

Adverse spring weather caused a decrease in production of many crop categories. However, favorable market prices allowed increases in some 1995 crop values compared to 1994. Fruit and nut crops increased \$20,790,000 (+24.6%) and field crops increased \$10,757,000 (+3.2%) respectfully.

Also showing substantial increases were livestock and poultry products at \$8,417,000 (+21.6%) and apiary products at \$520,000 (+22.8%).

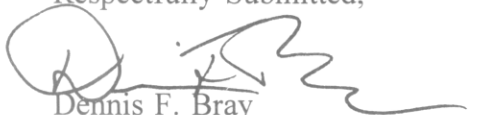
Reduced acreage and poor market values contributed to the decrease of vegetable crops at -\$11,442,000 (-26.0%) and livestock and poultry at -\$6,781,000 (-6.4%).

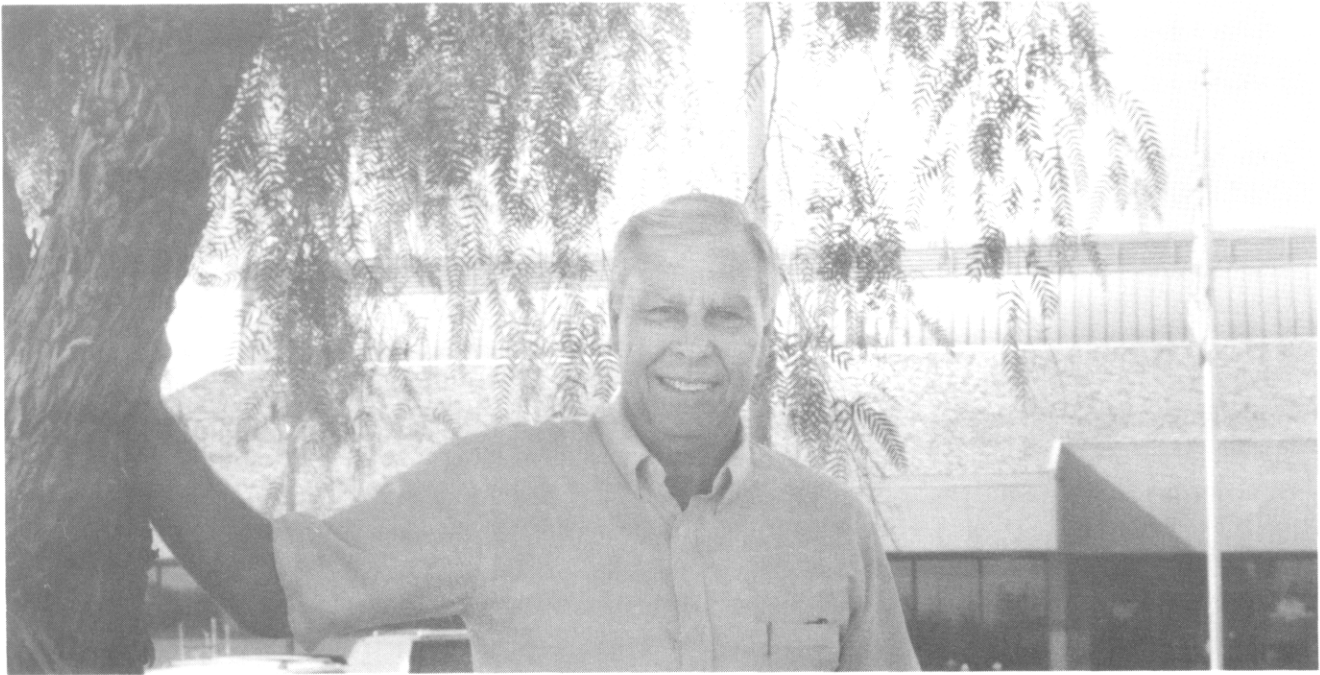
Cotton remains the top crop overall in Kings County with a total 1995 value of \$281,482,000.

It must be emphasized that the values in this report are gross values only and in no manner reflect net income or loss to producers.

My thanks to Agricultural and Standards Inspector III Buzz Felleke and Deputy Commissioner-Sealer Tim Niswander, as well as all the department staff for the compilation and preparation of this report. Most of all, I wish to express my appreciation for the cooperation of all agricultural producers, contributing organizations, and those individuals who provided necessary information for this report.

Respectfully Submitted,


Dennis F. Bray
Agricultural Commissioner
Sealer of Weights and Measures



DEDICATION

M. HUGH HANDLEY

The 1995 Kings County Agricultural Crop Report is dedicated to M. Hugh Handley, who served Kings County as Agricultural Commissioner and Sealer of Weights and Measures for nearly 23 years. Among Mr. Handley's many accomplishments during his service to Kings County was the creation of a one-stop service center for the agricultural community. Several agricultural agencies are now located in the same facility with the Agricultural Commissioner's Department, as seen in the background of the above photo. Also, Hugh Handley was instrumental in the state by bringing the Ag Commissioner's department into the 21st century with computerization. Prior to Kings County, he was employed in the agricultural departments of both Colusa and Santa Clara counties, ending his career with over 35 years of service. The management and staff wish Hugh and his family all the best in his well deserved retirement.

ANNUAL CROP REPORT FOR YEAR 1995

KINGS COUNTY
AGRICULTURAL COMMISSIONER/SEALER

DENNIS F. BRAY
AGRICULTURAL COMMISSIONER
SEALER OF WEIGHTS AND MEASURES

KINGS COUNTY
BOARD OF SUPERVISORS

JOE A. NEVES	DISTRICT I
JOE HAMMOND	DISTRICT II
LEE M. LOCKHART	DISTRICT III
TONY BARBA	DISTRICT IV
ABEL J. MEIRELLES	DISTRICT V

COUNTY ADMINISTRATIVE OFFICER
LARRY SPIKES

TABLE OF CONTENTS

	PAGE
FIELD CROPS	1
SEED CROPS	2
FRUIT AND NUT CROPS	3
VEGETABLE CROPS	5
1995 PERCENT OF TOTAL VALUE	5
INVENTORIES OF LIVESTOCK AND POULTRY	6
LIVESTOCK AND POULTRY	6
LIVESTOCK AND POULTRY PRODUCTS	7
MILK PRODUCTION	7
APIARY PRODUCTS	8
NUMBER OF DAIRIES AND MILK PRODUCTION	8
5 YEAR COMPARISON OF ACREAGE & CROP VALUE	9
COMPARISON OF CROP VALUES FOR 1994 & 1995	9
KINGS COUNTY'S TEN LEADING COMMODITIES	10
SUSTAINABLE AGRICULTURAL REPORTING	11
GENERAL INFORMATION	12
RAINFALL DATA	BACK COVER

DAIRIES

Dairies are more deeply rooted in agricultural history than many of the cultivated crops. Archaeologists have found evidence indicating that cattle were first domesticated no later than 9000 B.C. The domestication and keeping of milk-producing herds of animals spread from southwest Asia to other parts of the world. At first the same animals were used for work, meat, and milk production. Early man found that goats and sheep produced enough milk for his family. As urban centers developed, cows and goats were kept in large numbers to produce milk in quantity, with the cow becoming established as a volume producer.

Cows were transported to the New World by Columbus on his second voyage in 1493. They were also brought to the Jamestown Colony in 1611 and to the Plymouth Colony in 1624. The production, processing, and distribution of milk and dairy products were mainly from family farm operations until about the middle of the 19th century.

The five major breeds of dairy cows and their origin are: the Ayrshire from Scotland; the Brown Swiss from Switzerland; the Guernsey from Guernsey Island in the English Channel; the Jersey from Jersey Island also in the English Channel; and the most popular, the Holstein-Friesian from the northern part of the Netherlands (Friesland).

The most numerous breed of dairy cattle in the United States is the Holstein which can be easily recognized by their large black and white markings as seen on the cover of this crop report. The earliest Dutch settlers brought Holsteins to America, but the main importations were made in the latter half of the 19th century. No Holsteins have been imported into the United States from Europe since 1905.

Dairy farming has been a major influence in this area of California long before the County of Kings was established. Numerous dairies were started in this area in the latter 1800's. Included in Kings County's rich agricultural history is a world record title for milk production from one cow, a Holstein. Maciel #289 lived for 20 years and produced 465,224 pounds of milk, a record that no other cow has yet broken.

Kings County ranks sixth in California in terms of value of milk and dairy products and is among the top ten dairy counties in the nation. Dairying ranks second in value to cotton in the Kings County agricultural economy. The average herd size in the county is 651 cows per dairy. A mature Holstein dairy cow can often weigh 1,500 pounds and sometimes weigh as much as 2,000 pounds. The average annual production from a Holstein cow is 19,600 pounds of milk.

Kings County shall remain a popular area for dairy farming because of the mild weather, an abundance of high quality feed, a good water supply, and its central location between the major urban regions of Los Angeles and the San Francisco Bay area. Coupled with the resilient character of the dairymen, Kings County will continue to meet the challenges and needs of future milk production.

FIELD CROPS

CROP	YEAR	HARVESTED PRODUCTION		VALUE			
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Barley	1995	30,157	1.63	49,156	Ton	112.00	5,505,000
	1994	27,146	1.64	44,519	Ton	108.48	4,830,000
Beans Dry a/	1995	3,454	1.15	3,972	Ton	802.00	3,186,000
	1994	2,345	1.15	2,697	Ton	563.00	1,518,000
Corn Silage	1995	16,401	23.60	387,064	Ton	18.02	6,975,000
	1994	15,847	21.42	339,443	Ton	20.24	6,870,000
Cotton							
Acala-Lint b/	1995	257,431	1.88	483,970	495 lb.	412.00	199,396,000
	1994	240,660	2.33	560,738	495 lb.	373.98	209,705,000
Acala-Seed	1995			262,015	Ton	180.00	47,163,000
	1994			231,362	Ton	150.00	34,704,000
Cotton Pima-Lint b/	1995	29,199	1.78	51,974	495 lb.	581.00	30,197,000
	1994	28,735	1.62	46,551	495 lb.	474.29	22,079,000
Pima-Seed	1995			21,381	Ton	170.00	3,635,000
	1994			19,248	Ton	148.00	2,849,000
Hay							
Alfalfa	1995	25,880	6.99	180,901	Ton	98.00	17,728,000
	1994	22,650	8.22	186,183	Ton	108.15	20,136,000
Other c/	1995	2,083	2.48	5,166	Ton	59.00	305,000
	1994	1,320	3.00	3,960	Ton	78.00	309,000
Pasture							
Irrigated	1995	12,000			Acre	107.00	1,284,000
	1994	10,000			Acre	105.00	1,050,000
Range	1995	100,000			Acre	2.25	225,000
	1994	90,000			Acre	2.00	180,000
Alfalfa	1995	27,080			Acre	23.00	623,000
Stubble	1994	30,541			Acre	20.00	611,000
Safflower	1995	36,185	1.21	43,784	Ton	300.00	13,135,000
	1994	32,213	1.41	45,420	Ton	310.96	14,124,000
Sugar Beets	1995	2,115	30.75	65,036	Ton	34.00	2,211,000
	1994	3,682	25.26	93,007	Ton	32.63	3,035,000

FIELD CROPS

CROP	YEAR	HARVESTED PRODUCTION		VALUE			
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Wheat	1995	42,937	2.58	110,777	Ton	145.33	16,099,000
	1994	37,928	2.76	104,681	Ton	128.79	13,482,000
Other d/	1995	17,676					2,451,000
	1994	14,994					3,879,000
TOTAL	1995	602,598					350,118,000
	1994	558,061					339,361,000

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, screening, straw, sudangrass, wheat silage, and winter forage.

SEED CROPS

CROP	YEAR	HARVESTED PRODUCTION		VALUE			
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Alfalfa							
Certified	1995	11,091	624	6,920,784	lb.	1.41	9,758,000
	1994	6,571	744	4,888,824	lb.	1.26	6,160,000
Non-certified	1995	1,600	624	998,400	lb.	1.35	1,348,000
	1994	1,000	744	744,000	lb.	1.10	818,000
Total	1995	12,691		7,919,184	lb.		11,106,000
	1994	7,571		5,632,824	lb.		6,978,000
Barley, Certified	1995	1,000	4400	4,400,000	lb.	0.07	308,000
	1994	1,903	5000	9,515,000	lb.	0.06	571,000
Cotton, Certified a/	1995	4,783		4,641	Ton	235.00	1,091,000
	1994	3,603		2,162	Ton	248.00	536,000
Wheat, Certified	1995	4,788	4,458	21,344,904	lb.	0.08	1,708,000
	1994	5,676	5,780	32,807,280	lb.	0.07	2,297,000
Vegetable/Flowers	1995	673					2,580,000
	1994	898					3,431,000
TOTAL	1995	23,935					16,793,000
	1994	19,651					13,813,000

a/ Not included in total acreage for "Seed Crop"

b/ Broccoli, cauliflower, chinese cabbage, flowers, lettuce, onion, radish, and turnip.

FRUIT & NUT CROPS

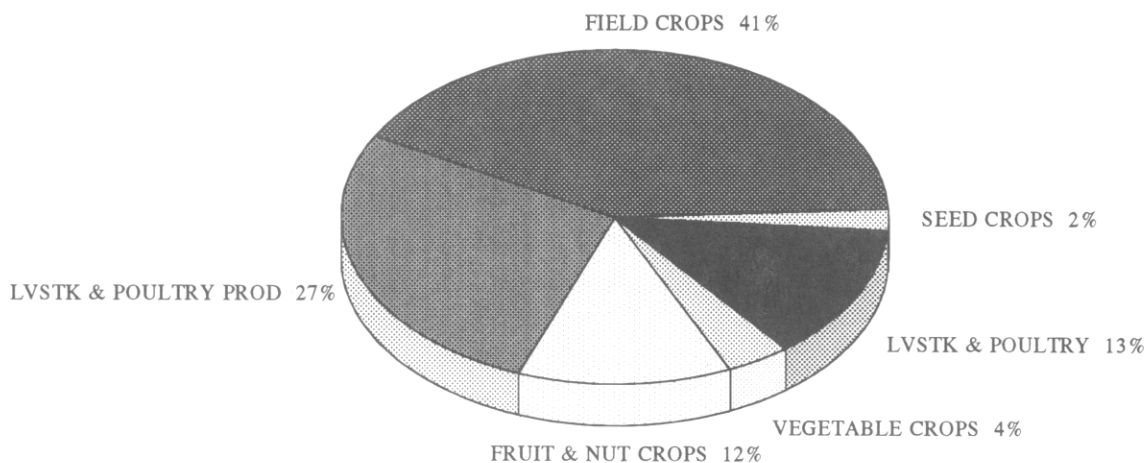
CROP	YEAR	BEARING		PRODUCTION		VALUE	
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Almonds	1995	2,070	0.63	1,304	Ton	4,376.70	5,707,000
	1994	1,747	0.87	1,520	Ton	2,507.00	3,810,000
Almond Hulls	1995			689	Ton	90.00	62,000
	1994			1,098	Ton	71.50	79,000
Apples							
Fresh	1995			4,064	Ton	563.00	2,288,000
	1994			4,628	Ton	566.59	2,622,000
Processed	1995			2,285	Ton	160.00	366,000
	1994			1,984	Ton	70.00	139,000
Apples Total	1995	541	11.74	6,349	Ton		2,655,000
	1994	502	11.99	6,612	Ton		2,761,000
Apricots							
Fresh	1995			1,294	Ton	1,505.00	1,947,000
	1994			920	Ton	956.00	880,000
Processed	1995			228	Ton	278.00	63,000
	1994			307	Ton	287.00	88,000
Apricots Total	1995	375	4.06	1,522	Ton		2,010,000
	1994	251	4.88	1,227	Ton		968,000
Firewood a/							
	1995			520	Cord	110.00	57,000
	1994			710	Cord	100.00	71,000
Grapes							
Raisin Varieties							
Fresh	1995			1,800	Ton	837.00	1,507,000
				5,600	Ton	930.00	5,208,000
Crushed				8,600	Ton	160.00	1,376,000
Canned				2,238	Ton	238.00	533,000
Total		2,079		18,238			8,624,000
Grapes							
Raisin Varieties							
Fresh	1994			1,500	Ton	730.00	1,095,000
				5,800	Ton	940.00	5,452,000
Crushed				8,500	Ton	175.00	1,488,000
Canned				2,284	Ton	238.00	544,000
Total		1,982		18,084			8,579,000
Table Varieties							
	1995	617	11.89	7,336	Ton	867.77	6,366,000
	1994	634	9.16	5,807	Ton	852.58	4,951,000

VEGETABLE CROPS

CROP	YEAR	HARVESTED PRODUCTION		UNIT	VALUE		
		ACREAGE	PER ACRE		TOTAL	PER UNIT	TOTAL
Broccoli							
Fresh	1995			293	Ton	612.00	179,000
	1994			1,024	Ton	660.00	676,000
Processed	1995			5,582	Ton	370.00	2,065,000
	1994			1,247	Ton	367.00	458,000
Broccoli Total							
	1995	1,175	5.00				2,244,000
	1994	696	5.20				1,134,000
Cantaloupes							
	1995	1,367	12.06	16,486	Ton	203.00	3,347,000
	1994	1,345	11.56	15,548	Ton	256.00	3,980,000
Sweet Corn							
	1995	654	7.50	4,905	Ton	374.00	1,834,000
	1994	612	6.88	4,211	Ton	278.00	1,171,000
Tomatoes							
Fresh	1995	1,415	13.66	19,329	Ton	337.00	6,514,000
	1994	1,529	20.00	30,580	Ton	347.00	10,611,000
Processed	1995	6,100	31.85	194,285	Ton	54.00	10,491,000
	1994	11,500	30.40	349,600	Ton	50.00	17,480,000
Tomatoes Total							
	1995	7,515		213,614			17,005,000
	1994	13,029		380,180			28,091,000
Other a/							
	1995	2,781					8,214,000
	1994	5,322					9,710,000
TOTAL							
	1995	13,492					32,644,000
	1994	21,004					44,086,000

a/ Includes asparagus, garlic, eggplant, lettuce, misc. melons, misc. vegetable, peanuts, processed carrots, processed garlic, squash and watermelon.

1995 PERCENT OF TOTAL VALUE



INVENTORIES OF LIVESTOCK & POULTRY

ITEM	January 1, 1996 NUMBER OF HEAD	January 1, 1995 NUMBER OF HEAD
Cattle and Calves		
All	187,000	167,000
Dairy Cows 2 Years and Over	93,000	83,000
Cattle and Calves on Feed	3,500	3,000
Other	130,000	128,000
Sheep and Lambs		
Sheep and Lambs	10,720	9,200
Goats	2,400	3,000
Hogs and Pigs	8,500	7,300
Turkeys	650,000	603,000

LIVESTOCK & POULTRY

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NUMBER OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Breeding	1995					1,454,000
Stock a/	1994					1,420,000
Cattle and Calves	1995	162,820	976,923	Cwt.	52.00	50,800,000
	1994	148,779	906,064	Cwt.	71.00	64,331,000
Hogs and Pigs	1995	17,015	37,943	Cwt.	41.00	1,556,000
	1994	13,300	30,590	Cwt.	40.00	1,224,000
Sheep and Lambs	1995	12,720	14,425	Cwt.	80.00	1,154,000
	1994	12,479	15,724	Cwt.	55.00	865,000
Turkeys	1995	1,919,054	41,470,757	lb.	0.62	25,712,000
	1994	1,887,136	41,913,290	lb.	0.64	26,825,000
Other b/	1995					18,523,000
	1994					11,315,000
TOTAL	1995					99,199,000
	1994					105,980,000 *

a/ For All animals except horses.

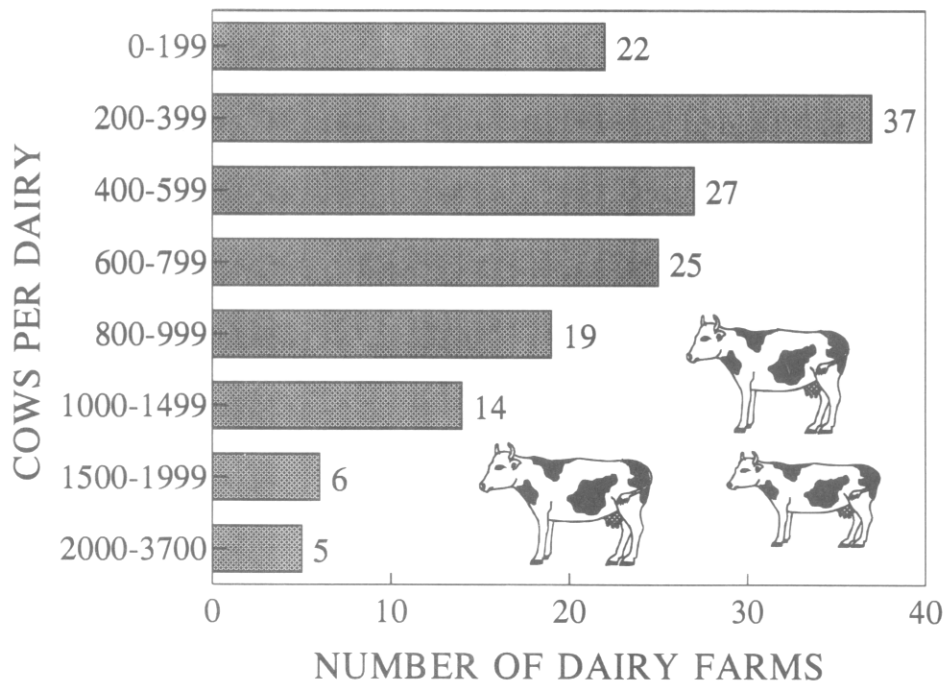
b/ Includes Catfish, chickens, and goats.

* Revised

LIVESTOCK & POULTRY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	PER UNIT	TOTAL
Eggs-Chicken Market	1995	2,302,700	Doz.	0.86	1,980,000
	1994	2,526,540	Doz.	0.89	2,249,000
Manure	1995	347,113	Ton	4.55	1,579,000
	1994	376,430	Ton	5.10	1,920,000
Milk					
Milk, Goats	1995	16,649	Cwt.	26.64	444,000
	1994	16,736	Cwt.	26.85	449,000
Market	1995	19,710,894	Cwt.	11.47	226,084,000
	1994	19,190,438	Cwt.	11.30	216,852,000
Manufacturing	1995	91,010	Cwt.	10.41	947,000
	1994	115,258	Cwt.	10.46	1,206,000
Milk Total	1995	19,818,553			227,475,000
	1994	19,322,432			218,507,000
Wool	1995	132,288	lb.	1.34	177,000
	1994	129,781	lb.	0.91	118,000
TOTAL	1995				231,211,000
	1994				222,794,000

KINGS COUNTY - 1995 DISTRIBUTION OF DAIRIES BY SIZE

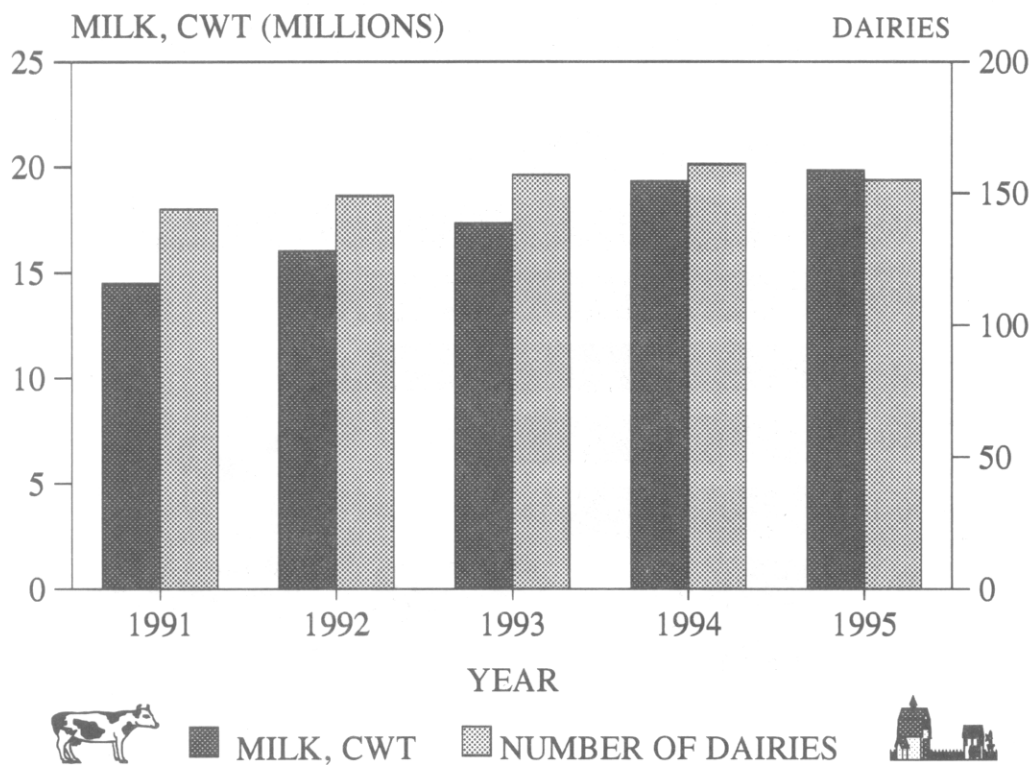


APIARY PRODUCTS

ITEM	YEAR	TOTAL PRODUCTION	UNIT	PER UNIT	TOTAL
Apiary Products					
Honey	1995	2,478,845	lb.	0.60	1,487,000
	1994	2,888,000	lb.	0.50	1,444,000
Beeswax	1995	41,314	lb.	2.00	83,000
	1994	48,133	lb.	1.25	60,000
Pollination					
Seed Alfalfa	1995	38,073	Colonies	23.00	876,000
	1994	22,713	Colonies	20.00	454,000
Tree Fruit a/	1995	9,530	Colonies	34.00	324,000
	1994	8,546	Colonies	35.00	299,000
Cantaloupe	1995	2,185	Colonies	14.00	31,000
	1994	2,017	Colonies	12.00	24,000
TOTAL	1995				2,801,000
	1994				2,281,000

a/ Almonds, apples and plums.

