

AGRICULTURAL CROP REPORT 1991



Solano County Department of Agriculture

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DEPARTMENT OF AGRICULTURE
2000 WEST TEXAS STREET
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HENRY J. VOSS, Director
California Department of Food and Agriculture

and

THE HONORABLE BOARD OF SUPERVISORS OF SOLANO COUNTY

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I am pleased to present the 1991 Solano County Crop Report in accordance with Section 2279 of the California Food and Agricultural Code. This report addresses acreages, yields, and gross values for agricultural commodities produced within the county but does not reflect net farm income or costs of production and marketing.

Agricultural commodities for 1991 totalled \$181,775,000, reflecting an approximate 4 percent increase compared to 1990. This increase in gross value is particularly notable since 18,551 acres of farmland were involved in waterbanking in 1991. Solano County agriculture was able to assist with drought water management by selling water while also retaining its stronghold in agricultural production.

Vegetable values showed significant increases, largely due to strong acreages, yields, and prices for processing tomatoes. Fruit and Nut increases were largely attributable to nonbearing orchards coming into production and strong prices. Field crop values showed a decrease due to acreage changes in a variety of crops; yields, however, were strong and prices were generally similar to 1990.

There were twenty-three million dollar crops in 1991, with processing tomatoes remaining Solano County's number one crop. Alfalfa moved up into second rank, and sugar beets moved into sixth rank. Grape and walnut values increased due to strong yields and increased producing acres. Seed crops continued to make a strong contribution to Solano County's agricultural production.

Gross values for Solano County commodities produced in 1991 indicate a solid agricultural sector, only surpassed once, in 1989.

If one considers the multiplier effect, Solano County agriculture contributes well over \$1 billion to California's economy.

I would like to express appreciation to the Solano County Agriculture Department and the U.C. Cooperative Extension Service staff who contributed to this report, with special recognition to Lenny DaMassa, Supervising Agricultural Biologist. The growers and ranchers who responded to the surveys for commodity production information and who create the wealth agriculture represents to this county are to be thanked.

The cover of this report reflects Solano County's lead commodity, processing tomatoes. This photo of field harvest of processing tomatoes was provided by Gene Miyao, U.C. Cooperative Extension Service.

Pursuant to the California Food and Agricultural Code, Section 2272, a sustainable agriculture report is included with this annual crop report.

Respectfully,

A handwritten signature in black ink that reads "Susan E. Cohen". The signature is written in a cursive, flowing style.

Susan E. Cohen

ANNUAL CROP REPORT

COUNTY OF SOLANO

GROSS VALUES 1991

SOLANO COUNTY DEPARTMENT OF AGRICULTURE
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SOLANO COUNTY FRUIT AND NUT ACREAGE

1991

<u>Orchard Crop</u>	<u>Bearing Acreage</u>	<u>Non-Bearing Acreage</u>	<u>Total Acreage</u>
Almonds	1,621	40	1,661
Apples	117	0	117
Apricots	921	0	921
Cherries	78	0	78
Figs	12	0	12
Grapes (Wine)	1,801	118	1,919
Kiwi	92	0	92
Olives	12	0	12
Oranges	26	0	26
Peaches (Freestone)	303	4	307
Pears	1,726	0	1,726
Pecans	2	0	2
Persimmons	2	4	6
Pineapple Guava (Feijoa)	3	0	3
Pistachio Nuts	24	0	24
Plums	19	2	21
Prunes	2,171	71	2,242
Tangerines	5	0	5
Walnuts (English)	3,730	522	4,252
Walnuts (Black)	25	0	25
Totals	----- 12,690	----- 761	----- 13,451