NUMBER OF DAIRIES AND MILK PRODUCTION

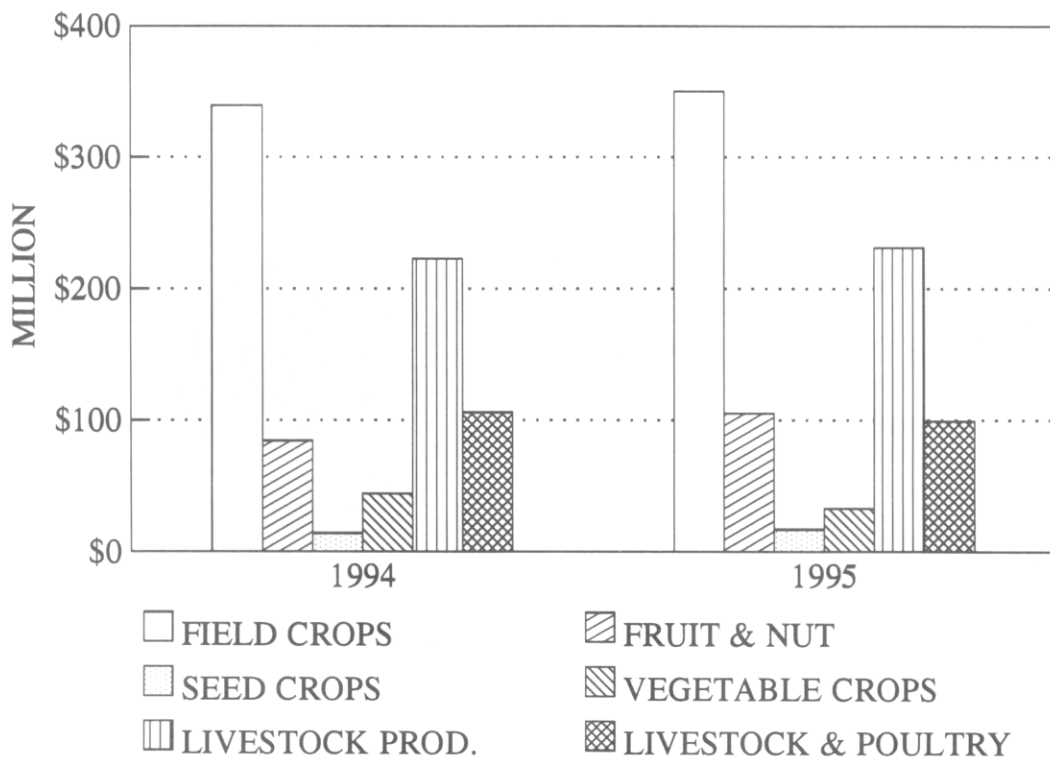


FIVE YEAR COMPARISON OF ACREAGE & CROP VALUES

	1991	1992	1993	1994	1995
Apiary Products	3,934,000	4,230,000	1,992,000	2,281,000	2,801,000
Field Crops	312,378,000	356,410,000	362,811,000	339,361,000	350,118,000
Acreage	561,531	554,610	578,201	558,061	602,598
Fruit and Nut Crops	85,739,000	78,734,000	112,541,000	84,343,000	105,133,000
Acreage	28,040	27,277	27,995	27,586	29,631
Livestock and Poultry	109,501,000	97,399,000	106,206,000	105,980,000	99,199,000
Livestock and Poultry Products	166,204,000	185,802,000	198,540,000	222,794,000	231,211,000
Seed Crops	28,300,000	23,843,000	12,892,000	13,813,000	16,793,000
Acreage	38,603	32,270	19,787	19,651	23,935
Vegetable Crops	32,260,000	29,439,000	44,231,000	44,086,000	32,644,000
Acreage	14,453	9,956	18,743	21,004	13,492
TOTAL	\$ 738,316,000 *	\$ 775,857,000	\$ 837,298,000	\$ 812,658,000	\$ 836,899,000

* Revised

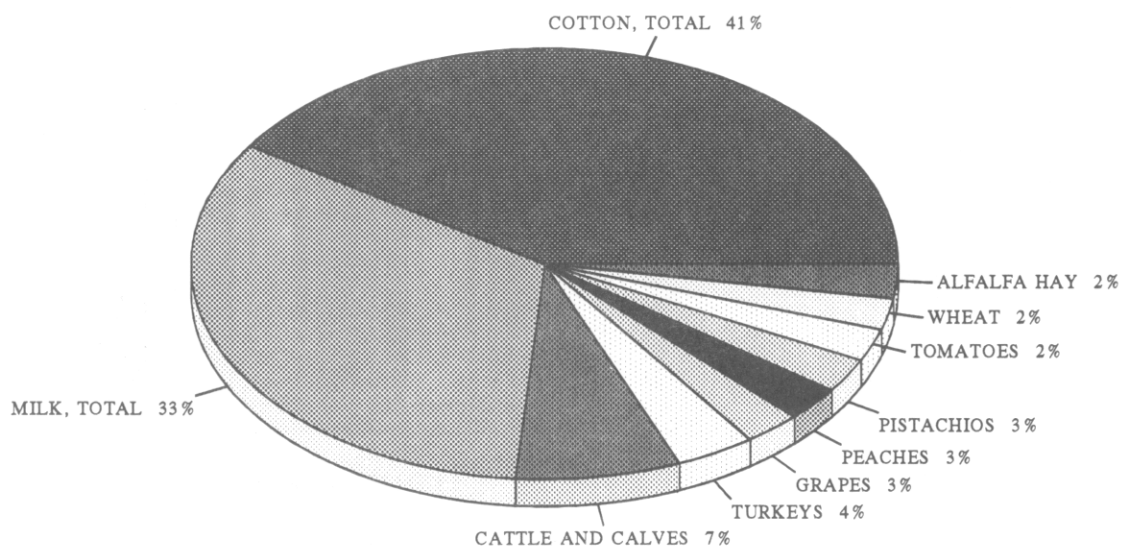
1994 AND 1995 PRODUCTION VALUE COMPARISONS



KINGS COUNTY TEN LEADING CROPS

CROP	1995 RANK	1995 DOLLAR VALUE	1994 RANK	1993 RANK	1992 RANK
Cotton, Total	1	281,482,000	1	1	1
Milk, Total	2	227,475,000	2	2	2
Cattle and Calves	3	50,800,000	3	3	3
Turkeys	4	25,712,000	5	4	5
Grapes Total	5	18,428,000	6	10	11
Peaches Total	6	18,148,000	10	8	6
Pistachios	7	18,048,000	9	7	10
Alfalfa Hay	8	17,728,000	7	6	4
Tomatoes	9	17,005,000	4	5	8
Wheat	10	16,099,000	11	14	13

TOP TEN COMMODITIES OF KINGS COUNTY FOR 1995



KINGS COUNTY 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>	Generally distributed
	Seed Head Weevil <u>Microlarinus lareynil</u>	Generally distributed
Yellow Starthistle <u>Centaurea solstitialis</u>	Seed Head Weevil <u>Bangasternus orientalis</u>	2 sites
	Gall Fly <u>Urophora sirunaseva</u>	1 site
Ash Whitefly <u>Siphoninus phillyreae</u>	Parasitic Wasp <u>Encarsia partenorea</u>	Generally distributed
COUNTY PEST ERADICATION		
Pink Bollworm <u>Pectinophora gossypiella</u>	Mechanical/Host Free Period	285,630 acres
Alligatorweed <u>Alternanthera philoxeroides</u>	Chemical/Fumigation	1 plant
COUNTY PEST DETECTION		
Various Insect Pests	Various Detection Insect Traps	908 traps
COUNTY PEST EXCLUSION		
European Corn Borer <u>Ostrinia nubilalis</u>	Railroad Corn Shipments	1,028 inspections
Various	Truck Shipments	7,734 inspections
Gypsy Moth <u>Lymantria dispar</u>	Household Goods Shipments	29 inspections
Crops	Activity	Scope of Program
Export Commodities	Origin Certification	957 issued
Export Seed	Field Inspections	145 sites
		24,012 acres

GENERAL KINGS COUNTY INFORMATION

County Seat	Hanford
County Population (1995)	116,312
Population per Square Mile	83.3
Total Assessed Value (1995)	\$3,817,204,805
Land Area (Square Miles)	1,396
Total Acres	893,440
Total Harvested crop acreage (1995)	666,875
Foreign Ownership (1993)	7,243 (acres)
Total Farmland (Acres - 1995)	755,826
Public Ownership of Land (Acres - 1990)	
Federal	20,912.69
State	1,684.99
County	5,556.25
Local Agencies	9,460.34

Agricultural production ranked 12th among California counties and 16th among U.S. counties.(Based on 1992 total value.)

Railroads - Santa Fe, Southern Pacific & San Joaquin Railroad.

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, CA

YEAR	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	TOTAL
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	1.40	3.32	0.85	0.10	0.00	7.98
1992-93	0.00	0.01	0.00	0.00	0.58	0.00	2.62	3.88	2.48	2.16	0.07	0.08	11.88
1993-94	0.26	0.00	0.00	0.24	0.24	0.68	0.66	1.45	1.02	0.70	0.69	0.00	5.94
1994-95	0.00	0.00	0.00	1.06	0.35	1.54	0.33	4.70	0.51	4.77	0.65	0.87	14.78
1995-96	0.00	0.00	0.00	0.00	0.00	0.00	1.59						
AVERAGE	0.05	0.01	0.03	0.19	0.31	0.86	1.10	1.50	1.36	1.40	0.76	0.25	7.79

50 YEAR AVERAGE RAINFALL

7.79

1996 AGRICULTURAL CROP REPORT



Kings County, California

PEACHES

One of the most popular fruits grown throughout the world was at one time called the "Persian Apple", hence its scientific name, *Prunus persica*. Today we call it the Peach. The Chinese have recorded the cultivation of peaches back to 1000 B.C. Contrary to the popular belief that peaches originated in Persia (Iran), they may have been carried to Persia by caravan from China. However, once established in Persia the cultivation of peaches quickly spread to Europe. In the 16th century peaches were brought to the New World to the area which is now Mexico. Soon thereafter they were introduced on the east coast of the United States by the founding colonies.

Here in California, cultivation of the peach was introduced by Spanish missionaries in the 18th century. The Russians reportedly brought peach seeds and trees to San Francisco and planted them near Fort Ross in the early 1800s. As the industry developed following the Gold Rush, improvements were made to cultural practices including a new practice of planting orchards to selected varieties.

Farmland in Kings County was filled with prospering orchards between the towns of Hanford and Lemoore during the years of 1895 through 1925. During that era, the community of Armona, just west of Hanford, became the "Peach Growing Capital" of California. Annually, thousands of dollars worth of fresh, canned, and dried peaches were shipped from here to all parts of the country. In fact, the peaches shipped from Kings County were of such good quality, especially those from the Armona area, they became famous in the markets of Chicago and New York. Most of the larger fruit packing, canning, and shipping companies in California had facilities in Armona. During the peak of the harvest season the packing houses in the county provided employment to hundreds of people. Some of the old packing houses are still standing today and are being utilized by various other businesses.

The two basic types of peaches grown in Kings County are the Freestone and the Clingstone. These names are descriptive of how the flesh adheres to the pit or seed within the fruit. With the Freestone varieties the flesh will come free of the pit when you split open the peach. Practically all of the Freestone varieties are packed for fresh market consumption or are processed for freezing. By contrast, the Clingstone or Cling, as commonly referred, varieties adhere to the pit and require some sort of mechanical separation. The Cling varieties tend to be slightly smaller and more yellow in color at maturity. Cling varieties are used primarily for canning and pickling. The harvest season for peaches grown in Kings County begins about the first week in May and ends around the middle of October.

With today's technology, more than the fruit is consumed. For years peach tree limbs and tree trunks have been used for firewood to heat homes. Also, cull peaches are fed to cows as a feed source supplement (talk about peaches and cream). Peach growers for years have used their cull fruit or pits for dust control on roadways on the farm. Peach pits from canneries are dried and ground-up for use in livestock feed. Also, pits are being used in the manufacture of barbecue briquettes as a source of charcoal.

International markets are expanding and new varieties are being propagated to bolster the marketing of the *Prunus persica*. Kings County shall remain one of the main suppliers of peaches in the San Joaquin Valley as the industry learns from the past and plans for the future.



KINGS COUNTY DEPARTMENT OF AGRICULTURAL COMMISSIONER SEALER OF WEIGHTS AND MEASURES

Dennis F. Bray
Agricultural Commissioner
Sealer Of Weights And Measures

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Ann M. Veneman, Secretary
California Department of Food and Agriculture
and
The Honorable Board of Supervisors
County of Kings

April 1997

It is my pleasure to submit the 1996 Kings County Crop Report. This annual publication presents statistical information on the acreage, yield and gross value of Kings County agricultural products in accordance with Section 2279 of the California Food and Agricultural Code.

The 1996 total gross value of Kings County's major industry was \$883,887,000, an all-time county high. This represents a 5.49 percent increase from the 1995 gross production values.

Adverse weather conditions throughout the year caused a decline in the yield and quality of some of the major crop categories, especially cotton. However, favorable market prices allowed an increase in values of most other 1996 crops. Livestock and Poultry Products increased \$51,848,000 (+22.4%) and Livestock and Poultry increased \$13,614,000 (+13.7%).

Also showing substantial increases were Seed Crops at \$3,768,000 (+22.4%), Vegetable Crops at \$2,920,000 (+8.9%) and Apiary Products at \$975,000 (+34.8%).

Decreased acreage, unfavorable weather and reduced market values contributed to the decrease of Field Crops at -\$19,972,000 (-5.7%) and Fruit & Nut Crops at -\$7,165,000 (-6.8%).

Milk surpassed cotton as the county's top commodity for the 1996 season. Contributing to this was an increase in total milk production of nearly 4.6% and increases in value coupled with a reduction in cotton market values and acreage planted.

It must be emphasized that the values in this report are gross values only and in no manner reflect the net income or loss to producers.

My thanks to Buzz Felleke, Agricultural and Standards Inspector III, and Tim Niswander, Deputy Commissioner-Sealer, as well as all the department staff for the compilation and preparation of this report. Most of all, I wish to express my appreciation for the cooperation of all agricultural producers, contributing organizations and those individuals who provided necessary information for this report.

Respectfully Submitted,


Dennis F. Bray
Agricultural Commissioner
Sealer of Weights and Measures

KINGS COUNTY

AGRICULTURAL COMMISSIONER/SEALER

** PERSONNEL **

AGRICULTURAL COMMISSIONER/SEALER OF WEIGHTS AND MEASURES

DENNIS F. BRAY

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CLERICAL

Linda Green	Diane O'Daniel	Linda Lavars	Juanita Rodriguez
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"Farming looks mighty easy when your plow is a pencil and you're a thousand miles from a cornfield." Dwight David Eisenhower

ANNUAL CROP REPORT FOR YEAR 1996

KINGS COUNTY AGRICULTURAL COMMISSIONER/SEALER

DENNIS F. BRAY
AGRICULTURAL COMMISSIONER
SEALER OF WEIGHTS AND MEASURES

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COUNTY ADMINISTRATIVE OFFICER
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TABLE OF CONTENTS

FIELD CROPS	1
SEED CROPS	2
FRUIT AND NUT CROPS	3
VEGETABLE CROPS	5
1996 PERCENT OF TOTAL VALUE	5
INVENTORIES OF LIVESTOCK AND POULTRY	6
LIVESTOCK AND POULTRY	6
LIVESTOCK AND POULTRY PRODUCTS	7
CLINGSTONE PEACH PRODUCTION TABLE	7
APIARY PRODUCTS	8
FREESTONE PEACH PRODUCTION TABLE	8
5 YEAR COMPARISON OF ACREAGE & CROP VALUE	9
COMPARISON OF CROP VALUES FOR 1995 & 1996	9
KINGS COUNTY'S TEN LEADING COMMODITIES	10
SUSTAINABLE AGRICULTURAL REPORTING	11
GENERAL INFORMATION	13
RAINFALL DATA	BACK COVER

FIELD CROPS

CROP	YEAR	HARVESTED PRODUCTION			UNIT	VALUE	
		ACREAGE	PER ACRE	TOTAL		PER UNIT	TOTAL
Barley	1996	18,794	0.80	15,035	Ton	159.00	2,391,000
	1995	30,157	1.63	49,156	Ton	112.00	5,505,000
Beans Dry a/	1996	2,456	1.00	2,456	Ton	569.00	1,397,000
	1995	3,454	1.15	3,972	Ton	802.00	3,186,000
Corn Silage	1996	27,919	19.24	537,162	Ton	21.80	11,710,000
	1995	16,401	23.60	387,064	Ton	18.02	6,975,000
Cotton							
Acala-Lint b/	1996	209,345	1.97	412,410	495 lb.	399.00	164,551,000
	1995	257,431	1.88	483,970	495 lb.	412.00	199,396,000
Acala-Seed	1996			170,542	Ton	190.00	32,403,000
	1995			262,015	Ton	180.00	47,163,000
Cotton	1996	42,335	1.94	82,130	495 lb.	565.00	46,403,000
Pima-Lint b/	1995	29,199	1.78	51,974	495 lb.	581.00	30,197,000
Pima-Seed	1996			33,818	Ton	175.00	5,918,000
	1995			21,381	Ton	170.00	3,635,000
Hay							
Alfalfa	1996	31,394	7.27	228,234	Ton	112.00	25,562,000
	1995	25,880	6.99	180,901	Ton	98.00	17,728,000
Other c/	1996	2,033	3.54	7,197	Ton	80.00	576,000
	1995	2,083	2.48	5,166	Ton	59.00	305,000
Pasture							
Irrigated	1996	10,000			Acre	109.00	1,090,000
	1995	12,000			Acre	107.00	1,284,000
Range	1996	101,000			Acre	2.35	237,000
	1995	100,000			Acre	2.25	225,000
Alfalfa	1996	22,499			Acre	17.00	382,000
Stubble	1995	27,080			Acre	23.00	623,000
Safflower	1996	33,233	1.19	39,547	Ton	301.00	11,904,000
	1995	36,185	1.21	43,784	Ton	300.00	13,135,000
Sugar Beets	1996	1,394	35.00	48,790	Ton	30.00	1,464,000
	1995	2,115	30.75	65,036	Ton	34.00	2,211,000

FIELD CROPS

CROP	YEAR	HARVESTED PRODUCTION		UNIT	VALUE		
		ACREAGE	PER ACRE		TOTAL	PER UNIT	TOTAL
Wheat	1996	48,705	2.42	117,866	Ton	161.00	18,976,000
	1995	42,937	2.58	110,777	Ton	145.33	16,099,000
Other d/	1996	26,764					5,182,000
	1995	17,676					2,451,000
TOTAL	1996	577,871					330,146,000
	1995	602,598					350,118,000

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, screening, straw, sudangrass, sorghum, wheat silage, and winter forage.

SEED CROPS

CROP	YEAR	HARVESTED PRODUCTION		UNIT	VALUE		
		ACREAGE	PER ACRE		TOTAL	PER UNIT	TOTAL
Alfalfa							
Certified	1996	14,896	714	10,635,744	lb.	1.43	15,209,000
	1995	11,091	624	6,920,784	lb.	1.41	9,758,000
Non-certified	1996	1,400	549	768,600	lb.	1.40	1,076,000
	1995	1,600	624	998,400	lb.	1.35	1,348,000
Total	1996	16,296		11,404,344	lb.		16,285,000
	1995	12,691		7,919,184	lb.		11,106,000
Barley, Certified	1996			0	lb.		
	1995	1,000	4400	4,400,000	lb.	0.07	308,000
Cotton, Certified	1996	4,150		3,444	Ton	235.00	809,000
	1995	4,783		4,641	Ton	235.00	1,091,000
Wheat, Certified	1996	3,757	5,520	20,738,640	lb.	0.08	1,659,000
	1995	4,788	4,458	21,344,904	lb.	0.08	1,708,000
Vegetable a/	1996	839					1,808,000
	1995	673					2,580,000
TOTAL	1996	25,042					20,561,000
	1995	23,935					16,793,000

a/ Broccoli, cauliflower, chinese cabbage, flowers, lettuce, onion, radish, and turnip.

FRUIT & NUT CROPS

CROP	YEAR	BEARING		PRODUCTION		VALUE	
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Almonds	1996	2,139	0.80	1,711	Ton	4,067.00	6,959,000
	1995	2,070	0.63	1,304	Ton	4,376.70	5,707,000
Almond Hulls	1996			907	Ton	90.00	82,000
	1995			689	Ton	90.00	62,000
Apples							
Fresh	1996			2,717	Ton	375.00	1,019,000
	1995			4,064	Ton	563.00	2,288,000
Processed	1996			1,800	Ton	108.00	194,000
	1995			2,285	Ton	160.00	366,000
Apples Total	1996	574	7.91	4,517	Ton		1,213,000
	1995	541	11.74	6,349	Ton		2,655,000
Apricots							
Fresh	1996			885	Ton	1,319.00	1,167,000
	1995			1,294	Ton	1,505.00	1,947,000
Processed	1996			120	Ton	310.00	37,000
	1995			228	Ton	278.00	63,000
Apricots Total	1996	375	2.36	1,005	Ton		1,204,000
	1995	375	4.06	1,522	Ton		2,010,000
Firewood a/	1996			497	Cord	100.00	50,000
	1995			520	Cord	110.00	57,000
Grapes							
Raisin Varieties							
Fresh	1996			1,200	Ton	915.00	1,098,000
				6,500	Ton	1,006.00	6,539,000
Crushed				8,800	Ton	185.00	1,628,000
Canned				2,324	Ton	248.00	576,000
Total		2,079		18,824			9,841,000
Grapes							
Raisin Varieties							
Fresh	1995			1,800	Ton	837.00	1,507,000
				5,600	Ton	930.00	5,208,000
Crushed				8,600	Ton	160.00	1,376,000
Canned				2,238	Ton	238.00	533,000
Total		2,079		18,238			8,624,000
Table Varieties							
	1996	632	11.05	6,984	Ton	961.00	6,711,000
	1995	617	11.89	7,336	Ton	867.77	6,366,000

FRUIT & NUT CROPS

CROP	YEAR	BEARING		PRODUCTION		VALUE	
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Grapes							
Wine Varieties							
	1996	1,503	8.08	12,144	Ton	304.00	3,692,000
	1995	1,503	10.25	15,406	Ton	239.00	3,682,000
Grapes Total	1996	4,214					20,244,000
	1995	4,199					18,672,000
Kiwifruit							
	1996	297	4.34	1,289	Ton	1,158.00	1,493,000
	1995	320	4.83	1,546	Ton	1,450.00	2,242,000
Nectarines							
	1996	1,929	5.86	11,304	Ton	612.00	6,918,000
	1995	2,011	6.17	12,408	Ton	693.00	8,599,000
Olives							
	1996	433	2.69	1,165	Ton	543.00	632,000
	1995	1,067	4.03	4,300	Ton	601.00	2,584,000
Peaches							
Clingstone							
	1996	1,270	26.41	33,541	Ton	203.00	6,809,000
	1995	1,270	18.85	23,940	Ton	209.00	5,003,000
Freestone							
	1996	2,749	7.10	19,518	Ton	611.00	11,925,000
	1995	2,774	7.18	19,917	Ton	660.00	13,145,000
Peaches Total	1996	4,019					18,734,000
	1995	4,044					18,148,000
Pistachios							
	1996	5,670	1.01	5,727	Ton	2,434.00	13,939,000
	1995	5,670	1.41	7,995	Ton	2,257.00	18,045,000
Plums							
	1996	2,055	5.34	10,974	Ton	567.00	6,222,000
	1995	2,154	3.96	8,530	Ton	1,011.00	8,624,000
Pomegranates							
	1996	339	5.38	1,824	Ton	1,067.00	1,946,000
	1995	339	5.70	1,932	Ton	921.00	1,780,000
Walnuts							
	1996	6,407	1.67	10,700	Ton	1,574.00	16,841,000
	1995	6,407	1.65	10,572	Ton	1,336.00	14,124,000
Other b/							
	1996	315					1,491,000
	1995	434					1,824,000
TOTAL	1996	28,766					97,968,000
	1995	29,631					105,133,000

a/ Includes all varieties.

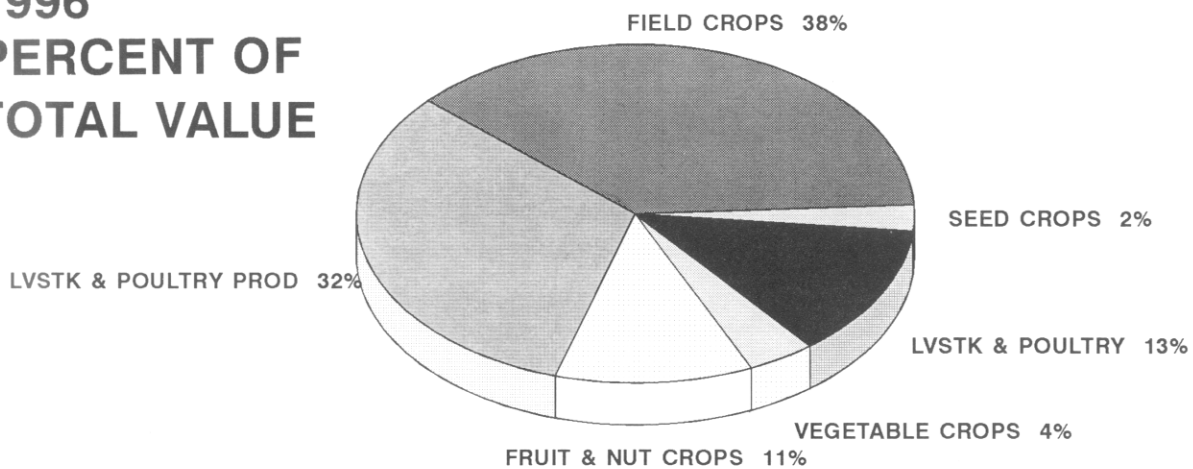
b/ Includes asian pears, cherries, jojoba, pecans, persimmons, prunes, quince and strawberries.

VEGETABLE CROPS

CROP	YEAR	HARVESTED PRODUCTION		UNIT	VALUE		
		ACREAGE	PER ACRE		PER UNIT	TOTAL	
Broccoli							
Fresh	1996			229	Ton	454.00	104,000
	1995			293	Ton	612.00	179,000
Processed	1996			4,595	Ton	380.00	1,746,000
	1995			5,582	Ton	370.00	2,065,000
Broccoli Total							
	1996	1,332	3.45				1,850,000
	1995	1,175	5.00				2,244,000
Cantaloupes							
	1996	1,871	14.60	27,317	Ton	200.00	5,463,000
	1995	1,367	12.06	16,486	Ton	203.00	3,347,000
Sweet Corn							
	1996	725	8.10	5,873	Ton	223.00	1,310,000
	1995	654	7.50	4,905	Ton	374.00	1,834,000
Tomatoes							
Fresh	1996	1,220	14.65	17,873	Ton	319.00	5,701,000
	1995	1,415	13.66	19,329	Ton	337.00	6,514,000
Processed	1996	6,700	34.54	231,418	Ton	51.00	11,802,000
	1995	6,100	31.85	194,285	Ton	54.00	10,491,000
Tomatoes Total							
	1996	7,920		249,291			17,503,000
	1995	7,515		213,614			17,005,000
Other a/							
	1996	4,737					9,438,000
	1995	2,781					8,214,000
TOTAL							
	1996	16,585					35,564,000
	1995	13,492					32,644,000

a/ Includes asparagus, cauliflower, chinese cabbage, garlic, eggplant, lettuce, misc. melons, misc. vegetable, peanuts, processed garlic, squash and watermelons.

1996 PERCENT OF TOTAL VALUE



INVENTORIES OF LIVESTOCK & POULTRY

ITEM	January 1, 1997 NUMBER OF HEAD	January 1, 1996 NUMBER OF HEAD
Cattle and Calves		
All	189,000	187,000
Dairy Cows 2 Years and Over	106,590	93,000
Cattle and Calves on Feed	3,700	3,500
Other	132,000	130,000
Sheep and Lambs	1,300	10,720
Goats	2,900	2,400
Hogs and Pigs	10,000	8,500
Turkeys	750,000	650,000

LIVESTOCK & POULTRY

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NUMBER OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Breeding	1996					1,638,000
Stock a/	1995					1,454,000
Cattle and Calves	1996	152,696	929,918	Cwt.	52.50	48,821,000
	1995	162,820	976,923	Cwt.	52.00	50,800,000
Hogs and Pigs	1996	15,588	34,260	Cwt.	56.00	1,919,000
	1995	17,015	37,943	Cwt.	41.00	1,556,000
Sheep and Lambs	1996	13,007	14,308	Cwt.	88.00	1,259,000
	1995	12,720	14,425	Cwt.	80.00	1,154,000
Turkeys	1996	2,563,077	58,207,479	lb.	0.67	38,999,000
	1995	1,919,054	41,470,757	lb.	0.62	25,712,000
Other b/	1996					20,177,000
	1995					18,523,000
TOTAL	1996					112,813,000
	1995					99,199,000

a/ For All animals except horses.

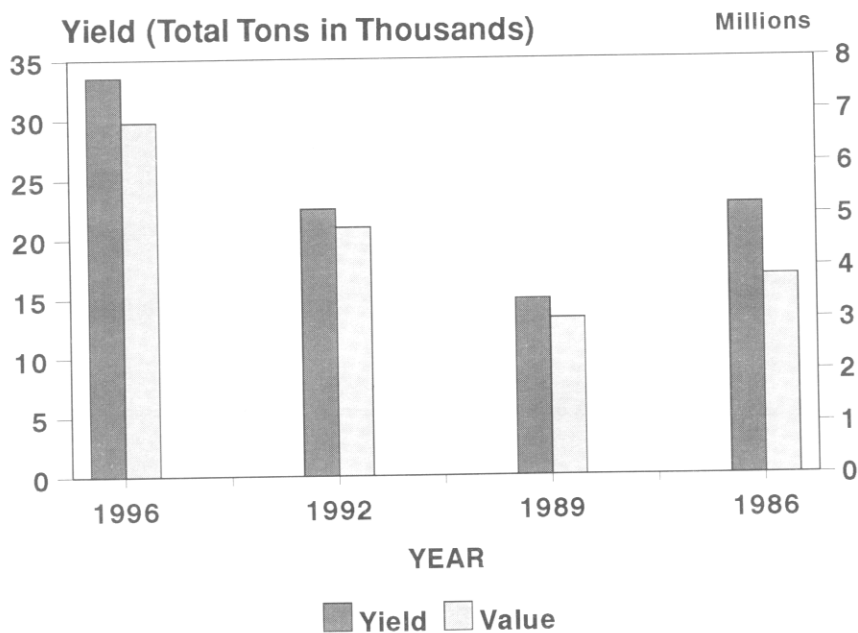
b/ Includes Catfish, chickens, and goats.

LIVESTOCK & POULTRY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	PER UNIT	TOTAL
Eggs-Chicken Market	1996	2,277,600	Doz.	0.90	2,050,000
	1995	2,302,700	Doz.	0.86	1,980,000
Manure	1996	396,063	Ton	6.10	2,416,000
	1995	347,113	Ton	4.55	1,579,000
Milk					
Milk, Goats	1996	14,751	Cwt.	37.53	554,000
	1995	16,649	Cwt.	26.64	444,000
Market	1996	20,602,749	Cwt.	13.42	276,489,000
	1995	19,710,894	Cwt.	11.47	226,084,000
Manufacturing	1996	109,813	Cwt.	12.27	1,347,000
	1995	91,010	Cwt.	10.41	947,000
Milk Total	1996	20,727,313			278,390,000
	1995	19,818,553			227,475,000
Wool	1996	135,273	lb.	1.50	203,000 *
	1995	132,288	lb.	1.34	177,000 *
TOTAL	1996				283,059,000
	1995				231,211,000

* Not including wool incentive payment.

CLINGSTONE PEACHES

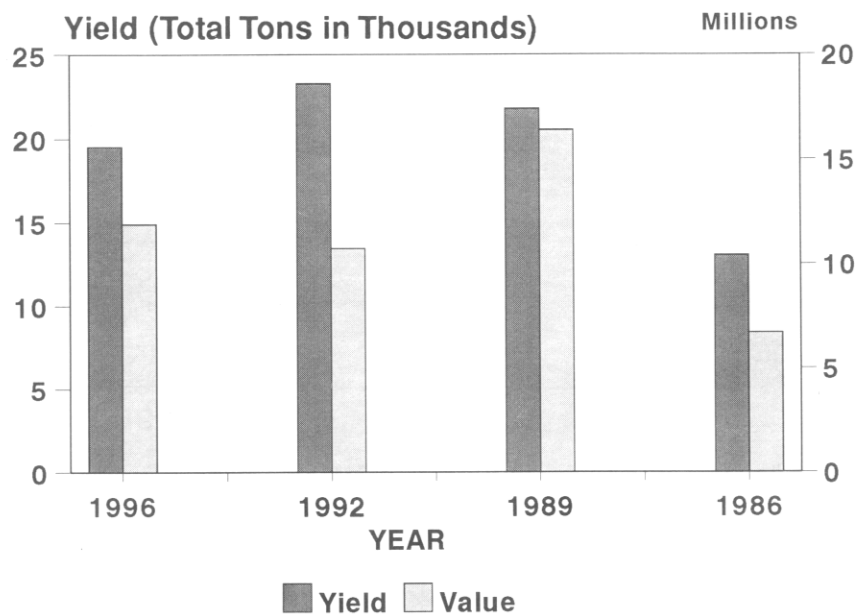


APIARY PRODUCTS

ITEM	YEAR	TOTAL PRODUCTION	UNIT	PER UNIT	TOTAL
Apiary Products					
Honey	1996	2,571,666	lb.	0.88	2,263,000
	1995	2,478,845	lb.	0.60	1,487,000
Beeswax	1996	42,861	lb.	1.93	83,000
	1995	41,314	lb.	2.00	83,000
Pollination					
Seed Alfalfa	1996	44,688	Colonies	24.00	1,073,000
	1995	38,073	Colonies	23.00	876,000
Tree Fruit a/	1996	9,536	Colonies	33.00	315,000
	1995	9,530	Colonies	34.00	324,000
Cantaloupe	1996	2,806	Colonies	15.00	42,000
	1995	2,185	Colonies	14.00	31,000
TOTAL	1996				3,776,000
	1995				2,801,000

a/ Almonds, apples and plums.

FREESTONE PEACHES

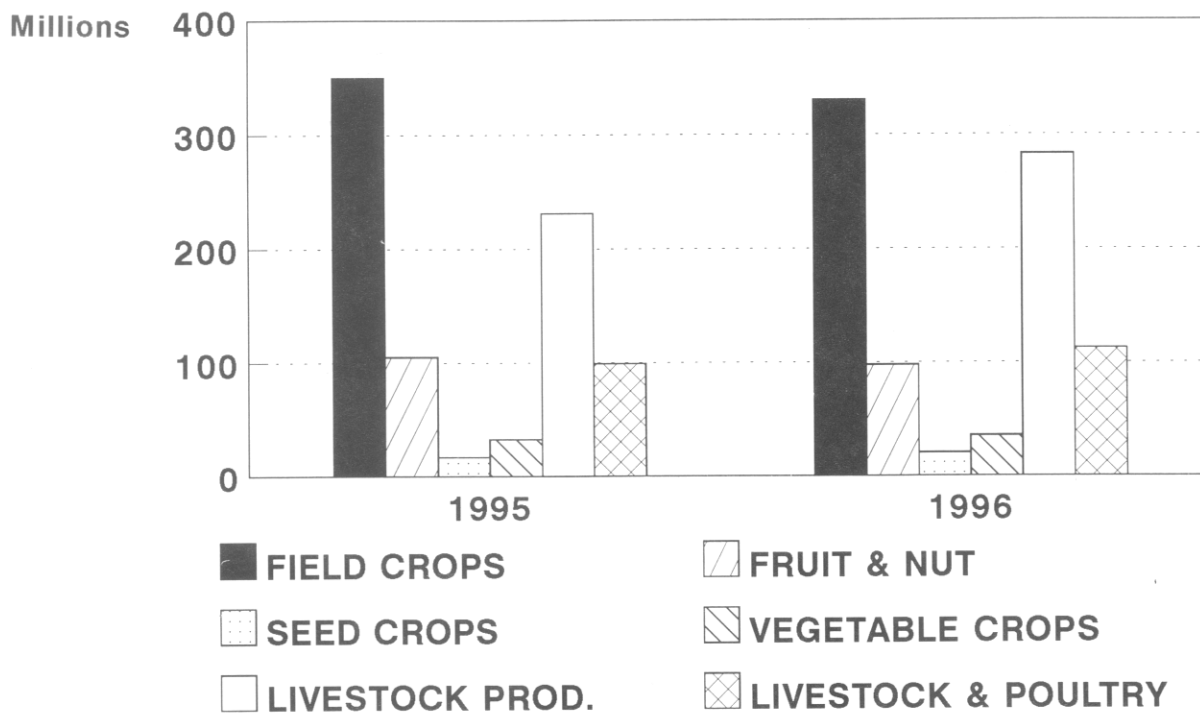


FIVE YEAR COMPARISON OF ACREAGE & CROP VALUES

	1992	1993	1994	1995	1996
Apiary Products	4,230,000	1,992,000	2,281,000	2,801,000	3,776,000
Field Crops	356,410,000	362,811,000	339,361,000	350,118,000	330,146,000
Acreage	554,610	578,201	558,061	602,598	577,871
Fruit and Nut Crops	78,734,000	112,541,000	84,343,000	105,133,000	97,968,000
Acreage	27,277	27,995	27,586	29,631	28,766
Livestock and Poultry	97,399,000	106,206,000	105,980,000	99,199,000	112,813,000
Livestock and Poultry Products	185,802,000	198,540,000	222,794,000	231,211,000	283,059,000
Seed Crops	23,843,000	12,892,000	13,813,000	16,793,000	20,561,000
Acreage	32,270	19,787	19,651	23,935	25,042
Vegetable Crops	29,439,000	44,231,000	44,086,000	32,644,000	35,564,000
Acreage	9,956	18,743	21,004	13,492	16,585
TOTAL	\$ 775,857,000	* \$ 839,213,000	\$ 812,658,000	* \$ 837,899,000	\$ 883,887,000

* Revised

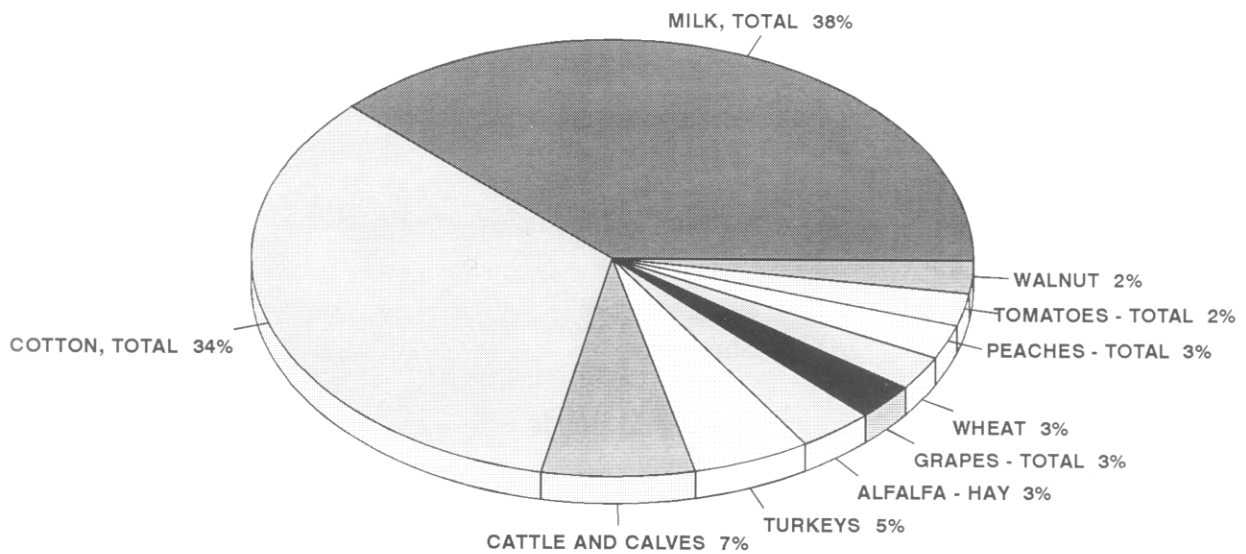
1995 AND 1996 PRODUCTION VALUE COMPARISONS



KINGS COUNTY TEN LEADING CROPS

CROP	1996 RANK	1996 DOLLAR VALUE	1995 RANK	1994 RANK	1993 RANK
Milk, Total	1	278,390,000	2	2	2
Cotton, Total	2	250,084,000	1	1	1
Cattle and Calves	3	48,821,000	3	3	3
Turkeys	4	38,999,000	4	5	4
Alfalfa, Hay	5	25,562,000	8	7	6
Grapes, Total	6	20,244,000	5	6	10
Wheat	7	18,976,000	10	11	14
Peaches, Total	8	18,734,000	6	9	7
Tomatoes, Total	9	17,503,000	9	4	5
Walnut	10	16,841,000	11	14	10
TOTAL		734,154,000			

TOP TEN COMMODITIES OF KINGS COUNTY FOR 1996



KINGS COUNTY 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>	Generally distributed
	Seed Head Weevil <u>Microlarinus lareynii</u>	Generally distributed
Yellow Starthistle <u>Centaurea solstitialis</u>	Seed Head Weevil <u>Bangasternus orientalis</u>	2 sites
	Gall Fly <u>Urophora sirunaseva</u>	1 site
Ash Whitefly <u>Siphoninus phillyreae</u>	Parasitic Wasp <u>Encarsia partenorea</u>	Generally distributed
Silverleaf Whitefly <u>Bemisia argentifolii</u>	Parasitic Wasp <u>Eretmocerus sp.(M95104)</u>	1 site
	<u>Eretmocerus sp.(M95012)</u>	1 site
	<u>Eretmocerus mundus</u>	1 site
COUNTY PEST ERADICATION		
Pink Bollworm <u>Pectinophora gossypiella</u>	Mechanical/Host Free Period	251,680 acres
Alligatorweed <u>Alternanthera philoxeroides</u>	Visual Inspection	No plants found
COUNTY PEST DETECTION		
Various Insect Pests	Various Detection Insect Traps	885 traps
COUNTY PEST EXCLUSION		
European Corn Borer <u>Ostrinia nubilalis</u>	Railroad Corn Shipments	1,244 inspections
Gypsy Moth <u>Lymantria dispar</u>	Household Goods Shipments	24 inspections
Various	Truck Shipments	14,017 inspections

KINGS COUNTY SUSTAINABLE AGRICULTURAL REPORTING

Crops

Export Commodities
Export Seed

Activity

Origin Certification
Field Inspections

Scope of Program

1,088 issued
98 sites/16,117 acres

LIST OF COMMODITIES EXPORTED BY KINGS COUNTY

Alfalfa - Seed
Almond
Apple
Cherries
Cotton - Lint
Cotton - Seed

Garlic
Grapes
Kiwifruit
Nectarine
Onions - Seed
Peppers - Seed

Peaches
Plum
Pistachios
Pomegranates
Safflower - Seed
Wheat - Seed

EXPORT TRADE PARTNERS OF KINGS COUNTY IN 1996

Argentina
Australia
Bangladesh
Brazil
Canada
Colombia
Ecuador
Egypt
Fiji
France
Germany

Hong Kong
Indonesia
India
Israel
Italy
Japan
Korea
Mexico
New Zealand
Nicaragua
Oman

Panama
Peru
Paraguay
Philippines
Portugal
Saudi Arabia
Spain
Taiwan
Thailand
United Kingdom
Venezuela

"Earth is here so kind, that just tickle her with a hoe and she laughs with a harvest."
Douglas Jerrold (1667-1745)

GENERAL KINGS COUNTY INFORMATION

County Seat	Hanford
County Population (1996)	118,872
Population per Square Mile	85.15
Total Assessed Value (1996)	\$3,858,990,456
Land Area (Square Miles)	1,396
Total Acres	893,440
Total Harvested crop acreage (1996)	672,315
Foreign Ownership (1993)	7,243 (acres)
Total Farmland (Acres - 1995)	761,266
Public Ownership of Land (Acres - 1990)	
Federal	20,912.69
State	1,684.99
County	5,556.25
Local Agencies	9,460.34

Agricultural production ranked 12th among California counties and 16th among U.S. counties.(Based on 1995 total value.)

Railroads - Santa Fe, Southern Pacific & San Joaquin Railroad.

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, CA

YEAR	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	TOTAL
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	1.40	3.32	0.85	0.10	0.00	7.98
1992-93	0.00	0.01	0.00	0.00	0.58	0.00	2.62	3.88	2.48	2.16	0.07	0.08	11.88
1993-94	0.26	0.00	0.00	0.24	0.24	0.68	0.66	1.45	1.02	0.70	0.69	0.00	5.94
1994-95	0.00	0.00	0.00	1.06	0.35	1.54	0.33	4.70	0.51	4.77	0.65	0.87	14.78
1995-96	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.79	2.55	2.15	0.89	0.16	9.13
1996-97	0.04	0.00	0.00	0.00	1.65	0.87	3.03						
AVERAGE	0.05	0.01	0.03	0.19	0.31	0.86	1.10	1.50	1.36	1.40	0.76	0.25	7.84
50 YEAR AVERAGE RAINFALL													7.84



1997
AGRICULTURAL CROP REPORT
Kings County, California

WALNUTS

Walnuts are recognized as one of the oldest tree foods known to man. Archeological finds have recorded walnuts growing wild over a great portion of Europe and Asia, predating recorded history by many thousands of years. Most authorities believe the walnut first came from ancient Persia. Passing along by trade from Persia, walnuts became a much-valued delicacy to the people in China, Greece, India, Italy, Japan, and Spain. In the early days of Rome, walnuts were considered a food for the gods. The Romans gave the name “*Juglans regia*” to walnuts in honor of Jupiter.

Greek mythology records the origin of walnuts as resulting when Bacchus, the god of wine and ecstasy, fell in love with Carya. According to legend, Carya’s two older sisters tried to prevent her and Bacchus from meeting. When Bacchus discovered this, he transformed the two older sisters into stones and Carya into a Walnut tree. This is worth noting since many of the genus names of the walnut family contain Carya in a derivative form, such as, *Juglandaceae Carya* for pecans and hickories, and *Juglandaceae Pterocarya* for wingnuts, just to name a couple.