FIELD CROPS: ACREAGE, PRODUCTION AND VALUE

Crop	Year	Average Production			Average Value		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Barley (Irrigated)	1991	13,000	2.26	29,380	Ton	\$102.00	\$2,996,800
	1990	14,353	1.87	26,840	Ton	110.00	2,952,400
Barley (Dryland)	1991	2,272	1.74	3,953	Ton	102.00	403,200
	1990	3,647	.77	2,808	Ton	110.00	308,900
Beans, Edible Dry, All Market Classes*	1991	4,604	1.08	4,972	Ton	520.00	2,585,400
	1990	11,700	1.25	14,625	Ton	514.00	7,517,300
Corn, Field	1991	25,000	4.65	116,250	Ton	107.00	12,438,800
	1990	27,744	4.47	124,016	Ton	101.08	12,535,500
Corn, Pop	1991	1,610	3.34	5,377	Ton	204.00	1,096,900
	1990	1,306	3.04	3,970	Ton	194.12	770,700
Corn, Taco	1991	453	3.58	1,621	Ton	129.00	209,100
	1990	450	4.33	1,949	Ton	120.00	233,900
Hay (Alfalfa)	1991	19,276	6.84	131,847	Ton	115.00	14,503,200
	1990	16,000	6.21	99,360	Ton	98.52	9,788,900
Hay (Grain)	1991	2,199	2.48	5,453	Ton	72.00	392,600
	1990	2,000	2.15	4,300	Ton	83.79	360,300
Hay (Grass)	1991	3,500	1.63	5,705	Ton	48.00	273,800
	1990	3,500	1.50	5,250	Ton	40.00	210,000
Nursery Stock**	1991	644	---	---	---	---	13,731,900
	1990	607	---	---	---	---	13,541,400
Oats (Grain)	1991	5,089	1.91	9,719	Ton	103.00	1,001,100
	1990	3,603	1.70	6,125	Ton	98.87	606,600
Pasture (Irrigated)	1991	20,500	---	---	Acre	75.00	1,537,500
	1990	20,500	---	---	Acre	75.00	1,537,500
Pasture (Rangeland)	1991	143,800	---	---	Acre	15.00	2,157,000
	1990	143,800	---	---	Acre	15.00	2,157,000
Safflower, Oil	1991	1,899	.80	1,519	Ton	250.00	379,800
	1990	5,769	1.20	5,920	Ton	255.60	1,749,200

(continued)

* Value and Yield Vary By Variety

** Nursery Stock includes cuttings, buds, scions, Christmas trees, nursery stock, turf, root-stock, greenhouse, timber, firewood, etc.

FIELD CROPS: ACREAGE, PRODUCTION AND VALUE
(continued)

<u>Crop</u>	<u>Year</u>	Average Production			Average Value		
		<u>Harvested Acreage</u>	<u>Per Acre</u>	<u>Total</u>	<u>Unit</u>	<u>Per Unit</u>	<u>Total</u>
Sorghum (Milo)	1991	---	---	---	---	---	---
	1990	106	3.46	367	Ton	73.00	26,800
Sugar Beet	1991	13,266	22.91	303,924	Ton	38.06	11,567,300
	1990	15,800	24.88	393,104	Ton	40.41	18,885,300
Wheat (Irrigated)	1991	34,500	2.61	90,045	Ton	119.00	10,715,400
	1990	40,508	2.40	99,245	Ton	108.00	17,718,500
Wheat (Dryland)	1991	3,894	2.14	8,333	Ton	119.00	991,600
	1990	5,053	1.41	7,125	Ton	108.00	769,500
Miscellaneous	1991	(Silage, Straw, Grass, Sunflower					900,000
	1990	Oil, Sunflower Confectionary, Etc.)					900,000
<hr/>							
TOTAL	1991	295,506				\$ 77,881,400	
FIELD CROPS	1990	316,634				\$ 82,568,700	
<hr/>							

VEGETABLE CROPS: ACREAGE, PRODUCTION AND VALUE

<u>Crop</u>	<u>Year</u>	Average Production			Average Value		
		<u>Harvested Acreage</u>	<u>Per Acre</u>	<u>Total</u>	<u>Unit</u>	<u>Per Unit</u>	<u>Total</u>
Tomatoes (Processing)	1991	23,804	32.60	776,010	Ton	\$54.00	\$41,904,500
	1990	19,547	31.50	615,731	Ton	52.40	32,264,300
Miscellaneous	1991	1,900	(Asparagus, Bell Peppers,			3,135,900	
	1990	1,949	Celery, Endive, Mushrooms, Pumpkins, Spices, Other Miscellaneous Vegetables)			3,386,600	
<hr/>							
TOTAL	1991	25,704				45,040,400	
VEGETABLE CROPS	1990	21,495				35,650,900	
<hr/>							