The Persian walnut, (*Juglandaceae Regia*), is the type of walnut grown commercially in California and here in Kings County. It is believed to have originated in the central mountain regions of Asia, approximately 6-7,000 years ago. Today, the more commonly used name for the Persian walnut is the “English walnut”. This reference started centuries ago when people referred to Persian walnuts as “English walnuts” because it was English merchant marine ships that transported the walnuts to trading ports around the world.

Around 1770, Franciscan mission fathers brought walnuts into California from South America and Spain. Commercial production of walnuts in California didn’t begin until about 1867, in southern California. Approximately 65% of the state’s production came from the southern California area until the 1930s when the majority of production moved north into the San Joaquin Valley. With its mild climate and deep fertile soils, California provides 99% of the total U.S. walnut production, which accounts for two-thirds of the world’s walnut trade. Kings County walnut acreage is growing. In 1996, Kings County ranked tenth in acreage among walnut producing counties in the state and seventh in production and value. Kings County produced 5% of the state total in 1996.

The walnut orchard scene on the cover of this crop report was taken on the farm of the late Otis A. “Nick” Nicholson, a former Deputy Agricultural Commissioner/Sealer for Kings County. The picture speaks to the simple beauty and serenity found in farming. The way Nick Nicholson farmed transformed farming into art.

Adding walnuts to recipes can really enhance the flavor and nutrition of your favorite foods. The ratio of poly unsaturated to saturated fats is one of the highest contained in natural foods. This fact makes walnuts a good source for the type of fatty acids, beneficial to low fat diets. Next time you have oatmeal, bake a chocolate cake, brownies, persimmon cookies, or even make a salad be sure you include some California walnuts.

Cover photos courtesy of Robert H. Beede, U.C. Cooperative Extension Farm Advisor, Kings County; and Diamond Walnut Growers, Inc.



Dennis F. Bray
Agricultural Commissioner
Sealer Of Weights And Measures

KINGS COUNTY DEPARTMENT OF AGRICULTURAL COMMISSIONER SEALER OF WEIGHTS AND MEASURES

680 N. Campus Drive, Suite B, Hanford, California 93230-3556
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April 7, 1998

Ann M. Veneman, Secretary
California Department of Food and Agriculture
and
The Honorable Board of Supervisors
County of Kings

It is my pleasure to submit the 1997 Kings County Crop Report. This annual publication presents statistical information on the acreage, yield and gross value of Kings County agricultural products in accordance with Sections 2272 and 2279 of the California Food and Agricultural Code.

The 1997 total gross value of Kings County's major industry was \$886,963,000, an all-time county high. This represents a 0.35 percent increase from the 1996 gross production values.

Adverse weather conditions at the start of the year caused a decline in the yield and quality of some of the major crop categories, especially cotton. However, favorable market prices created an increase in values of most other 1997 crops. Fruit and Nut Crops increased \$16,277,000 (+16.6%), Vegetable Crops increased \$5,433,000 (+16.6%), and Livestock and Poultry increased \$3,298,000 (+2.9%).

Also showing increases were Apiary Products at \$494,000 (+13.1%) and Livestock and Poultry Products at \$826,000 (+0.3%).

Unfavorable weather, market values, and acreage lost to flooding contributed to the decrease of Field Crops at -\$11,989,000 (-3.6%) and Seed Crops at -\$8,343,000 (-40.6%).

Even with a slight drop in Milk production of -0.44%, Milk surpassed cotton, for the second consecutive year, as the county's top commodity for 1997. Contributing to this were reductions in cotton acreage and market pricing.

It must be emphasized that the values in this report are gross values only and in no way reflect the net income or loss to producers.

My thanks to Buzz Felleke, Agricultural and Standards Inspector III, and Tim Niswander, Deputy Commissioner-Sealer, as well as, all the department staff for the compilation and preparation of this report. Most of all, I wish to express my appreciation for the cooperation of all agricultural producers, contributing organizations and those individuals who provided necessary information for this report.

Respectfully Submitted,

Dennis F. Bray
Agricultural Commissioner
Sealer of Weights and Measures

KINGS COUNTY

AGRICULTURAL COMMISSIONER/SEALER

****PERSONNEL****

AGRICULTURAL COMMISSIONER/SEALER OF WEIGHTS AND MEASURES

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DEPUTY AGRICULTURAL COMMISSIONER/SEALERS

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Steve Schweizer

Leland P. Tos

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Stephanie Colvin

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Tom Chambers

CLERICAL

Diane O'Daniel

Linda Green

Angela Davis-Hall

Linda Lavars

1997 ANNUAL CROP REPORT

KINGS COUNTY BOARD OF SUPERVISORS

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ALENE L. TAYLOR	DISTRICT V

COUNTY ADMINISTRATIVE OFFICER

LARRY SPIKES

TABLE OF CONTENTS

SUMMARY LETTER	1
DEPARTMENT PERSONNEL	2
COUNTY ADMINISTRATION PERSONNEL	3
FIELD CROPS	4
SEED CROPS	5
FRUIT AND NUT CROPS	6
VEGETABLE CROPS	8
1997 PERCENT OF TOTAL VALUE	8
INVENTORY OF LIVESTOCK AND POULTRY	9
LIVESTOCK AND POULTRY PRODUCTS	10
APIARY PRODUCTS	11
5 YEAR COMPARISON OF ACREAGE AND CROP VALUE	12
KINGS COUNTY'S TEN LEADING COMMODITIES	13
SUSTAINABLE AGRICULTURAL REPORTING	14
EXPORTED COMMODITIES	16
KINGS COUNTY TRADE PARTNERS	17
KINGS COUNTY QUICK FACTS	18
LAND USE	19
KINGS COUNTY GENERAL INFORMATION	20

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FIELD CROPS

CROP	YEAR	HARVESTED PRODUCTION		VALUE			
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Barley	1997	18,707	1.01	18,894	Ton	130.00	2,456,000
	1996	18,794	0.8	15,035	Ton	159.00	2,391,000
Beans Dry a/	1997	5,043	0.96	4,841	Ton	523.00	2,532,000
	1996	2,456	1.00	2,456	Ton	569.00	1,397,000
Corn Silage	1997	30,266	17.81	539,037	Ton	22.16	11,945,000
	1996	27,919	19.24	537,162	Ton	21.80	11,710,000
Cotton							
Acala-Lint b/	1997	162,555	2.00	325,110	495 lb.	377.00	122,566,000
	1996	209,345	1.97	412,410	495 lb.	399.00	164,551,000
Acala-Seed	1997			134,041	Ton	187.00	25,066,000
	1996			170,542	Ton	190.00	32,403,000
Cotton Pima-Lint b/	1997	56,245	2.26	127,114	495 lb.	514.00	65,336,000
	1996	42,335	1.94	82,130	495 lb.	565.00	46,403,000
Pima-Seed	1997			52,434	Ton	180.00	9,438,000
	1996			33,818	Ton	175.00	5,918,000
Hay							
Alfalfa	1997	39,312	7.88	309,779	Ton	119.00	36,864,000
	1996	31,394	7.27	228,234	Ton	112.00	25,562,000
Other c/	1997	2,033	3.55	7,217	Ton	93.00	671,000
	1996	2,033	3.54	7,197	Ton	80.00	576,000
Pasture							
Irrigated	1997	11,000			Acre	110.00	1,210,000
	1996	10,000			Acre	109.00	1,090,000
Range	1997	102,000			Acre	2.40	245,000
	1996	101,000			Acre	2.35	237,000
Alfalfa Stubble	1997	28,305			Acre	13.00	368,000
	1996	22,499			Acre	17.00	382,000
Safflower	1997	31,131	1.25	38,914	Ton	323.00	12,569,000
	1996	33,233	1.19	39,547	Ton	301.00	11,904,000
Sugar Beets	1997	2,409	28.17	67,862	Ton	33.20	2,253,000
	1996	1,394	35.00	48,790	Ton	30.00	1,464,000

FIELD CROPS

CROP	YEAR	HARVESTED PRODUCTION		VALUE			
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Wheat	1997	53,235	2.68	142,670	Ton	140.00	19,974,000
	1996	48,705	2.42	117,866	Ton	161.00	18,976,000
Other d/	1997	26,586					4,664,000
	1996	26,764					5,182,000
TOTAL	1997	568,827					318,157,000
	1996	577,871					330,146,000

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, screening, straw, sudangrass, sorghum, wheat silage, and winter forage.

SEED CROPS

CROP	YEAR	HARVESTED PRODUCTION		VALUE			
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Alfalfa							
Certified	1997	12,810	475	6,084,750	lb.	1.45	8,823,000
	1996	14,896	714	10,635,744	lb.	1.43	15,209,000
Non-certified	1997	600	475	285,000	lb.	1.43	408,000
	1996	1,400	549	768,600	lb.	1.40	1,076,000
Total	1997	13,410		6,369,750	lb.		9,231,000
	1996	16,296		11,404,344	lb.		16,285,000
Cotton, Certified	1997	2,620		2,167	Ton	310.00	672,000
	1996	4,150		3,444	Ton	235.00	809,000
Wheat	1997	2,740	4,444	12,176,560	lb.	0.07	852,000
	1996	3,757	5,520	20,738,640	lb.	0.08	1,659,000
Vegetable a/	1997	814					1,463,000
	1996	839					1,808,000
TOTAL	1997	19,584					12,218,000
	1996	25,042					20,561,000

a/ Broccoli, cauliflower, flowers, onion, radish and tomatoes.

FRUIT & NUT CROPS

CROP	YEAR	BEARING ACREAGE	PRODUCTION		UNIT	VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
Almonds	1997	2,294	1.00	2,294	Ton	3,120.00	7,157,000
	1996	2,139	0.80	1,711	Ton	4,067.00	6,959,000
Almond Hulls	1997			802	Ton	91.00	73,000
	1996			907	Ton	90.00	82,000
Apples							
Fresh	1997			2,169	Ton	500.00	1,085,000
	1996			2,717	Ton	375.00	1,019,000
Processed	1997			1,272	Ton	70.00	89,000
	1996			1,800	Ton	108.00	194,000
Apples Total	1997	374	5.80	3,441	Ton		1,174,000
	1996	574	7.91	4,517	Ton		1,213,000
Apricots							
Fresh	1997			1,825	Ton	1,140.00	2,081,000
	1996			885	Ton	1,319.00	1,167,000
Processed	1997			150	Ton	250.00	38,000
	1996			120	Ton	310.00	37,000
Apricots Total	1997	375	4.87	1,975	Ton		2,119,000
	1996	375	2.36	1,005	Ton		1,204,000
Firewood a/	1997			450	Cord	105.00	47,000
	1996			497	Cord	100.00	50,000
Grapes							
Raisin Varieties							
Fresh	1997			1,800	Ton	966.00	1,739,000
				5,500	Ton	1,052.00	5,786,000
Crushed				8,900	Ton	185.00	1,647,000
Canned				1,500	Ton	248.00	372,000
Total		2,079		17,700			9,544,000
Grapes							
Raisin Varieties							
Fresh	1996			1,200	Ton	915.00	1,098,000
				6,500	Ton	1,006.00	6,539,000
Crushed				8,800	Ton	185.00	1,628,000
Canned				2,324	Ton	248.00	576,000
Total		2,079		18,824			9,841,000
Table Varieties							
	1997	632	8.67	5,479	Ton	753.00	4,126,000
	1996	632	11.05	6,984	Ton	961.00	6,711,000

FRUIT & NUT CROPS

CROP	YEAR	BEARING		PRODUCTION		VALUE	
		ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
Grapes							
Wine Varieties							
	1997	1,503	12.18	18,307	Ton	312.00	5,712,000
	1996	1,503	8.08	12,144	Ton	304.00	3,692,000
Grapes Total	1997	4,214					19,382,000
	1996	4,214					20,244,000
Kiwifruit							
	1997	297	6.30	1,871	Ton	1,075.00	2,011,000
	1996	297	4.34	1,289	Ton	1,158.00	1,493,000
Nectarines							
	1997	1,948	8.54	16,636	Ton	587.00	9,765,000
	1996	1,929	5.86	11,304	Ton	612.00	6,918,000
Peaches							
Clingstone							
	1997	1,289	18.00	23,202	Ton	212.00	4,919,000
	1996	1,270	26.41	33,541	Ton	203.00	6,809,000
Freestone							
	1997	2,767	8.61	23,824	Ton	586.00	13,961,000
	1996	2,749	7.10	19,518	Ton	611.00	11,925,000
Peaches Total	1997	4,056					18,880,000
	1996	4,019					18,734,000
Pistachios							
	1997	5,670	1.36	7,711	Ton	2,723.00	20,998,000
	1996	5,670	1.01	5,727	Ton	2,434.00	13,939,000
Plums							
	1997	1,981	6.50	12,877	Ton	620.00	7,983,000
	1996	2,055	5.34	10,974	Ton	567.00	6,222,000
Pomegranates							
	1997	340	8.20	2,788	Ton	1,354.00	3,775,000
	1996	339	5.38	1,824	Ton	1,067.00	1,946,000
Walnuts							
	1997	6,548	1.83	11,983	Ton	1,550.00	18,573,000
	1996	6,407	1.67	10,700	Ton	1,574.00	18,841,000
Other b/							
	1997	676					2,308,000
	1996	748					2,123,000
TOTAL	1997	28,773					114,245,000
	1996	28,766					97,968,000

a/ Includes all varieties.

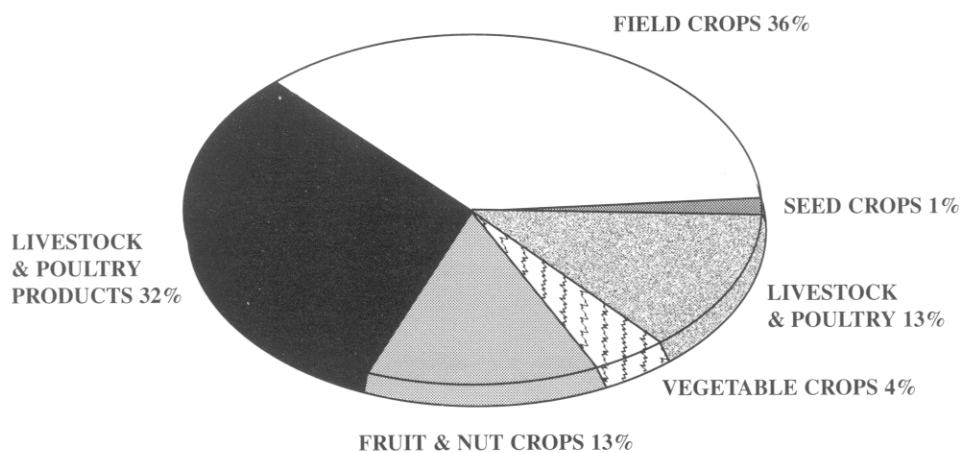
b/ Includes asian pears, cherries, jojoba, olive, pecans, persimmons, prunes, quince and strawberries.

VEGETABLE CROPS

CROP	YEAR	HARVESTED PRODUCTION		TOTAL	UNIT	VALUE	
		ACREAGE	PER ACRE			PER UNIT	TOTAL
Broccoli							
Processed	1997	1,060	5.21	5,523	Ton	390.00	2,154,000
	1996	1,332	3.45	4,595	Ton	380.00	1,746,000
Cantaloupes							
	1997	2,036	12.28	25,002	Ton	215.00	5,375,000
	1996	1,871	14.60	27,317	Ton	200.00	5,463,000
Sweet Corn							
	1997	767	7.46	5,722	Ton	293.00	1,676,000
	1996	725	8.10	5,873	Ton	223.00	1,310,000
Tomatoes							
Fresh	1997	1,393	27.80	38,725	Ton	376.00	14,561,000
	1996	1,220	14.65	17,873	Ton	319.00	5,701,000
Processed	1997	2,100	34.54	72,534	Ton	51.14	3,709,000
	1996	6,700	34.54	231,418	Ton	51.00	11,802,000
Tomatoes Total							
	1997	3,493		111,259			18,270,000
	1996	7,920		249,291			17,503,000
Other a/							
	1997	3,769					10,602,000
	1996	4,737					9,542,000
TOTAL							
	1997	11,125					38,077,000
	1996	16,585					35,564,000

a/ Includes asparagus, cauliflower, garlic, eggplant, lettuce, misc. melons, peanuts, processed carrots, processed garlic, squash and watermelons.

1997 PERCENT OF TOTAL VALUE



INVENTORIES OF LIVESTOCK & POULTRY

ITEM	January 1, 1998 NUMBER OF HEAD	January 1, 1997 NUMBER OF HEAD
Cattle and Calves		
All	189,100	189,000
Dairy Cows 2 Years and Over	100,600	106,590
Cattle and Calves on Feed	3,800	3,700
Other	133,000	132,000
Sheep and Lambs	12,768	10,720 *
Goats	3,200	2,900
Hogs and Pigs	16,450	10,000
Turkeys	662,753	750,000

LIVESTOCK & POULTRY

ITEM	YEAR	PRODUCTION		UNIT	VALUE	
		NUMBER OF HEAD	TOTAL LIVEWEIGHT		PER UNIT	TOTAL
Breeding	1997					1,755,000
Stock a/	1996					1,638,000
Cattle and Calves	1997	158,689	966,416	Cwt.	53.00	51,220,000
	1996	152,696	929,918	Cwt.	52.50	48,821,000
Hogs and Pigs	1997	16,458	34,891	Cwt.	54.00	1,884,000
	1996	15,588	34,260	Cwt.	56.00	1,919,000
Sheep and Lambs	1997	12,768	13,534	Cwt.	100.00	1,353,000
	1996	13,007	14,308	Cwt.	88.00	1,259,000
Turkeys	1997	2,651,015	62,192,812	lb.	0.70	43,535,000
	1996	2,563,077	58,207,479	lb.	0.67	38,999,000
Other b/	1997					16,364,000
	1996					20,177,000
TOTAL	1997					116,111,000
	1996					112,813,000 *

a/ For All animals except horses.

b/ Includes Catfish, chickens, and goats.

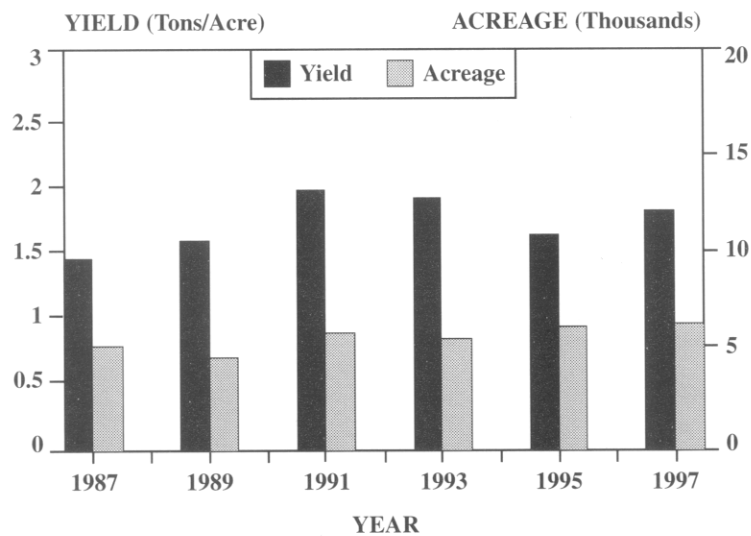
* Revised

LIVESTOCK & POULTRY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	PER UNIT	TOTAL
Eggs-Chicken Market	1997	3,011,666	Doz.	0.89	2,680,000
	1996	2,277,600	Doz.	0.90	2,050,000
Manure	1997	391,628	Ton	10.00	3,916,000
	1996	396,063	Ton	6.10	2,416,000
Milk					
Milk, Goats	1997	22,390	Cwt.	28.00	627,000
	1996	14,751	Cwt.	37.53	554,000
Market	1997	22,265,197	Cwt.	12.38	275,643,000
	1996	20,602,749	Cwt.	13.42	276,489,000
Manufacturing	1997	79,266	Cwt.	11.27	893,000
	1996	109,813	Cwt.	12.27	1,347,000
Milk Total	1997	22,366,853			277,163,000
	1996	20,727,313			278,390,000
Wool	1997	132,787	lb.	0.95	126,000 *
	1996	135,273	lb.	1.50	203,000 *
TOTAL	1997				283,885,000
	1996				283,059,000

* Not including wool incentive payment.

WALNUT YIELD & HARVESTED ACRES

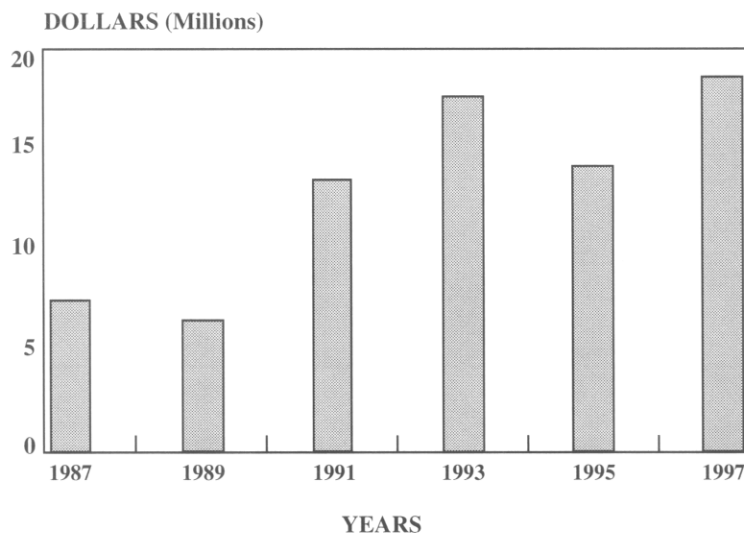


APIARY PRODUCTS

ITEM	YEAR	TOTAL PRODUCTION	UNIT	PER UNIT	TOTAL
Apiary Products					
Honey	1997	3,922,016	lb.	0.70	2,745,000
	1996	2,571,666	lb.	0.88	2,263,000
Beeswax	1997	65,367	lb.	1.72	112,000
	1996	42,861	lb.	1.93	83,000
Pollination					
Seed Alfalfa	1997	38,610	Colonies	27.00	1,042,000
	1996	44,688	Colonies	24.00	1,073,000
Tree Fruit a/	1997	10,144	Colonies	33.76	342,000
	1996	9,536	Colonies	33.00	315,000
Cantaloupe	1997	2,036	Colonies	14.00	29,000
	1996	2,806	Colonies	15.00	42,000
TOTAL	1997				4,270,000
	1996				3,776,000

a/ Almonds apples and plums.

WALNUT TOTAL PRODUCTION VALUE

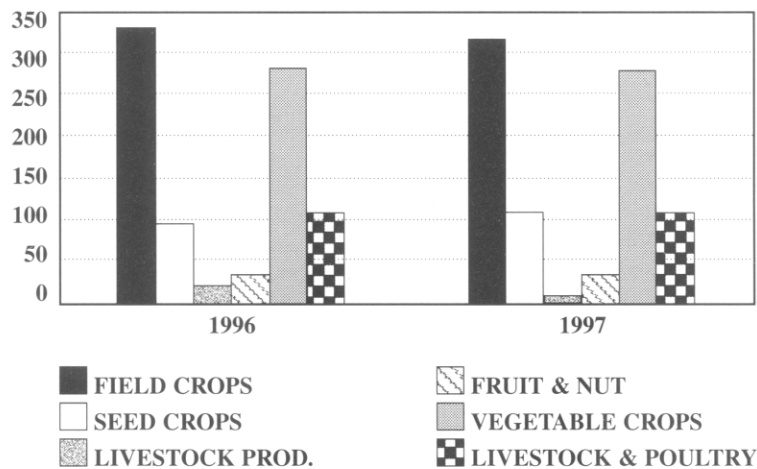


FIVE YEAR COMPARISON OF ACREAGE & CROP VALUES

	1993	1994	1995	1996	1997
Apiary Products	1,992,000	2,281,000	2,801,000	3,776,000	4,270,000
Field Crops	362,811,000	339,361,000	350,118,000	330,146,000	318,157,000
Acreage	578,201	558,061	602,598	577,871	568,827
Fruit and Nut Crops	112,541,000	84,343,000	105,133,000	97,968,000	114,245,000
Acreage	27,995	27,586	29,631	28,766	28,773
Livestock and Poultry	106,206,000	105,980,000	99,199,000	112,813,000	116,111,000
Livestock and Poultry Products	198,540,000	222,794,000	231,211,000	283,059,000	283,885,000
Seed Crops	12,892,000	13,813,000	16,793,000	20,561,000	12,218,000
Acreage	19,787	19,651	23,935	25,042	19,584
Vegetable Crops	29,439,000	44,231,000	44,086,000	32,644,000	38,077,000
Acreage	9,956	18,743	21,004	16,585	11,125
TOTAL	\$ 839,213,000	\$ 812,658,000	\$ 837,899,000	\$ 883,887,000	\$ 886,963,000

1996 and 1997 PRODUCTION VALUE COMPARISONS

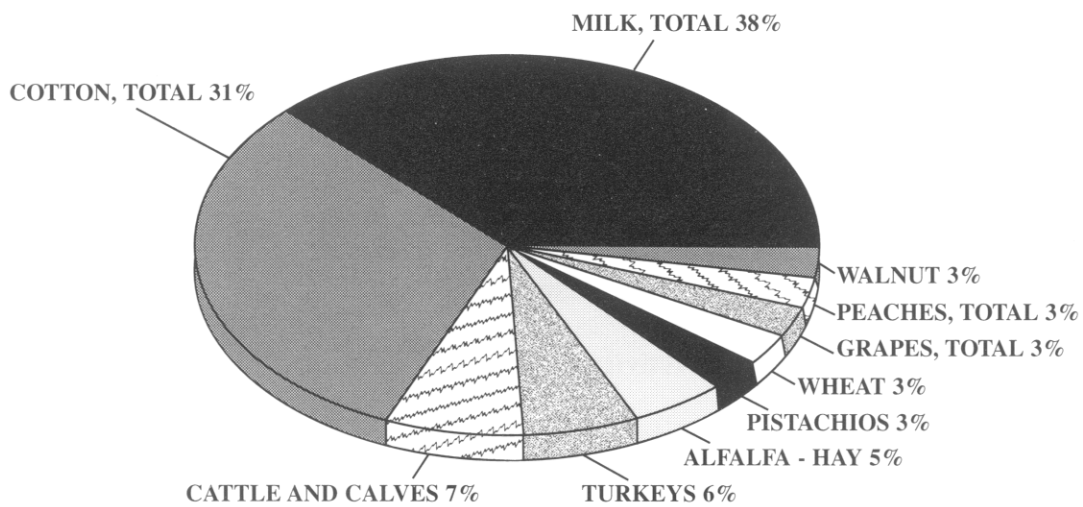
Millions



KINGS COUNTY'S TEN LEADING COMMODITIES

CROP	1997 RANK	1997 DOLLAR VALUE	1996 RANK	1995 RANK	1994 RANK
Milk, Total	1	277,163,000	1	2	2
Cotton, Total	2	223,078,000	2	1	1
Cattle and Calves	3	51,220,000	3	3	3
Turkeys	4	43,535,000	4	4	5
Alfalfa, Hay	5	36,864,000	5	8	7
Pistachios	6	20,998,000	12	7	9
Wheat	7	19,947,000	7	10	11
Grapes, Total	8	19,382,000	6	5	6
Peaches, Total	9	18,880,000	8	6	9
Walnut	10	18,573,000	10	11	14
TOTAL		729,640,000			

TOP TEN COMMODITIES OF KINGS COUNTY FOR 1997



KINGS COUNTY SUSTAINABLE AGRICULTURAL REPORTING

COUNTY BIOLOGICAL CONTROL

Pest	Agent/Mechanism	Scope of Program
Puncture Vine <u>Tribulus terrestris</u>	Stem Mining Weevil <u>Microlarinus lypriformis</u>	Generally distributed
	Seed Head Weevil <u>Microlarinus lareynil</u>	Generally distributed
Yellow Starthistle <u>Centaurea solstitialis</u>	Seed Head Weevil <u>Bangasternus orientalis</u>	2 sites
	Gall Fly <u>Urophora sirunaseva</u>	1 site
Ash Whitefly <u>Siphoninus phillyreae</u>	Parasitic Wasp <u>Encarsia partenorea</u>	Generally distributed
Silverleaf Whitefly <u>Bemisia argentifolii</u>	Parasitic Wasp <u>Eretmocerus sp.(M95104)</u>	6 site
	<u>Eretmocerus sp.(M95012)</u>	6 site
	<u>Eretmocerus mundus</u>	6 site

COUNTY PEST EXCLUSION

Pest	Agent/Mechanism	Scope of Program
European Corn Borer <u>Ostrinia nubilalis</u>	Railroad Corn Shipments	1,082 inspections
Gypsy Moth <u>Lymantria dispar</u>	Household Goods Shipments	17 inspections
Various	Truck Shipments	2,421 inspections
Crops	Activity	Scope of Program
Export Commodities	Origin Certification	1,313 issued
Export Seed	Field Inspections	118 sites/26,427 acres

KINGS COUNTY SUSTAINABLE AGRICULTURAL REPORTING

COUNTY PEST ERADICATION

Pest	Agent/Mechanism	Scope of Program
Pink Bollworm <u>Pectinophora gossypiella</u>	Mechanical/Host Free Period	218,800 acres
Alligatorweed <u>Alternanthera philoxeroides</u>	Visual Inspection	No plants found

COUNTY PEST DETECTION

Pest	Number of Traps	Type of Traps
Mediterranean Fruit Fly	279	Jackson Traps
Mexican Fruit Fly	60	McPhail Traps
Oriental Fruit Fly	30	Jackson Traps
Melon Fly	30	Jackson Traps
Gypsy Moth	74	Delia Traps
Japanese Beetle	70	Japanese Beetle Traps
European Corn Borer	15	Pherocon 1 c Tapes
European Pine Shoot Moth	6	Pherocon II Traps
Khapra Beetle	205	Trogo Traps
Western Cherry Fruit Fly	18	Adult Monitoring
Apple Maggot	96	Adult Monitoring
Total Traps	928	



EXPORTED COMMODITIES

COMMODITIES EXPORTED FROM KINGS COUNTY

Alfalfa Seed
Almonds
Asparagus Seed
Apples
Barley Seed
Carrot Seed
Cherries



Cotton Lint
Cotton Seed
Fresh Garlic
Grapes
Kiwifruit
Nectarines
Onion Seed

Peaches
Pepper Seed
Plums
Pistachios
Pomegranates
Safflower Seed
Wheat Seed

EXPORT TRADE PARTNERS OF KINGS COUNTY IN 1997

Argentina
Australia
Bangladesh
Belgium
Brazil
Bahrain
Canada
China
Colombia
Costa Rica
Cypress
Dominican Republic
Ecuador
Egypt
El Salvador
France
Germany



Greece
Guatemala
Honduras
Hong Kong
Hungary
India
Indonesia
Israel
Italy
Japan
Jordan
Korea
Luxemburg
Mexico
Morocco
New Zealand
Nicaragua
Oman

Panama
Paraguay
Peru
Philippines
Portugal
Russia
Saudi Arabia
Singapore
Spain
Switzerland
Taiwan
Thailand
Turkey
United Emirates
United Kingdom
Venezuela
Vietnam

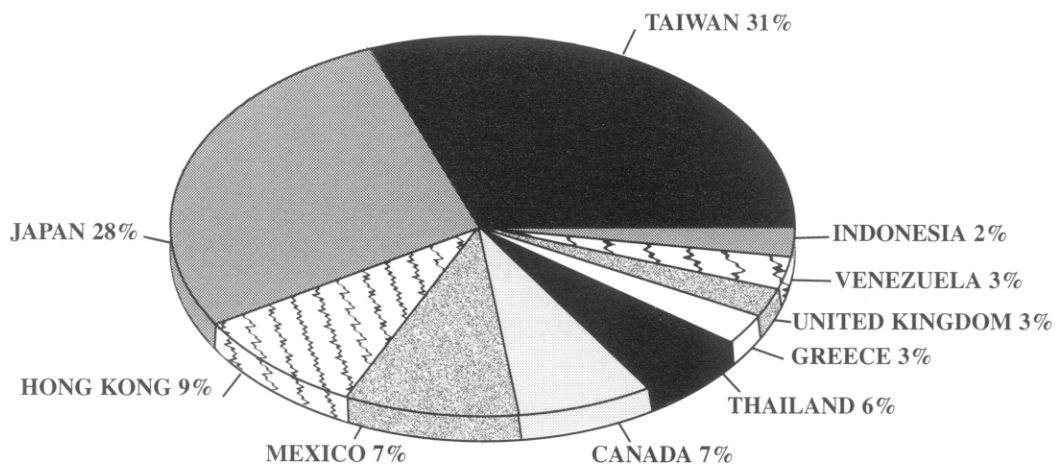
"It is vain to be always looking toward the future and never acting towards it." Boyes

KINGS COUNTY TRADE PARTNERS

EXPORT TRADE PARTNERS



TOP TEN EXPORT PARTNERS OF KINGS COUNTY FOR 1997



KINGS COUNTY QUICK FACTS

- ☆ 85% of the land area in Kings County is farmland.
- ☆ 25.5 % of the total workforce in Kings County is in Agriculture (1996)
- ☆ 681 acres is the average farm size in Kings County.
- ☆ The average age of a person that operates a farm in Kings County is about 50.4.
- ☆ 1,187 is the number of farms in Kings County
- ☆ The most prolific milk producing cow the world has ever known, No. 289, lived in this county for 19 years and gave 54,070 gallons of milk - enough to fill more than eight 60-foot tanker trucks.

CERTIFIED FARMERS MARKETS

Hanford Certified Farmer's Market
116 W. Seventh Street.
Hanford, Ca. 93230
Date: Thursday
Time: 4:00 p.m. - 7:00 p.m.
Month: May - October

Hanford Mall Certified Farmer's Market
1675 W. Lacey Blvd.
Hanford, Ca. 93230
Date: Saturday
Time: 8:00 a.m. - Noon.
Month: May - October

Lemoore Certified Farmer's Market
218 West D Street
Lemoore, Ca. 93245
Date: Tuesday
Time: 4:00 p.m. - 7:00 p.m.
Month: May - October

KINGS COUNTY PRODUCE NORMALLY AVAILABLE IN FARMER'S MARKET

ALMONDS
APPLES
APRICOTS
ARTICHOKES
ASPARAGUS
BELL PEPPERS
BROCCOLI
BEANS
CANTALOUPE
CARROTS
CUCUMBERS

EGGPLANT
FIGS
GARLIC
GRAPES
MIXED MELONS
NECTARINES
OKRA
ONIONS
PEANUTS
PEARS
PEACHES

PERSIMMONS
PISTACHIOS
POMEGRANATES
PLUMS
SQUASH
STRAWBERRIES
SWEET CORN
TOMATOES-CHERRIES
TOMATOES
WALNUTS
WATERMELON

TO LEARN MORE ABOUT KINGS COUNTY AGRICULTURE VISIT OUR WEB SITE
@ <http://www.cnetech.com/agcom>

LAND USE

COUNTY	1996 RANK	GROSS VALUE	TOTAL COUNTY AREA ACRES	FARMLAND ACRES	PERCENT FARMLAND	AG VALUE PER COUNTY ACRES
FRESNO	1	\$ 3,313,426,000	4,080,000	2,134,762	52%	\$ 812.11
TULARE	2	\$ 2,801,021,000	3,158,400	1,512,589	48%	\$ 886.85
KERN	3	\$ 2,067,028,000	5,223,000	3,037,068	58%	\$ 395.75
MONTEREY	4	\$ 1,934,907,558	2,127,360	1,426,212	67%	\$ 909.53
KINGS	11	\$ 883,887,000	893,440	761,266	85%	\$ 989.31

KINGS COUNTY LAND USE SUMMARY

LAND USE CATEGORY	1994		1996		ACREAGE CHANGE
	ACRES	PERCENT	ACRES	PERCENT	
Prime Farmland	144,816	16%	143,003	16%	-1,813
Farmland of Statewide Importance	446,226	50%	435,166	49%	-11,060
Unique Farmland	25,302	3%	24,846	3%	-456
Farmland of Local Importance	5,220	1%	5,795	1%	575
Grazing Land	234,247	26%	244,500	27%	*10,253
Urban and Built-up Land	26,465	3%	27,308	3%	843
Other Land	11,089	1%	12,757	1%	1,668
Water Area	75	0%	65	0%	-10
TOTAL ACRES	893,440		893,440		

* Dry farming land converted back to grazing land.

The dynamics of this Valley continue to evolve with the population growth and the corresponding needs for water and land. Population growth provides greater marketing opportunities, and in turn increases the demand for production agriculture. Agriculture needs the increasing marketing opportunities and the increasing population needs agriculture. However, in California, the two are competing for the same land and the same water. It is vital for the future of agriculture that we work together to maintain and preserve the farmland that we still have.

KING COUNTY GENERAL INFORMATION

County Seat	Hanford
County Population (1997)	118,204
Population per Square Mile	84.67
Total Assessed Value (1996)	\$3,953,722,580
Land Area (Square Miles)	1,396
Total Acres	893,440
Total Harvested crop acreage (1997)	628,309
Foreign Ownership (1995)	4,009 (acres)
Total Farmland (Acres – 1996)	761,266
Public Ownership of Land (Acres - 1990)	
Federal	20,912.69
State	1,684.99
County	5,556.25
Local Agencies	9,460.34

Agricultural production ranked 11th among California counties and 16th among U.S. counties.(Based on 1996 total value.)

Railroads - Santa Fe, Southern Pacific & San Joaquin Railroad.

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.

"Some family trees produce more nuts than timber" Arnold H. Glasgow

RAINFALL – HANFORD, CA

YEAR	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	TOTAL
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	1.40	3.32	0.85	0.10	0.00	7.98
1992-93	0.00	0.01	0.00	0.00	0.58	0.00	2.62	3.88	2.48	2.16	0.07	0.08	11.88
1993-94	0.26	0.00	0.00	0.24	0.24	0.68	0.66	1.45	1.02	0.70	0.69	0.00	5.94
1994-95	0.00	0.00	0.00	1.06	0.35	1.54	0.33	4.70	0.51	4.77	0.65	0.87	14.78
1995-96	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.79	2.55	2.15	0.89	0.16	9.13
1996-97	0.04	0.00	0.00	0.00	1.65	0.87	3.03	3.02	0.12	0.21	0.00	0.00	8.94
1997-98	0.00	0.00	0.06	0.09	1.96	1.80							
AVERAGE	0.05	0.01	0.03	0.19	0.35	0.86	1.09	1.40	1.35	1.30	0.74	0.23	7.49
50 YEAR AVERAGE RAINFALL													7.49



1998
AGRICULTURAL CROP REPORT
Kings County, California

CORN SILAGE

On the cover of this report is a photo of a cornfield with an inset photo of a silage chopper filling a truck with chopped corn. In order to more fully understand the significance of this process and its importance to Kings County Agriculture, it would be helpful to begin with a brief review of the historical background on corn. Corn is native to the Americas. Some archaeologists believe that evidence indicates corn was grown 7,000 years ago in the area that is now Mexico. The Aztec and Inca Indians grew corn they called "Ma-HZ". When Christopher Columbus returned home with corn from his journey to America it started the spread of corn in Europe. English settlers called it "maize" and thus originated its species name *Zea Mays*.

The process of silage making has been around for centuries. Silage is derived from the word "silo", the name given to enclosed cylindrical pits or towers used for grain storage. Silage or "ensiling" is the process of preserving feed for cattle by fermentation in the absence of oxygen. Hungarian and German farmers began making a type of silage called "sour hay" in the early 1800's. The first attempt to make silage from corn was made in Germany in 1861. European immigrants are credited with bringing the process to this country. The root crops grown in Europe for cattle feed that were brought to America would not grow here. This caused the farmers to look for alternate crops to feed their cattle. The use of corn for livestock feed became more widespread as a result. The first American silo was built in Maryland in 1876.

Corn silage is a crop of significant importance in Kings County because it is an excellent feed for lactating dairy cows. Corn silage utilizes the entire aboveground portion of the corn plant, thus providing a very good high-energy food necessary to their diet. It contains a source of crude protein and other mineral nutrients of importance to the health of dairy cows. Corn silage also provides more carotene (vitamin A) than found in alfalfa hay.

The varieties of corn grown for silage are significantly different than corn for human consumption. The most obvious difference is the height of the plants. Silage corn varieties can reach heights of 14 feet or more while "sweet corn" varieties may grow to about 7 feet. Depending upon the variety and growing conditions, corn grown for silage may take as little as 105 days or up to 125 days to reach maturity sufficient to make good quality silage.

Corn silage is an option for farmers faced with a growing season shortened by weather conditions. It is also used as a "double crop" where an early season annual crop is harvested and can be followed by a crop of corn silage. The 1998 growing season presented many challenges. Growers who planted silage corn were able to take advantage of its relatively short growing season. Because of this and its importance to the dairy industry, corn silage will remain a crop of economic importance to Kings County Agriculture.

Cover photos courtesy of Cal-Agro Seed Company Inc. - Goshen



Dennis F. Bray
Agricultural Commissioner
Sealer of Weights And Measures

COUNTY OF KINGS DEPARTMENT OF THE AGRICULTURAL COMMISSIONER SEALER OF WEIGHTS & MEASURES

680 N. Campus Drive, Suite B, Hanford, California, 93230, (559) 582-3211 ext. 2830

Secretary William J. Lyons, Jr.
California Department of Food and Agriculture
and
The Honorable Board of Supervisors
County of Kings, California

April 6, 1999

It is my pleasure to submit the 1998 Kings County Crop Report. This annual publication presents statistical information on the acreage, yield and gross value of Kings County agricultural products in accordance with Sections 2272 and 2279 of the California Food and Agricultural Code.

The 1998 total gross value of Kings County's number one industry was \$816,310,000. This represents a decrease of 7.9% from the 1997 gross production value (\$886,963,000).

Adverse El Nino weather brought near record rainfall, flooding and delayed planting causing a decline in most major crop categories compared to last year. This resulted in a \$94,285,000 (-29.6%) decrease to Field Crops, \$22,594,000 (-19.8%) to Fruit and Nut Crops, \$597,000 (-14%) to Apiary Products, \$3,824,000 (-3.3%) to Livestock & Poultry, and \$468,000 (-1.3%) to Vegetable Crops.

However, favorable market prices created an increase in values for two of the 1998 crop categories. Livestock and Poultry Products increased \$44,840,000 (+15.8%) and Seed Crops increased \$6,293,000 (+51.5%).

Milk remains this county's leading commodity for the third straight year with a total value of \$322,774,000 for 1998. Supported by strong prices and an increase in the number of milking cows the value of milk increased 16.4% from 1997, even with the effects of weather lowering milk production by 2.45% in 1998.

I want to emphasize that the numbers in this report are gross values only and in no way reflect the net income or loss to producers.

My thanks to Buzz Felleke, Agricultural and Standards Inspector III, and Ruben Arroyo, Deputy Commissioner in addition to other department staff who helped with the compilation and preparation of this report. Most of all, I wish to express my appreciation for the cooperation of all agricultural producers, contributing organizations and those individuals who provided necessary information for this report.

Respectfully Submitted,

Dennis F. Bray
Agricultural Commissioner
Sealer of Weights and Measures

TABLE OF CONTENTS

Summary Letter	1
County Administration/Ag Commissioner -Sealer Personnel	3
Field Crops	4
Seed Crops	5
Fruit and Nut Crops	6
Vegetable Crops	8
1998 Percent of Total Value	8
Inventory of Livestock and Poultry	9
Livestock and Poultry Products	10
Apiary Products	11
5 Year Comparison of Acreage and Crop Value	12
Kings County Ten Leading Commodities	13
Sustainable Agriculture Report	14
Exported Commodities	16
Kings County Trade Partners	17
Kings County Quick Facts	18
Land Use	19
Kings County General Information	20
Kings County Rainfall	21

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County Administrative Officer

Larry Spikes

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Dennis F. Bray

Assistant Agricultural Commissioner/Sealer

Tim Niswander

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Kaaren Anderson	Vince Evans	Michael Leoni
Stephanie Colvin	Buzz Felleke	Stevie McNeill
Bernard Costa	Mario Gutierrez	Alfredo Prieto
Jim Dodd	John Kendirjian	Lynda Schrupf
Arlene Dutschke		Robert Torrez

Agricultural and Standards Aides

Timmie Bressler Tom Chambers

Clerical

Diane O'Daniel

Linda Green Angela Davis-Hall Linda Lavars

FIELD CROPS

Crop	Year	Harvested Production		Total	Unit	Value	
		Acreage	Per Acre			Per Unit	Total
Barley	1998	9,709	1.45	14,078	Ton	\$93.85	\$1,321,000
	1997	18,707	1.01	18,894	Ton	\$130.00	\$2,456,000
Beans Dry a/	1998	8,074	0.97	7,832	Ton	\$681.00	\$5,333,000
	1997	5,043	0.96	4,841	Ton	\$523.00	\$2,532,000
Corn Silage	1998	42,179	24.36	1,027,480	Ton	\$18.84	\$19,358,000
	1997	30,266	17.81	539,037	Ton	\$22.16	\$11,945,000
Cotton							
Acala-Lint b/	1998	103,549	1.93	199,850	495 lb.	\$373.00	\$74,544,000
	1997	162,555	2.00	325,110	495 lb.	\$377.00	\$122,566,000
Acala-Seed	1998			82,438	Ton	\$200.00	\$16,488,000
	1997			134,041	Ton	\$187.00	\$25,066,000
Upland							
Non-Approved	1998	9,040	1.65	14,916	495 lb.	\$354.00	\$5,280,000
Non-Appv-Seed	1998			6,153	Ton	\$190.00	\$1,169,000
Cotton							
Pima-Lint b/	1998	43,740	1.52	66,485	495 lb.	\$499.00	\$33,176,000
	1997	56,245	2.26	127,114	495 lb.	\$514.00	\$65,336,000
Pima-Seed	1998			27,425	Ton	\$190.00	\$5,211,000
	1997			52,434	Ton	\$180.00	\$9,438,000
Hay							
Alfalfa	1998	47,024	5.66	266,156	Ton	\$98.98	\$26,344,000
	1997	39,312	7.88	309,779	Ton	\$119.00	\$36,864,000
Others c/	1998	3,226	3.12	10,065	Ton	\$72.86	\$733,000
	1997	2,033	3.55	7,217	Ton	\$93.00	\$671,000
Pasture							
Irrigated	1998	10,000			Acre	\$107.00	\$1,070,000
	1997	11,000			Acre	\$110.00	\$1,210,000
Range	1998	101,000			Acre	\$2.30	\$232,000
	1997	102,000			Acre	\$2.40	\$245,000
Alfalfa	1998	33,857			Acre	\$13.00	\$440,000
Stubble	1997	28,305			Acre	\$13.00	\$368,000
Safflower	1998	32,298	1.16	37,466	Ton	\$279.22	\$10,461,000
	1997	31,131	1.25	38,914	Ton	\$323.00	\$12,569,000

a/ Blackeye beans and other dry beans

b/ 495 lb. = 1 bale

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

FIELD CROPS

Crop	Year	Harvested Acreage	Production Per Acre	Total	Unit	Value	
						Per Unit	Total
Sugar Beets	1998	3,446	24.42	84,117	Ton	\$35.40	\$2,978,000
	1997	2,409	28.17	67,862	Ton	\$33.20	\$2,253,000
Wheat	1998	65,500	2.07	135,585	Ton	\$125.38	\$17,000,000
	1997	53,235	2.68	142,670	Ton	\$140.00	\$19,974,000
Other d/	1998	20,654					\$3,015,000
	1997	26,586					\$4,664,000
TOTAL	1998	533,296					\$223,872,000
	1997	568,827					\$318,157,000

d/ Includes corn grain, oat silage, screenings, straw, sudangrass, sorghum, wheat silage, and winter forage

SEED CROPS

Crop	Year	Harvested Acreage	Production Per Acre	Total	Unit	Value	
						Per Unit	Total
Alfalfa Certified	1998	18,558	410	7,738,686	lb.	\$1.82	\$13,848,000
	1997	12,810	475	6,084,750	lb.	\$1.45	\$8,823,000
Non-Cert.	1998	286	684	195,624	lb.	\$0.75	\$147,000
	1997	600	475	285,000	lb.	\$1.43	\$408,000
Total	1998	18,844		7,934,310	lb.		\$13,995,000
	1997	13,410		6,369,750	lb.		\$9,231,000
Barley	1998	603	3,200	1,929,600	lb.	\$0.06	\$116,000
Cotton, Cert.	1998	6,394		5,115	Ton	\$225.00	\$1,151,000
	1997	2,620		2,167	Ton	\$310.00	\$672,000
Wheat	1998	3,140	5,114	16,057,960	lb.	\$0.07	\$1,124,000
	1997	2,740	4,444	12,176,560	lb.	\$0.07	\$852,000
Other a/	1998	1,517					\$2,125,000
	1997	814					\$1,463,000
TOTAL	1998	30,498					\$18,511,000
	1997	19,584					\$12,218,000

a/ Asparagus, broccoli, carrots, flowers, lettuce, oats, onions, and safflower

FRUIT & NUT CROPS

Crop	Year	Bearing Acreage	Production Per Acre	Total	Unit	Value	
						Per Unit	Total
Almonds	1998	2,097	0.90	1,887	Ton	\$3,216.00	\$6,070,000
	1997	2,294	1.00	2,294	Ton	\$3,120.00	\$7,157,000
Almond Hulls	1998			1,000	Ton	\$82.00	\$82,000
	1997			802	Ton	\$91.00	\$73,000
Apples							
Fresh	1998			643	Ton	\$283.00	\$182,000
	1997			2,169	Ton	\$500.00	\$1,085,000
Processed	1998			1,950	Ton	\$40.00	\$78,000
	1997			1,272	Ton	\$70.00	\$89,000
Apples Total	1998	374	1.72	2,593	Ton		\$260,000
	1997	374	5.80	3,441	Ton		\$1,174,000
Apricots							
Fresh	1998			471	Ton	\$582.62	\$274,000
	1997			1,825	Ton	\$1,140.00	\$2,081,000
Processed	1998			151	Ton	\$66.00	\$10,000
	1997			150	Ton	\$250.00	\$38,000
Apricots Total	1998	327	1.44	622	Ton		\$284,000
	1997	375	4.87	1,975	Ton		\$2,119,000
Firewood a/	1998			500	Cord	\$95.00	\$48,000
	1997			450	Cord	\$105.00	\$47,000
Grapes							
Raisin Varieties							
Fresh	1998			1,300	Ton	\$900.00	\$1,170,000
		Dried		6,500	Ton	\$1,247.00	\$8,106,000
Crushed				10,116	Ton	\$185.00	\$1,871,000
Canned				800	Ton	\$245.00	\$196,000
Total		2,578		18,716			\$11,343,000
Grapes							
Raisin Varieties							
Fresh	1997			1,800	Ton	\$966.00	\$1,739,000
Dried				5,500	Ton	\$1,052.00	\$5,786,000
Crushed				8,900	Ton	\$185.00	\$1,647,000
Canned				1,500	Ton	\$248.00	\$372,000
Total		2,079		17,700			\$9,544,9000

a/ Includes all varieties

FRUIT & NUT CROPS

Crop	Year	Bearing Acreage	Production Per Acre	Total	Unit	Value		
						Per Unit	Total	
Table Varieties								
	1998	753	6.88	5,181	Ton	\$996.12	\$5,161,000	
	1997	632	8.67	5,479	Ton	\$753.00	\$4,126,000	
Wine Varieties								
	1998	1,539	11.96	18,406	Ton	\$226.00	\$4,160,000	
	1997	1,503	12.18	18,307	Ton	\$312.00	\$5,712,000	
Grapes Total								
	1998	4,870					\$20,664,000	
	1997	4,214					\$19,382,000	
Kiwifruit								
	1998	291	5.99	1,743	Ton	\$1,466.00	\$2,555,000	
	1997	297	6.30	1,871	Ton	\$1,075.00	\$2,011,000	
Nectarines								
	1998	1,982	7.80	15,460	Ton	\$703.82	\$10,881,000	
	1997	1,948	8.54	16,636	Ton	\$587.00	\$9,765,000	
Peaches								
Clingstone		1998	1,101	19.00	20,919	Ton	\$225.00	\$4,707,000
		1997	1,289	18.00	23,202	Ton	\$212.00	\$4,919,000
Freestone		1998	2,923	7.32	21,396	Ton	\$498.00	\$10,655,000
		1997	2,767	8.61	23,824	Ton	\$586.00	\$13,961,000
Peaches Total								
	1998	4,024					\$15,362,000	
	1997	4,056					\$18,880,000	
Pistachios								
	1998	5,670	1.53	8,675	Ton	\$2,073.00	\$17,983,000	
	1997	5,670	1.36	7,711	Ton	\$2,723.00	\$20,998,000	
Plums								
	1998	1,721	5.10	8,777	Ton	\$465.00	\$4,081,000	
	1997	1,981	6.50	12,877	Ton	\$620.00	\$7,983,000	
Pomegranates								
	1998	316	2.00	632	Ton	\$1,796.00	\$1,135,000	
	1997	340	8.20	2,788	Ton	\$1,354.00	\$3,775,000	
Walnuts								
	1998	6,719	1.50	10,079	Ton	\$1,046.00	\$10,543,000	
	1997	6,548	1.83	11,983	Ton	\$1,550.00	\$18,573,000	
Other b/								
	1998	626					\$1,703,000	
	1997	676					\$2,308,000	
TOTAL								
	1998	29,017					\$91,651,000	
	1997	28,773					\$114,245,000	

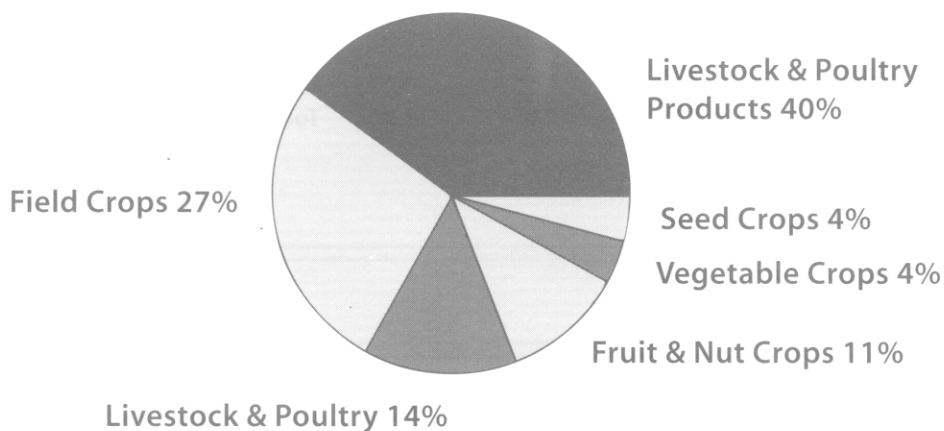
b/ Includes asian pears, cherries, jojobas, olives, pecans, persimmons, prunes, quince and strawberries

VEGETABLE CROPS

Crop	Year	Harvested Production			Value		
		Acreage	Per Acre	Total	Unit	Per Unit	Total
Broccoli							
Processed	1998	890	5.00	4,450	Ton	\$380.12	\$1,692,000
	1997	1,060	5.21	5,523	Ton	\$390.00	\$2,154,000
Cantaloupes							
	1998	1,323	11.63	15,386	Ton	\$291.44	\$4,484,000
	1997	2,036	12.28	25,002	Ton	\$215.00	\$5,375,000
Sweet Corn							
	1998	684	6.50	4,446	Ton	\$223.00	\$991,000
	1997	767	7.46	5,722	Ton	\$293.00	\$1,676,000
Tomatoes							
Fresh	1998	1,394	16.76	23,363	Ton	\$456.14	\$10,657,000
	1997	1,393	27.80	38,725	Ton	\$376.00	\$14,561,000
Processed	1998	3,263	44.40	144,877	Ton	\$53.91	\$7,810,000
	1997	2,100	34.54	72,534	Ton	\$51.14	\$3,709,000
Tomatoes Total							
	1998	4,657		168,241			\$18,467,000
	1997	3,493		111,259			\$18,270,000
Other a/							
	1998	6,714					\$11,957,000
	1997	3,769					\$10,602,000
TOTAL							
	1998	14,268					\$37,591,000
	1997	11,125					\$38,077,000

a/ Includes asparagus, cauliflower, garlic, eggplant, lettuce, misc. melons, peanuts, processed carrots, processed onions, processed garlic, squash and watermelons

1998 Percent of Total Value



INVENTORIES OF LIVESTOCK & POULTRY

Item	December 31, 1998 Number of Head	December 31, 1997 Number of Head
Cattle and Calves		
All	190,000	189,100
Dairy Cows 2 Years and Over	112,557	100,600
Cattle and Calves on Feed	3,900	3,800
other	135,000	133,000
Sheep and Lambs	12,642	12,768
Goats	3,500	3,200
Hogs and Pigs	17,500	16,450
Turkeys	582,944	662,753

LIVESTOCK & POULTRY

Item	Year	Production		Unit	Value	
		Number Of Head	Total Liveweight		Per Unit	Total
Breeding	1998					\$1,958,000
Stock a/	1997					\$1,755,000
Cattle an	1998	150,033	913,701	Cwt.	\$53.28	\$48,682,000
Calves	1997	158,689	966,416	Cwt.	\$53.00	\$51,220,000
Hogs and Pigs	1998	16,539	30,597	Cwt.	\$39.00	\$1,193,000
	1997	16,458	34,891	Cwt.	\$54.00	\$1,884,000
Sheep and Lambs	1998	12,642	13,401	Cwt.	\$77.00	\$1,032,000
	1997	12,768	13,534	Cwt.	\$100.00	\$1,353,000
Turkeys	1998	2,525,829	60,821,962	lb.	\$0.73	\$44,400,000
	1997	2,651,015	62,192,812	lb.	\$0.70	\$43,535,000
Other b/	1998					\$15,022,000
	1997					\$16,364,000
TOTAL	1998					\$112,287,000
	1997					\$116,111,000

a/ For all animals except horses

b/ Includes catfish, chickens, and goats

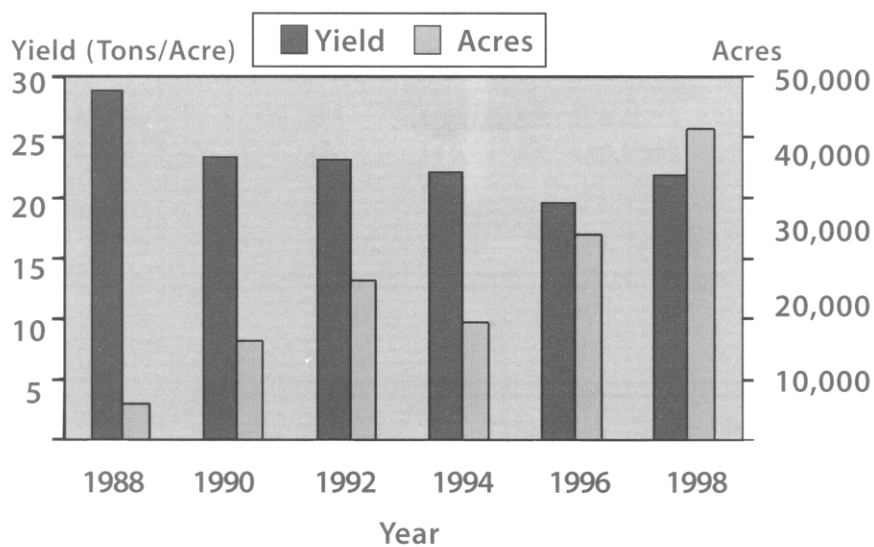
"The best fertilizer for a piece of land is the footprints of its owners" L.B. Johnson

LIVESTOCK & POULTRY PRODUCTS

Item	Year	Production	Unit	Per Unit	Total
Eggs-Chicken Market	1998	3,359,000	Doz.	\$0.78	\$2,620,000
	1997	3,011,666	Doz.	\$0.89	\$2,680,000
Manure	1998	437,036	Ton	\$7.50	\$3,278,000
	1997	391,628	Ton	\$10.00	\$3,916,000
Milk					
Market	1998	21,705,185	Cwt.	\$14.79	\$321,020,000
	1997	22,265,197	Cwt.	\$12.38	\$275,643,000
Mfg.	1998	93,658	Cwt.	\$12.92	\$1,210,000
	1997	79,266	Cwt.	\$11.27	\$893,000
Milk, Goats	1998	19,135	Cwt.	\$28.45	\$544,000
	1997	22,390	Cwt.	\$28.00	\$627,000
Milk Total	1998	21,817,978			\$322,774,000
	1997	22,366,853			\$277,163,000
Wool	1998	131,477	lb.	\$0.40	\$53,000*
	1997	132,787	lb.	\$0.95	\$126,000*
TOTAL	1998				\$328,725,000
	1997				\$283,885,000

*Not including wool incentive

Corn Silage

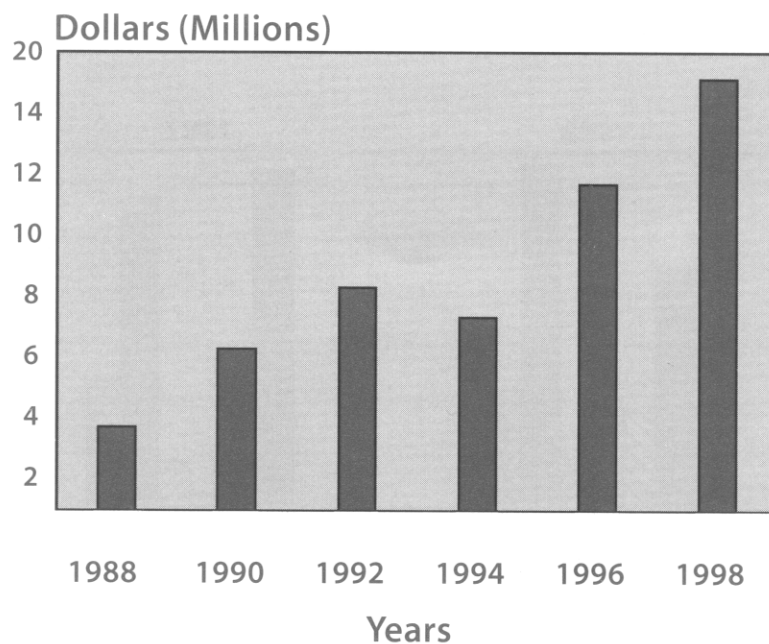


APIARY PRODUCTS

Item	Year	Total Production	Unit	Per Unit	Total
Apiary Products					
Honey	1998	3,039,576	lb.	\$0.64	\$1,945,000
	1997	3,922,016	lb.	\$0.70	\$2,745,000
Beeswax	1998	50,659	lb.	\$1.45	\$73,000
	1997	65,367	lb.	\$1.72	\$112,000
Pollination					
Seed Alfalfa	1998	42,906	Colonies	\$30.00	\$1,287,000
	1997	38,610	Colonies	\$27.00	\$1,042,000
Tree Fruit a/	1998	9,470	Colonies	\$36.88	\$349,000
	1997	10,144	Colonies	\$33.76	\$342,000
Cantaloupe	1998	1,238	Colonies	\$15.00	\$19,000
	1997	2,036	Colonies	\$14.00	\$29,000
TOTAL	1998				\$3,673,000
	1997				\$4,270,000

a/ almonds, apples, cherries and plums

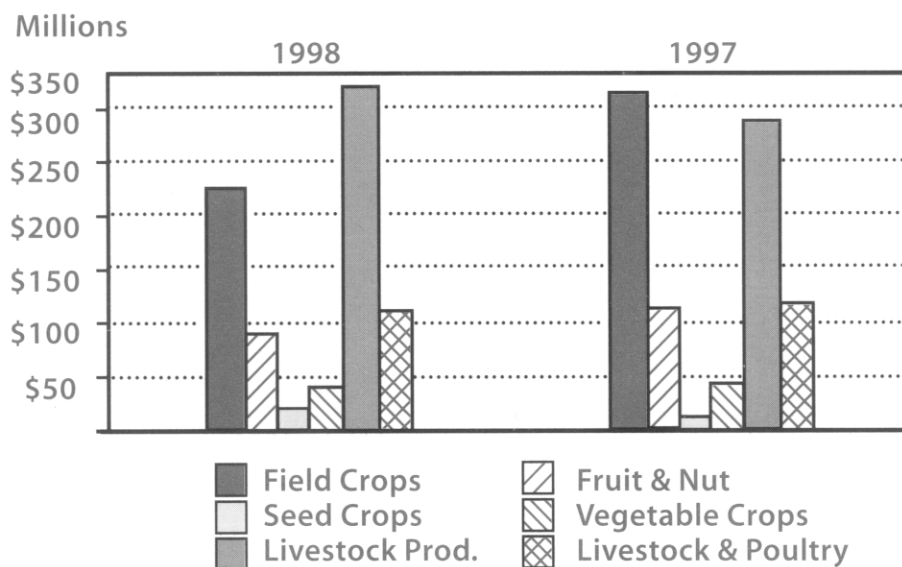
Corn Silage Total Production Value



FIVE YEAR COMPARISON OF ACREAGE & CROP VALUES

	1994	1995	1996	1997	1998
Apiary Products	2,281,000	2,801,000	3,776,000	4,270,000	3,673,000
Field Crops	339,361,000	350,118,000	330,146,000	318,157,000	223,872,000
Acreage	558,061	602,598	577,871	568,827	533,296
Fruit and Nut	84,343,000	105,133,000	97,968,000	114,245,000	91,651,000
Crops Acreage	27,586	29,631	28,766	28,773	29,017
Livestock and Poultry	105,980,000	99,199,000	112,813,000	116,111,000	112,287,000
Livestock and Poultry Products	222,794,000	231,211,000	283,059,000	283,885,000	328,725,000
Seed Crops	13,813,000	16,793,000	20,561,000	12,218,000	18,511,000
Acreage	19,651	23,935	25,042	19,584	30,498
Vegetable Crops	44,231,000	44,086,000	32,644,000	38,077,000	37,591,000
Acreage	18,743	21,004	16,585	11,125	14,268
TOTAL	\$812,803,000	\$849,341,000	\$880,967,000	\$886,963,000	\$816,310,000

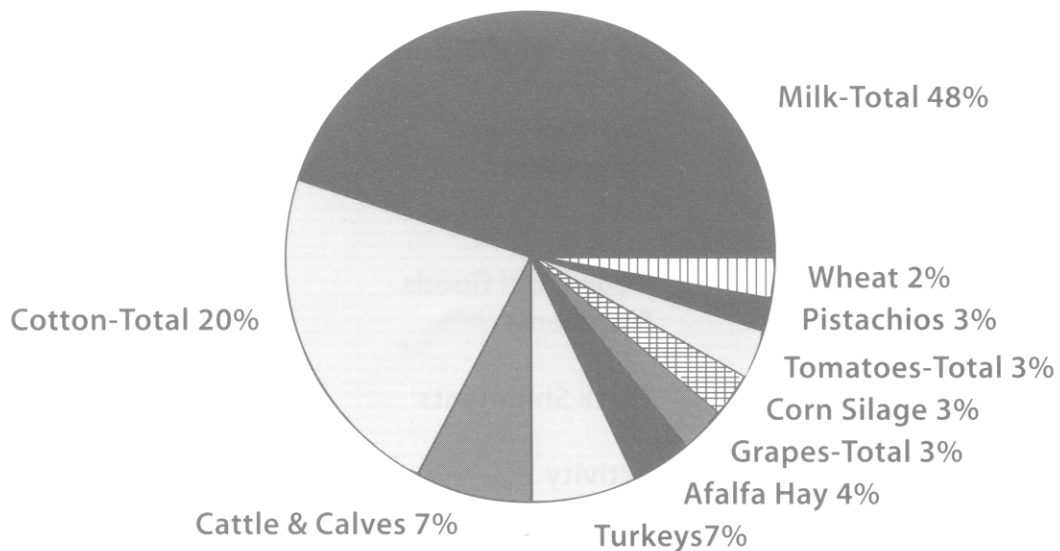
1998 and 1997 Production Value Comparisons



KINGS COUNTY'S TEN LEADING COMMODITIES

CROP	1998 RANK	1998 DOLLAR VALUE	1997 RANK	1996 RANK	1995 RANK
Milk, Total	1	\$322,774,000.00	1	1	2
Cotton, Total	2	\$135,587,000.00	2	2	1
Cattle and Calves	3	\$48,682,000.00	3	3	3
Turkeys	4	\$44,400,000.00	4	4	4
Alfalfa, Hay	5	\$26,344,000.00	5	5	8
Grapes, Total	6	\$20,664,000.00	8	6	5
Corn Silage	7	\$19,358,000.00	13	14	16
Tomatoes	8	\$18,467,000.00	11	9	9
Pistachios	9	\$17,983,000.00	6	12	7
Wheat	10	\$17,000,000.00	7	7	10
TOTAL		\$671,259,000.00			

Top Ten Commodities of Kings County for 1998



KINGS COUNTY SUSTAINABLE AGRICULTURAL REPORT

County Biological Control

Pest	Agent/Mechanism	Scope of Program
Puncture Vine <u>Tribulus terrestris</u>	Stem Mining Weevil <u>Microlarinus lypriformis</u> Seed Head Weevil <u>Microlarinus lareynii</u>	Generally Distributed Generally Distributed
Yellow Starthistle <u>Centaurea solstitialis</u>	Seed Head Weevil <u>Bangasternus orientalis</u> Gall Fly <u>Urophora sirunaseva</u> Hairy Weevil <u>Eustenopus villosus</u>	2 sites 1 sites 1 sites
Ash Whitefly <u>Siphoninus phillyreae</u>	Parasitic Wasp <u>Encarsia partenorea</u>	Generally Distributed
Silverleaf Whitefly <u>Bemisia argentifolii</u>	Parasitic Wasp <u>Eretmocerus sp.(M95104)</u> <u>Eretmocerus sp.(M95012)</u> <u>Eretmocerus mundus</u>	6 sites 6 sites 6 sites

County Pest Exclusion

Pest	Agent/Mechanism	Scope of Program
European Corn Borer <u>Ostrinia nubilalis</u>	Railroad Corn Shipments	867 Inspections
Gypsy Moth <u>Lymantria dispar</u>	Household Goods Shipments	22 Inspections
Various Pests	Truck Shipments	7,691 Inspections
Crops	Activity	Scope of Program
Export Commodities Export Seed	Origin Certification Field Inspections	1,001 issued 162 sites/19,474 acres

KINGS COUNTY SUSTAINABLE AGRICULTURAL REPORT

County Pest Eradication

Pest	Agent/Mechanism	Scope of Program
Pink Bollworm <u>Pectinophora gossypiella</u>	Mechanical/Host Free Period	156,329 Acres
Alligatorweed <u>Alternanthera philoxeroides</u>	Visual Inspection	1 Site Treated

County Pest Detection

Pest	Number of Traps	Type of Traps
Mediterranean Fruit Fly	259	Jackson Traps
Mexican Fruit Fly	60	McPhail Traps
Oriental Fruit Fly	30	Jackson Traps
Melon Fly	30	Jackson Traps
Gypsy Moth	74	Delta Traps
Japanese Beetle	70	Japanese Beetle Traps
European Corn Borer	15	Pherocon 1 c Traps
European Pine Shoot Moth	6	Pherocon II Traps
Khapra Beetle	240	Trogo Traps
Western Cherry Fruit Fly	18	Adult Monitoring Traps
Apple Maggot	96	Adult Monitoring Traps
Total Traps	863	



EXPORTED COMMODITIES

Commodities Exported From Kings County

Alfalfa Seed
Almonds
Apples
Asparagus
Carrot Seed
Cherries
Cotton Lint
Cotton Seed
Fresh Garlic



Garlic Plants
Garlic Seed
Grapes
Lemons
Lettuce
Kiwifruit
Nectarines
Nypa Forage

Onions
Onion Seed
Oranges
Peaches
Pears
Pistachios
Plums
Safflower Seed
Tomatoes

Export Trade Partners of Kings County in 1998

Argentina
Australia
Bangladesh
Belgium
Brazil
Bahrain
Canada
China
Colombia
Costa Rica
Cypress
Dominican Republic
Ecuador
Egypt
El Salvador



Greece
Guatemala
Honduras
Hong Kong
Hungary
India
Indonesia
Israel
Italy
Japan
Jordan
Korea
Luxemburg
Mexico
Morocco

Panama
Paraguay
Peru
Philippines
Portugal
Russia
Saudi Arabia
Singapore
Spain
Switzerland
Taiwan
Thailand
Turkey
United Arab Emirates
United Kingdom

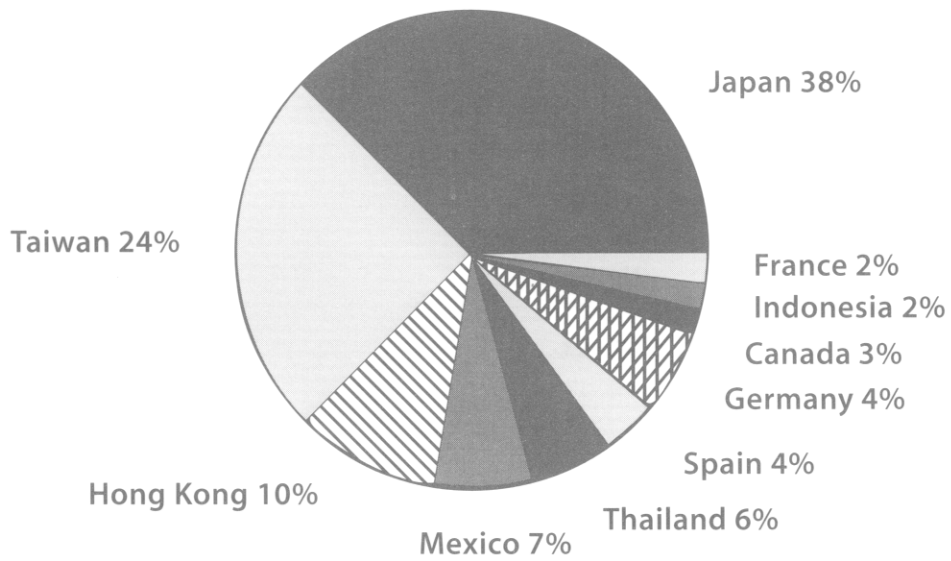
"Let us never forget that the cultivation of the earth is the most important labor of man" Webster

To Learn More About Kings County Exports, Visit Our Web Site
@ <http://www.kingsagcomm.com>

Export Trade Partners



Top Ten Export Partners of Kings County for 1998



KINGS COUNTY QUICK FACTS

Kings County Quick Facts

- 84% of the land area in Kings County is farmland
- 21.5 % of the total workforce in Kings County is in Agriculture (1998)
- 681 acres is the average farm size in Kings County
- The average age of a person that operates a farm in Kings County is about 50
- There are 1,187 farms in Kings County
- The most prolific milk producing cow the world has ever known, No. 289, lived in this county for 19 years and gave 54,070 gallons of milk - enough to fill more than eight 60-foot tanker trucks

Certified Farmer's Market

Hanford Certified Farmer's Market
116 W. Seventh Street
Hanford, CA 93230
Thursday's 4 P.M. to 7 P.M.
May thru October

Kings County Produce Normally Available At The Farmer's Market

Almonds	Cherry Tomatoes	Onions
Apples	Chili Peppers	Peanuts
Apricots	Cucumbers	Pears
Artichokes	Eggplant	Peaches
Asparagus	Figs	Persimmons
Bell Peppers	Fresh Cut Flowers	Pomogranates
Boysenberries	Garlic	Plums
Blue Berries	Grapes	Potatoes
Broccoli	Honey	Squash
Beans	Mixed Melons	Strawberries
Cantaloupe	Nectarines	Sweet Corn
Carrots	Okra	Tomatoes
Cherries	Olives	Walnuts
		Watermelon

To Learn More About Kings County Agriculture, Visit Our Web Site
@ <http://www.kingsagcomm.com>

LAND USE

Surrounding Counties	1997 Rank	1997 Gross Value	Total County Area Acres	Top Commodity	1997 Value	Acres or Number of Head
Fresno	1	\$3,435,227,500	4,080,000	Grapes	\$663,075,000	219,156
Tulare	2	\$2,900,892,000	3,158,400	Milk	\$718,739,000	305,319
Monterey	3	\$2,266,853,488	2,127,360	Lettuce	\$423,653,000	60,847
Kern	4	\$2,192,923,000	5,223,000	Grapes	\$496,287,000	77,239
Kings	12	\$886,963,000	893,440	Milk	\$277,163,000	189,000

Kings County Land Use Summary

Land Use Category	1994		1996		Acreage Change
	Acres	Percent	Acres	Percent	
Prime Farmland	144,816	16	143,003	16	-1,813
Farmland of Statewide Importance	446,226	50	435,166	49	-11,060
Unique Farmland	25,302	3	24,846	3	-456
Farmland of Local Importance	5,220	1	5,795	1	575
Grazing Land	234,247	26	244,500	27	*10,253
Urban and Built-up Land	26,465	3	27,308	3	843
Other Land	11,089	1	12,757	1	1,668
Water Area	75	0	65	0	-10
TOTAL ACRES	893,440		893,440		

* Dry farming land converted back to grazing land

The dynamics of this Valley continue to evolve with the population growth and the corresponding needs for water and land. Population growth provides greater marketing opportunities, and in turn increases the demand for production agriculture. Agriculture needs the increasing marketing opportunities and the increasing population for agriculture. However, in California, the two are competing for the same land and the same water. It is vital for the future of agriculture and it's populus that we work together to maintain and preserve the farmland that we still have.

KINGS COUNTY GENERAL INFORMATION

County Seat	Hanford
County Population (1998)	122,848
Population per Square Mile	87.62
Total Assessed Value (1998)	\$4,070,903,215
Land Area (Square Miles)	1,402
Total Acres	897,280
Total Harvested Crop Acreage (1998)	628,309
Foreign Ownership (1995)	4,009 (acres)
Total Farmland (Acres - 1998)	749,100
Public Ownership of Land (Acres - 1990)	
Federal	20,912.69
State	1,684.99
County	5,556.25
Local Agencies	9,460.34

Agricultural production ranked 12th among California counties and 16th among U.S. counties (based on 1997 total value).

Railroads - Santa Fe, Southern Pacific & San Joaquin Railroad.

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, CA

YEAR	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	TOTAL
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	1.40	3.32	0.85	0.10	0.00	7.98
1992-93	0.00	0.01	0.00	0.00	0.58	0.00	2.62	3.88	2.48	2.16	0.07	0.08	11.88
1993-94	0.26	0.00	0.00	0.24	0.24	0.68	0.66	1.45	1.02	0.70	0.69	0.00	5.94
1994-95	0.00	0.00	0.00	1.06	0.35	1.54	0.33	4.70	0.51	4.77	0.65	0.87	14.78
1995-96	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.79	2.55	2.15	0.89	0.16	9.13
1996-97	0.04	0.00	0.00	0.00	1.65	0.87	3.03	3.02	0.12	0.21	0.00	0.00	8.94
1997-98	0.00	0.00	0.00	0.06	0.09	1.96	1.80	2.00	4.05	2.60	1.68	1.31	15.55
1998-99	0.44	0.00	0.00	0.00	0.68	0.63	0.64						
AVERAGE	0.05	0.01	0.03	0.20	0.32	0.91	1.17	1.61	1.46	1.44	0.73	0.26	7.16

1999

AGRICULTURAL CROP REPORT



Kings County, California

WHEAT

Wheat has played an important role in the development of civilization. It has been found in prehistoric habitations of man as early as 6700 B.C., however, the geographical, historical, and biological origin is unknown. Like all small grains, wheat began as a wild grass and therefore is classified in the grass tribe *Hordeae*, genus *Triticum*. Over time some wild grasses evolved into a type of wheat called emmer. Mutations of emmer resulted in durum, poulard, and polish wheat. Wheat was cultivated throughout prehistoric Europe, and was one of the most valuable cereals of ancient Persia, Greece, and Egypt. The cultivation of wheat in the United States began when many varieties were introduced from foreign countries in the early 17th century along the Atlantic Coast and then moved westward as the country was settled.

Throughout the year wheat is harvested in some part of the world. The best quality wheats are produced in areas where the winters are cold, the summers comparatively hot, and the precipitation moderate. High rainfall, especially when accompanied by high temperatures, is unfavorable for wheat because the conditions favor the development of wheat diseases. Mature wheat plants range in height from 2 to 4 feet depending on available moisture, nutrients, and the variety. There are six major classes of wheat; hard red spring, hard red winter, soft red winter, hard white, soft white, and durum. California has an average yearly production of over 1 million tons of wheat, and its domestic milling capacity is fourth largest in the United States. As a result of this milling capacity, wheat is railed in from other states to be processed. The United States, with 69 million tons of wheat per year, is one of the top 4 producing countries in the world. The U.S. also exports over half of its wheat crop.

Wheat has many diverse uses. It is processed into flour, pasta, cereal, and livestock feed. Bread flours are derived from milled hard wheat, while milled red/white soft wheat results in cake, pastry, and family flour. Wheat flour is an excellent source of complex carbohydrates, dietary fiber, and contains B-vitamins, calcium, floacin, iron, magnesium, phosphorus, potassium zinc, and other trace elements. The harder the wheat the higher the amount of protein in the flour. Durum, from the Latin word meaning "hard", is the hardest wheat known to man. The durum wheat grown in the U.S. is used exclusively for pasta. Buying American-made pasta ensures quality, as U.S. manufacturers adhere to the strictest ingredients and manufacturers inspections of any country in the world. With people consuming about 143 pounds of wheat each year, it is easy to see why it's such an important crop.

In Kings County, wheat production acreage has increased in the last decade. In 1999, the reported acreage was 62,000. Durum and red wheat varieties make up the majority of the acreage. This increased acreage trend can be attributed in part to economics and water availability. As one crop becomes more profitable to produce over another, acreage inevitably increases in the more profitable crop. Additionally, as growers are facing reductions in water allocations, some are switching to alternate crops that use less water to produce, such as wheat.



Dennis F. Bray
Agricultural Commissioner
Sealer of Weights And Measures

COUNTY OF KINGS DEPARTMENT OF THE AGRICULTURAL COMMISSIONER SEALER OF WEIGHTS & MEASURES

Secretary William J. Lyons, Jr.
California Department of Food and Agriculture
and
The Honorable Board of Supervisors
County of Kings, California

April 18, 2000

It is my pleasure to submit the 1999 Kings County Crop Report. This annual publication presents statistical information on the acreage, yield and gross value of Kings County agricultural products in accordance with Sections 2272 and 2279 of the California Food and Agricultural Code.

The 1999 total gross value of Kings County's number one industry was \$901,614,000, an all time high. This represents an increase of 10.4% from the 1998 gross production value (\$816,310,000).

In 1999, La Nina weather with its mild winter, long spring, and moderate summer contributed to higher yields in many crops. This was a dramatic change from the adverse El Nino weather of 1998. As a result Field Crops increased \$86,662,000 (+38.7%), Seed Crops \$11,617,000 (+62.8%), and Apiary Products \$1,186,000 (+32.3%). Favorable market prices increased the value of Livestock and Poultry to \$1,960,000 (1.7%).

However, unfavorable market prices lead to a decrease in values for three of the 1999 crop categories. Livestock and Poultry Products decreased \$5,966,000 (-1.8%), Fruit and Nut Crops \$6,239,000 (-6.8%), and Vegetable Crops \$3,903,000 (-10.4%).

Milk remains this county's leading commodity, for the fourth straight year, with a value of \$317,473,000 in 1999. This represents a slight decline in value of 1.7%. This decline reflects a decrease in the market price paid to the dairy farmers.

I want to emphasize that the numbers in this report are gross values only and in no way reflect the net income or loss to producers.

My thanks to Buzz Felleke, Agricultural and Standards Inspector III, and Ruben Arroyo, Deputy Commissioner in addition to other department staff who helped with the compilation and preparation of this report. Most of all, I wish to express my appreciation for the cooperation of all agricultural producers, contributing organizations and those individuals who provided necessary information for this report.

Respectfully Submitted,

Dennis F. Bray
Agricultural Commissioner
Sealer of Weights and Measures

TABLE OF CONTENTS

Summary Letter	1
County Administration/Ag Commissioner -Sealer Personnel	3
Field Crops	4
Seed Crops	5
Fruit and Nut Crops	6
Vegetable Crops	8
1999 Percent of Total Value	8
Inventory of Livestock and Poultry	9
Livestock and Poultry Products	10
Apiary Products	11
5 Year Comparison of Acreage and Crop Value	12
Kings County Ten Leading Commodities	13
Sustainable Agriculture Report	14
Exported Commodities	16
Kings County Trade Partners	17
Kings County Quick Facts	18
Land Use	19
Kings County General Information.....	20
Kings County Rainfall	21

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FIELD CROPS

Crop	Year	Harvested Production		Total	Unit	Value	
		Acreage	Per Acre			Per Unit	Total
Barley	1999	9,115	0.90	8,203	Ton	\$104.05	\$854,000
	1998	9,709	1.45	14,078	Ton	\$93.85	\$1,321,000
Beans Dry a/	1999	8,268	1.05	8,681	Ton	\$503.00	\$4,367,000
	1998	8,074	0.97	7,832	Ton	\$681.00	\$5,333,000
Corn Silage	1999	47,717	25.95	1,238,256	Ton	\$16.83	\$20,840,000
	1998	42,179	24.36	1,027,480	Ton	\$18.84	\$19,358,000
Cotton							
Acala-Lint b/	1999	66,117	2.75	181,822	495 lb.	\$356.82	\$64,878,000
	1998	103,549	1.93	199,850	495 lb.	\$373.00	\$74,544,000
Acala-Seed	1999			75,067	Ton	\$155.00	\$11,365,000
	1998			82,438	Ton	\$200.00	\$16,488,000
Cotton, Upland							
Non-Approved	1999	39,483	2.11	83,309	495 lb.	\$351.75	\$29,304,000
	1998	9,040	1.65	14,916	495 lb.	\$354.00	\$5,280,000
Non-Appv-Seed	1999			34,390	Ton	\$155.00	\$5,330,000
	1998			6,153	Ton	\$190.00	\$1,169,000
Cotton							
Pima-Lint b/	1999	93,675	2.22	207,959	495 lb.	\$428.89	\$89,191,000
	1998	43,740	1.52	66,485	495 lb.	\$499.00	\$33,176,000
Pima-Seed	1999			85,783	Ton	\$133.00	\$11,409,000
	1998			27,425	Ton	\$190.00	\$5,211,000
Hay							
Alfalfa	1999	50,193	6.46	324,244	Ton	\$95.32	\$30,907,000
	1998	47,024	5.66	266,156	Ton	\$98.98	\$26,344,000
Others c/	1999	1,917	3.70	7,094	Ton	\$68.27	\$484,000
	1998	3,226	3.12	10,065	Ton	\$72.86	\$733,000
Pasture							
Irrigated	1999	11,000			Acre	\$112.00	\$1,232,000
	1998	10,000			Acre	\$107.00	\$1,070,000
Range	1999	102,000			Acre	\$2.40	\$245,000
	1998	101,000			Acre	\$2.30	\$232,000
Alfalfa	1999	28,096			Acre	\$14.00	\$393,000
Stubble	1998	33,857			Acre	\$13.00	\$440,000
Safflower	1999	16,502	1.22	20,132	Ton	\$296.00	\$5,959,000
	1998	32,298	1.16	37,466	Ton	\$279.22	\$10,461,000

a/ Blackeye beans and other dry beans

b/ 495 lb. = 1 bale

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

FIELD CROPS

Crop	Year	Harvested Acreage	Production		Unit	Value	
			Per Acre	Total		Per Unit	Total
Sugar Beets	1999	4,987	24.11	120,227	Ton	\$33.50	\$4,028,000
	1998	3,446	24.42	84,117	Ton	\$35.40	\$2,978,000
Wheat	1999	62,000	2.26	140,120	Ton	\$115.23	\$16,146,000
	1998	65,500	2.07	135,585	Ton	\$125.38	\$17,000,000
Other d/	1999	68,290					\$13,602,000
	1998	20,654					\$3,015,000
TOTAL	1999	609,360					\$310,534,000
	1998	533,296					\$223,872,000

d/ Includes corn grain, oat silage, screenings, straw, sudangrass, sorghum, wheat silage, and winter forage

SEED CROPS

Crop	Year	Harvested Acreage	Production		Unit	Value	
			Per Acre	Total		Per Unit	Total
Alfalfa Certified	1999	20,223	756	15,288,588	lb.	\$1.66	\$25,379,000
	1998	18,558	410	7,738,686	lb.	\$1.82	\$13,848,000
Non-Cert.	1999	529	824	435,896	lb.	\$1.62	\$706,000
	1998	286	684	195,624	lb.	\$0.75	\$147,000
Total	1999	20,752		15,716,395	lb.		\$26,085,000
	1998	18,844		7,934,310	lb.		\$13,995,000
Cotton, Cert.	1999	3,338		2,420	Ton	\$231.00	\$559,000
	1998	6,394		5,115	Ton	\$225.00	\$1,151,000
Wheat	1999	3,168	6,678	21,155,904	lb.	\$0.05	\$1,058,000
	1998	3,140	5,114	16,057,960	lb.	\$0.07	\$1,124,000
Other a/	1999	743					\$2,426,000
	1998	1,517					\$2,125,000
TOTAL	1999	28,001					\$30,128,000
	1998	30,498					\$18,511,000

a/ Asparagus, broccoli, carrots, flowers, lettuce, oats, onions, and safflower

FRIUT & NUT CROPS

Crop	Year	Bearing Acreage	Production		Unit	Value	
			Per Acre	Total		Per Unit	Total
Almonds	1999	1,959	0.90	1,763	Ton	\$1,595.73	\$2,813,000
	1998	2,097	0.90	1,887	Ton	\$3,216.00	\$6,070,000
Almond Hulls	1999			1,293	Ton	\$68.00	\$88,000
	1998			1,000	Ton	\$82.00	\$82,000
Apples							
Fresh	1999			3,680	Ton	\$479.00	\$1,763,000
	1998			643	Ton	\$283.00	\$182,000
Processed	1999			1,706	Ton	\$32.00	\$55,000
	1998			1,950	Ton	\$40.00	\$78,000
Apples Total	1999	517	7.12	5,386	Ton		\$1,818,000
	1998	374	1.72	2,593	Ton		\$260,000
Apricots							
Fresh	1999			915	Ton	\$1,166.67	\$1,068,000
	1998			471	Ton	\$582.62	\$274,000
Processed	1999			392	Ton	\$126.00	\$49,000
	1998			151	Ton	\$66.00	\$10,000
Apricots Total	1999	330	3.96	1,307	Ton		\$1,117,000
	1998	327	1.44	622	Ton		\$284,000
Firewood a/	1999			1,500	Cord	\$90.00	\$135,000
	1998			500	Cord	\$95.00	\$48,000
Grapes							
Raisin Varieties							
Fresh	1999			1,500	Ton	\$950.00	\$1,425,000
				7,500	Ton	\$1,228.00	\$9,210,000
Crushed				2,067	Ton	\$200.00	\$413,000
Canned				35	Ton	\$245.00	\$9,000
Total		2,578		11,102			\$11,057,000
Grapes							
Raisin Varieties							
Fresh	1998			1,300	Ton	\$900.00	\$1,170,000
				6,500	Ton	\$1,247.00	\$8,106,000
Crushed				10,116	Ton	\$185.00	\$1,871,000
Canned				800	Ton	\$245.00	\$196,000
Total		2,578		18,716			\$11,343,000

a/ Includes all varieties

FRUIT & NUT CROPS

Crop	Year	Bearing Acreage	Production Per Acre	Total	Unit	Value	
						Per Unit	Total
Table Varieties							
Crushed	1999	494	9.86	4,871	Ton	\$184.00	\$896,000
Fresh	1999	337	8.58	2,891	Ton	\$952.00	\$2,753,000
	1998	753	6.88	5,181	Ton	\$996.12	\$5,161,000
Wine Varieties							
	1999	1,769	15.81	27,968	Ton	\$208.00	\$5,817,000
	1998	1,539	11.96	18,406	Ton	\$226.00	\$4,160,000
Grapes Total	1999	5,178					\$20,523,000
	1998	4,870					\$20,664,000
Nectarines	1999	1,703	7.07	12,040	Ton	\$492.71	\$5,932,000
	1998	1,982	7.80	15,460	Ton	\$703.82	\$10,881,000
Peaches							
Clingstone	1999	1,214	17.00	20,638	Ton	\$233.00	\$4,809,000
	1998	1,101	19.00	20,919	Ton	\$225.00	\$4,707,000
Freestone	1999	2,613	6.20	16,201	Ton	\$489.48	\$7,930,000
	1998	2,923	7.32	21,396	Ton	\$498.00	\$10,655,000
Peaches Total	1999	3,827					\$12,739,000
	1998	4,024					\$15,362,000
Pistachios	1999	5,683	1.30	7,388	Ton	\$2,902.29	\$21,442,000
	1998	5,670	1.53	8,675	Ton	\$2,073.00	\$17,983,000
Plums	1999	1,736	4.30	7,465	Ton	\$394.00	\$2,941,000
	1998	1,721	5.10	8,777	Ton	\$465.00	\$4,081,000
Pomegranates	1999	945	2.53	2,391	Ton	\$1,235.45	\$2,954,000
	1998	316	2.00	632	Ton	\$1,796.00	\$1,135,000
Walnuts	1999	6,755	1.73	11,686	Ton	\$872.17	\$10,192,000
	1998	6,719	1.50	10,079	Ton	\$1,046.00	\$10,543,000
Other b/	1999	1,125					\$2,718,000
	1998	626					\$1,703,000
TOTAL	1999	29,758					\$85,412,000
	1998	29,017					\$91,651,000

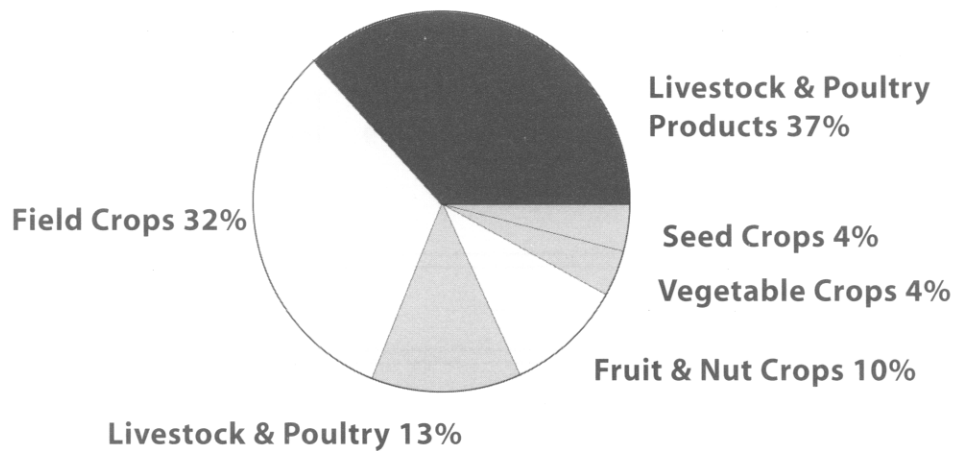
b/ Includes asian pears, cherries, jojobas, kiwifruit, olives, pecans, persimmons, prunes, quince, and strawberries

VEGETABLE CROPS

Crop	Year	Harvested Production			Unit	Value	
		Acreage	Per Acre	Total		Per Unit	Total
Broccoli							
Processed	1999	988	2.25	2,223	Ton	\$368.35	\$819,000
	1998	890	5.00	4,450	Ton	\$380.12	\$1,692,000
Cantaloupes							
	1999	805	13.21	10,634	Ton	\$175.10	\$1,862,000
	1998	1,323	11.63	15,386	Ton	\$291.44	\$4,484,000
Carrots							
All	1999	1,953	16.40	32,029	Ton	\$94.75	\$3,035,000
Tomatoes							
Fresh	1999	1,218	16.43	20,012	Ton	\$190.68	\$3,816,000
	1998	1,394	16.76	23,363	Ton	\$456.14	\$10,657,000
Processed	1999	8,217	37.00	304,029	Ton	\$55.00	\$16,722,000
	1998	3,263	44.40	144,877	Ton	\$53.91	\$7,810,000
Tomatoes Total	1999	9,435		324,041			\$20,538,000
	1998	4,657		168,241			\$18,467,000
Other a/	1999	4,608					\$7,434,000
	1998	6,714					\$11,957,000
<hr/>							
TOTAL	1999	17,789					\$33,688,000
	1998	14,268					\$37,591,000

a/ Includes asparagus, cauliflower, garlic, eggplant, lettuce, misc. melons, peanuts, processed onions,

1999 Percent of Total Value



INVENTORIES OF LIVESTOCK & POULTRY

Item	January 1, 1999 Number of Head	January 1, 1998 Number of Head
Cattle and Calves		
All	192,000	190,000
Dairy Cows 2 Years and Over	124,688	112,557
Cattle and Calves on Feed	3,980	3,900
other	137,000	135,000
Sheep and Lambs	11,914	12,642
Goats	2,500	3,500
Hogs and Pigs	11,700	16,539
Turkeys	586,103	582,944

LIVESTOCK & POULTRY

Item	Year	Production		Unit	Per Unit	Value
		Number Of Head	Total Liveweight			Total
Breeding Stock a/	1999					\$1,890,000
	1998					\$1,958,000
Cattle and Calves	1999	147,130	896,022	Cwt.	\$57.00	\$51,073,000
	1998	150,033	913,701	Cwt.	\$53.28	\$48,682,000
Hogs and Pigs	1999	11,700	23,985	Cwt.	\$35.00	\$839,000
	1998	16,539	30,597	Cwt.	\$39.00	\$1,193,000
Sheep and Lambs	1999	11,914	14,416	Cwt.	\$83.00	\$1,197,000
	1998	12,642	13,401	Cwt.	\$77.00	\$1,032,000
Turkeys	1999	2,344,411	61,423,568	lb.	\$0.75	\$46,068,000
	1998	2,525,829	60,821,962	lb.	\$0.73	\$44,400,000
Other b/	1999					\$13,180,000
	1998					\$15,022,000
TOTAL	1999					\$114,247,000
	1998					\$112,287,000

a/ For all animals except horses

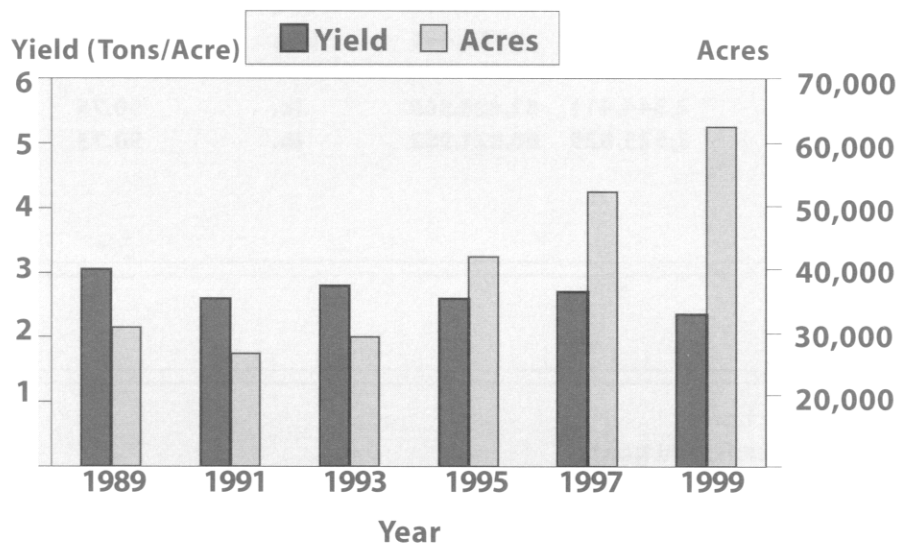
b/ Includes catfish, chickens, and goats

LIVESTOCK & POULTRY PRODUCTS

Item	Year	Production	Unit	Per Unit	Total
Eggs-Chicken Market	1999	3,434,000	Doz.	\$0.78	\$2,679,000
	1998	3,359,000	Doz.	\$0.78	\$2,620,000
Manure	1999	426,607	Ton	\$6.00	\$2,560,000
	1998	437,036	Ton	\$7.50	\$3,278,000
Milk					
Market	1999	23,903,904	Cwt.	\$13.23	\$316,249,000
	1998	21,705,185	Cwt.	\$14.79	\$321,020,000
Mfg.	1999	58,772	Cwt.	\$11.77	\$692,000
	1998	93,658	Cwt.	\$12.92	\$1,210,000
Milk, Goats	1999	17,025	Cwt.	\$31.27	\$532,000
	1998	19,135	Cwt.	\$28.45	\$544,000
Milk Total	1999	23,979,701			\$317,473,000
	1998	21,817,978			\$322,774,000
Wool	1999	123,905	lb.	\$0.38	\$47,000*
	1998	131,477	lb.	\$0.40	\$53,000*
TOTAL	1999				\$322,759,000
	1998				\$328,725,000

* Not including wool incentive

Wheat

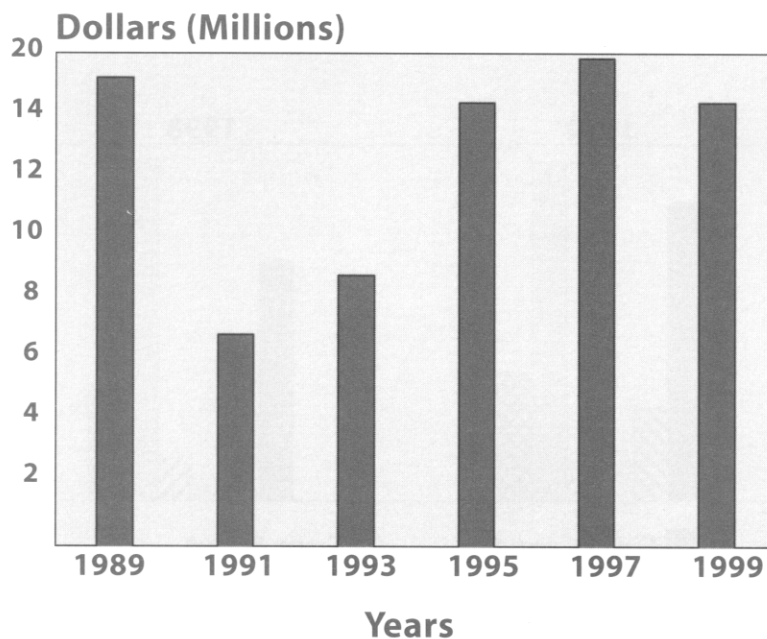


APIARY PRODUCTS

Item	Year	Total Production	Unit	Per Unit	Total
Apiary Products					
Honey	1999	5,078,146	lb.	\$0.50	\$2,539,000
	1998	3,039,576	lb.	\$0.64	\$1,945,000
Beeswax	1999	84,636	lb.	\$1.05	\$89,000
	1998	50,659	lb.	\$1.45	\$73,000
Pollination					
Seed Alfalfa	1999	60,759	Colonies	\$30.00	\$1,823,000
	1998	42,906	Colonies	\$30.00	\$1,287,000
Tree Fruit a/	1999	9,021	Colonies	\$40.00	\$361,000
	1998	9,470	Colonies	\$36.88	\$349,000
Cantaloupe	1999	1,207	Colonies	\$20.00	\$24,000
	1998	1,238	Colonies	\$15.00	\$19,000
Vegetable Seed	1999	1,260	Colonies	\$18.00	\$23,000
TOTAL	1999				\$4,859,000
	1998				\$3,673,000

a/ almonds, apples, cherries, and plums

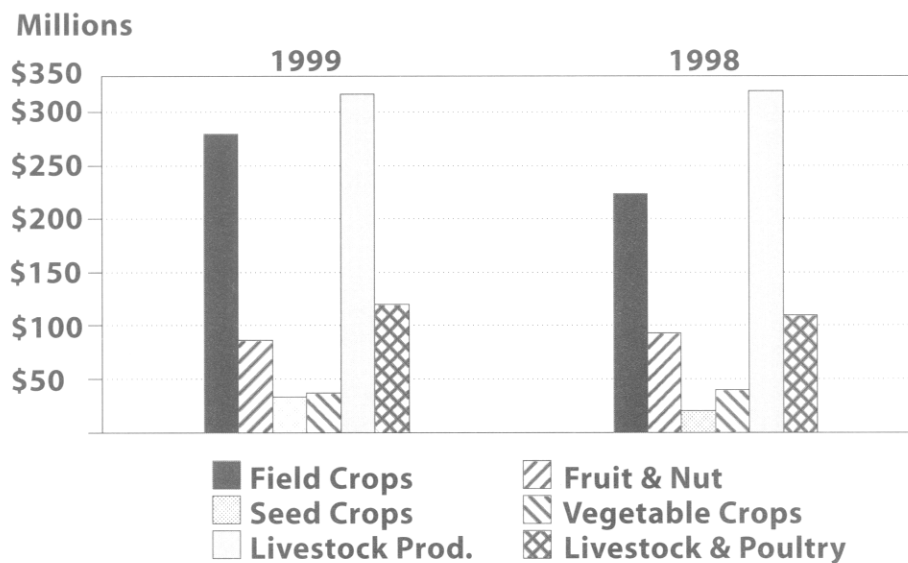
Wheat Total Production Value



FIVE YEAR COMPARISON OF ACREAGE & CROP VALUES

	1995	1996	1997	1998	1999
Apiary Products	2,801,000	3,776,000	4,270,000	3,673,000	4,859,000
Field Crops	350,118,000	330,146,000	318,157,000	223,872,000	310,534,000
Acres	602,598	577,871	568,827	533,296	609,359
Fruit and Nut	105,133,000	97,968,000	114,245,000	91,651,000	85,412,000
Crops Acres	29,631	28,766	28,773	29,017	29,758
Livestock and Poultry	99,199,000	112,813,000	116,111,000	112,287,000	114,247,000
Livestock and Poultry Products	231,211,000	283,059,000	283,885,000	328,725,000	322,759,000
Seed Crops	16,793,000	20,561,000	12,218,000	18,511,000	30,115,000
Acres	23,935	25,042	19,584	30,498	28,001
Vegetable Crops	44,086,000	32,644,000	38,077,000	37,591,000	33,688,000
Acres	21,004	16,585	11,125	14,268	11,125
TOTAL	\$849,341,000	\$880,967,000	\$886,963,000	\$816,310,000	\$901,614,000

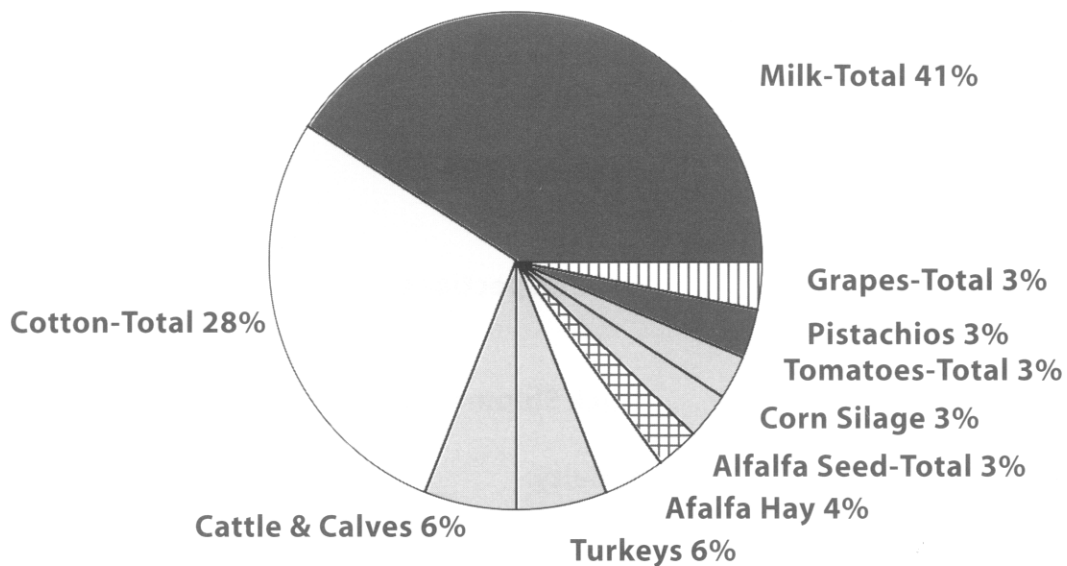
1999 and 1998 Production Value Comparisons



KINGS COUNTY'S TEN LEADING COMMODITIES

CROP	1999 RANK	1999 DOLLAR VALUE	1998 RANK	1997 RANK	1996 RANK
Milk, Total	1	\$317,473,000	1	1	1
Cotton, Total	2	\$211,477,000	2	2	2
Cattle and Calves	3	\$51,073,000	3	3	3
Turkeys	4	\$46,067,000	4	4	4
Alfalfa, Hay	5	\$30,907,000	5	5	5
Alfalfa Seed, Total	6	\$26,085,000	11	12	15
Pistachios	7	\$21,442,000	9	6	12
Corn Silage	8	\$20,840,000	7	13	14
Tomatoes	9	\$20,538,000	8	11	9
Grapes, Total	10	\$20,523,000	6	8	6
TOTAL		\$766,348,000			

Top Ten Commodities of Kings County for 1999



"Agriculture is the earliest and most honorable of arts" Rousseau

KINGS COUNTY SUSTAINABLE AGRICULTURAL REPORT

County Biological Control

Pest	Agent/Mechanism	Scope of Program
Puncture Vine <u>Tribulus terrestris</u>	Stem Mining Weevil <u>Microlarinus lypriformis</u> Seed Head Weevil <u>Microlarinus lareynii</u>	Generally Distributed Generally Distributed
Yellow Starthistle <u>Centaurea solstitialis</u>	Seed Head Weevil <u>Bangasternus orientalis</u> Gall Fly <u>Urophora sirunaseva</u> Hairy Weevil <u>Eustenopus villosus</u>	2 sites 1 sites 3 sites
Ash Whitefly <u>Siphoninus phillyreae</u>	Parasitic Wasp <u>Encarsia partenorea</u>	Generally Distributed
Silverleaf Whitefly <u>Bemisia argentifolii</u>	Parasitic Wasp <u>Eretmocerus sp.(M95104)</u> <u>Eretmocerus sp.(M95012)</u> <u>Eretmocerus mundus</u>	6 sites 6 sites 6 sites

County Pest Exclusion

Pest	Agent/Mechanism	Scope of Program
European Corn Borer <u>Ostrinia nubilalis</u>	Railroad Corn Shipments	1,792 Inspections
Gypsy Moth <u>Lymantria dispar</u>	Household Goods Shipments	13 Inspections
Red Imported Fire Ant <u>Solenopsis invicta</u>	Field Inspections	386 Traps
Various Pests	Truck Shipments	170,000 Inspections
Crops	Activity	Scope of Program
Export Commodities Export Seed	Origin Certification Field Inspections	973 Issued 145 Sites/23,156 Acres

KINGS COUNTY SUSTAINABLE AGRICULTURAL REPORT

County Pest Eradication

Pest	Agent/Mechanism	Scope of Program
Pink Bollworm <u>Pectinophora gossypiella</u>	Mechanical/Host Free Period	199,275 Acres
Alligatorweed <u>Alternanthera philoxeroides</u>	Visual Inspection	2 Sites Treated

County Pest Detection

Pest	Number of Traps	Type of Traps
Mediterranean Fruit Fly	260	Jackson Traps
Mexican Fruit Fly	60	McPhail Traps
Oriental Fruit Fly	30	Jackson Traps
Melon Fly	30	Jackson Traps
Gypsy Moth	74	Delta Traps
Japanese Beetle	70	Japanese Beetle Traps
European Corn Borer	15	Pherocon 1 c Traps
European Pine Shoot Moth	6	Pherocon II Traps
Khapra Beetle	240	Trogo Traps
Western Cherry Fruit Fly	12	Adult Monitoring Traps
Apple Maggot	74	Adult Monitoring Traps
Olive Fruit Fly	36	Adult Monitoring Traps
Glassy-Winged Sharpshooter	12	Adult Monitoring Traps
Total Traps	919	



EXPORTED COMMODITIES

Commodities Exported From Kings County

**Alfalfa Seed
Almonds
Apples
Asparagus Seed
Broccoli
Carrot Seed
Cherries**

**Cotton Lint
Cotton Seed
Fresh Garlic
Garlic Plants
Garlic Seed
Lettuce
Kiwifruit**

**Nectarines
Nypa Forage
Onions
Onion Seed
Peaches
Pistachios
Plums
Pomegranates**

Export Trade Partners of Kings County in 1999

**Argentina
Australia
Bangladesh
Belgium
Brazil
Canada
China
Colombia
Costa Rica
Dominican Republic
Ecuador
Egypt
El Salvador
Fiji
France**

**Germany
Greece
Guatemala
Holland
Hong Kong
India
Indonesia
Israel
Italy
Japan
Korea
Lebanon
Mexico
Netherlands
New Zealand**

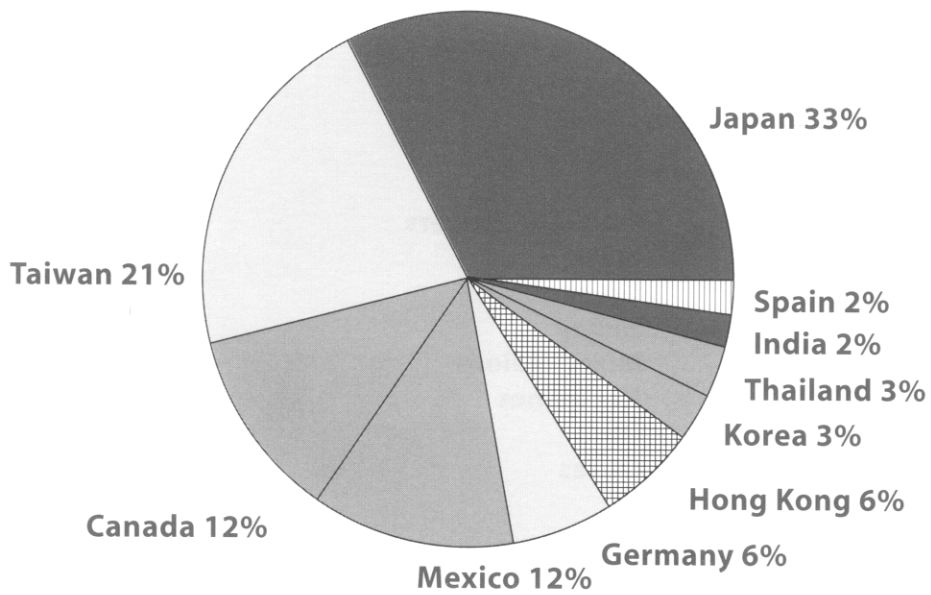
**Paraguay
Peru
Portugal
Puerto Rico
Saudi Arabia
Spain
Switzerland
Taiwan
Thailand
Turkey
United Arab Emirates
United Kingdom
Venezuela
Zimbabwe**

"To plow is to pray; to plant is to prophesy; and the harvest answers and fulfills" Robert G. Ingersoll

Export Trade Partners



Top Ten Export Partners of Kings County for 1999



KINGS COUNTY QUICK FACTS

Kings County Quick Facts

- **84% of the land area in Kings County is farmland**
- **21.5 % of the total workforce in Kings County is in Agriculture (1998)**
- **681 acres is the average farm size in Kings County**
- **The average age of a person that operates a farm in Kings County is about 50**
- **There are 1,187 farms in Kings County**
- **The most prolific milk producing cow the world has ever known, No. 289, lived in this county for 19 years and gave 54,070 gallons of milk - enough to fill more than eight 60-foot tanker trucks**
- **Average herd size for a dairy is about 837**

Certified Farmer's Market

Hanford Certified Farmer's Market

116 W. Seventh Street

Hanford, CA 93230

Thursday's 4 P.M. to 7 P.M.

May thru October - Court House Park

Kings County Produce Normally Available At The Farmer's Market

Almonds	Cherry Tomatoes	Onions
Apples	Chili Peppers	Peanuts
Apricots	Cucumbers	Pears
Artichokes	Eggplant	Peaches
Asparagus	Figs	Persimmons
Bell Peppers	Fresh Cut Flowers	Pomegranates
Boysenberries	Garlic	Plums
Blueberries	Grapes	Potatoes
Broccoli	Honey	Squash
Beans	Mixed Melons	Strawberries
Cantaloupe	Nectarines	Sweet Corn
Carrots	Okra	Tomatoes
Cherries	Olives	Walnuts
		Watermelon

**To Learn More About Kings County Agriculture, Visit Our Web Site
@ <http://www.kingsagcomm.com>**

LAND USE

Surrounding Counties	1998 Rank	1998 Gross Value	Total County Area Acres	Top Commodity	1998 Value	Acres or Number of Head
Fresno	1	\$3,292,951,900	4,080,000	Grapes	\$569,208,000	221,197
Tulare	2	\$2,924,235,800	3,158,400	Milk	\$898,498,000	335,619
Monterey	3	\$2,293,258,385	2,127,360	Lettuce	\$359,644,000	57,738
Kern	4	\$2,068,032,200	5,223,000	Grapes	\$427,447,000	81,289
Kings	12	\$886,963,000	897,280	Milk	\$322,774,000	190,000

Kings County Land Use Summary*

Land Use Category	1996		1998		Acreage Change
	Acres	Percent	Acres	Percent	
Prime Farmland	142,578	16	142,528	16	-50
Farmland of Statewide Importance	433,887	49	429,172	48	-4,715
Unique Farmland	24,772	3	24,496	3	-276
Farmland of Local Importance	5,778	1	6,512	1	734
Grazing Land	243,778	27	244,174	27	396
Urban and Built-up Land	27,228	3	28,244	3	1,016
Other Land	12,720	1	15,594	2	2,874
Water Area	45	0	66	0	21
TOTAL ACRES	890,786		890,786		

*From the California Department of Conservation

The dynamics of this Valley continue to evolve with the population growth and the corresponding needs for water and land. Population growth provides greater marketing opportunities, and in turn increases the demand for production agriculture. Agriculture needs the increasing marketing opportunities and the increasing population for agriculture. However, in California, the two are competing for the same land and the same water. It is vital for the future of agriculture and it's populus that we work together to maintain and preserve the farmland that we still have, and provide reliable water sources to protect our domestic food production.

KINGS COUNTY GENERAL INFORMATION

County Seat	Hanford
County Population (1999)	128,323
Population per Square Mile	92.19
Total Assessed Value (1999)	\$4,035,156,766
Land Area (Square Miles)	1,392
Total Acres	890,800
Total Harvested Crop Acreage (1999)	680,821
Foreign Ownership (1995)	4,009 (acres)
Total Farmland (Acres - 1999)	749,100
Public Ownership of Land (Acres - 1990)	
Federal	20,912.69
State	1,684.99
County	5,556.25
Local Agencies	9,460.34

Agricultural production ranked 12th among California counties and 25th among U.S. counties (based on 1998 total value).

Railroads - Santa Fe, Southern Pacific & San Joaquin Railroad.

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, CA

YEAR	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	TOTAL
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	1.40	3.32	0.85	0.10	0.00	7.98
1992-93	0.00	0.01	0.00	0.00	0.58	0.00	2.62	3.88	2.48	2.16	0.07	0.08	11.88
1993-94	0.26	0.00	0.00	0.24	0.24	0.68	0.66	1.45	1.02	0.70	0.69	0.00	5.94
1994-95	0.00	0.00	0.00	1.06	0.35	1.54	0.33	4.70	0.51	4.77	0.65	0.87	14.78
1995-96	0.00	0.00	0.00	0.00	0.00	0.00	1.59	1.79	2.55	2.15	0.89	0.16	9.13
1996-97	0.04	0.00	0.00	0.00	1.65	0.87	3.03	3.02	0.12	0.21	0.00	0.00	8.94
1997-98	0.00	0.00	0.00	0.06	0.09	1.96	1.80	2.00	4.05	2.60	1.68	1.31	15.55
1998-99	0.44	0.00	0.00	0.00	0.68	0.63	0.64	3.01	0.56	0.43	1.37	0.00	7.76
1999-00	0.00	0.00	0.00	0.00	0.15	0.00	0.00						
AVERAGE	0.05	0.01	0.03	0.20	0.32	0.91	1.16	1.65	1.44	1.43	0.73	0.25	8.17
50 YEAR AVERAGE RAINFALL													8.17