FRUIT AND NUT CROPS: ACREAGE, PRODUCTION AND VALUE

<u>Crop</u>	<u>Year</u>	<u>Average Production</u>			<u>Average Value</u>		
		<u>Bearing Acreage</u>	<u>Per Acre</u>	<u>Total</u>	<u>Unit</u>	<u>Per Unit</u>	<u>Total</u>
Almonds							
Almond (Meats)	1991	---	---	294.5	Ton	\$1,933.00	\$569,300
	1990	---	---	647.9	Ton	1,507.00	976,400
Almond Hulls	1991	---	---	368.1	Ton	35.00	12,900
	1990	---	---	809.8	Ton	28.00	22,700
Total Almonds	1991	1,621	.181	249.5	Ton	---	582,200
	1990	1,686	.380	647.9	Ton	---	999,100
Apricots							
Dried (6.4:1)*	1991	---	---	290.9	Ton	4,000.00	1,163,600
	1990	---	---	375.5	Ton	1,915.00	719,100
Fresh Market	1991	---	---	411.3	Ton	1,061.00	436,400
	1990	---	---	57.0	Ton	1,030.00	58,700
Total Apricots	1991	921	2.460	2,273.0	Ton	---	1,600,000
	1990	919	2.640	2,422.6	Ton	---	777,800
Cherries							
Fresh Market	1991	78	.347	27.1	Ton	2,775.00	75,200
	1990	76	.950	72.0	Ton	1,710.00	123,100
Grapes, Wine **							
Dark Variety	1991	---	---	4,364.3	Ton	470.00	2,051,200
	1990	---	---	3,180.0	Ton	606.00	1,927,100
White Variety	1991	---	---	7,382.9	Ton	652.00	4,813,700
	1990	---	---	4,522.0	Ton	515.00	2,328,800
Total Grapes	1991	1,801	6.522	11,747.2	Ton	---	6,864,900
	1990	1,234	6.240	7,702.0	Ton	---	4,255,900
Kiwi ***							
	1991	92	7.000	644.0	Ton	1,200.00	772,800
	1990	92	7.900	726.8	Ton	1,200.00	872,200

(continued)

- * Drying Ratio
- ** Price Varies by Variety
- *** Yields Vary by Grower and Age of Vines

FRUIT AND NUT CROPS: ACREAGE, PRODUCTION AND VALUE

(continued)

Crop	Year	Average Production			Average Value		
		Bearing Acreage	Per Acre	Total	Unit	Per Unit	Total
Peaches (Freestone)							
Dried	1991	---	---	224.9	Ton	\$2,800.00	\$629,700
(7.5:1)*	1990	---	---	237.7	Ton	1,117.00	265,500
Total Peaches	1991	303	5.566	1,686.7	Ton	---	629,700
	1990	300	6.020	1,806.5	Ton	---	265,500
Pears							
Canned #1	1991	---	---	18,748.0	Ton	229.00	4,293,300
	1990	---	---	18,565.0	Ton	213.00	3,954,300
Dried	1991	---	---	78.0	Ton	2,600.00	202,800
(6.4:1)*	1990	---	---	381.0	Ton	731.00	278,500
Fermentation & Juice Concentrate	1991	---	---	485.0	Ton	77.00	37,300
	1990	---	---	73.0	Ton	80.00	5,800
Fresh Market	1991	---	---	937.0	Ton	300.00	281,100
	1990	---	---	1,902.0	Ton	243.00	462,200
Total Pears	1991	1,726	11.975	20,669.2	Ton	---	4,814,500
	1990	1,709	13.560	23,168.9	Ton	---	4,700,800
Prunes **	1991	2,171	1.860	4,038.0	Ton	827.00	3,339,400
	1990	2,147	1.560	3,347.2	Ton	830.00	2,778,200
Walnuts	1991	3,730	1.057	3,944.0	Ton	1,260.00	4,969,400
	1990	3,155	.990	3,132.0	Ton	1,078.00	3,376,300
Miscellaneous	1991	252	(Apples, Asian Pears, Black Walnuts, Jojoba, Olives, Pecans, Persimmons, Pistachios, Other Miscellaneous Fruit & Nut)				1,873,900
	1990	267					1,508,400

TOTAL FRUIT & NUT CROPS	1991	12,695					\$25,522,000
	1990	11,585					\$19,657,300

* Drying Ratio

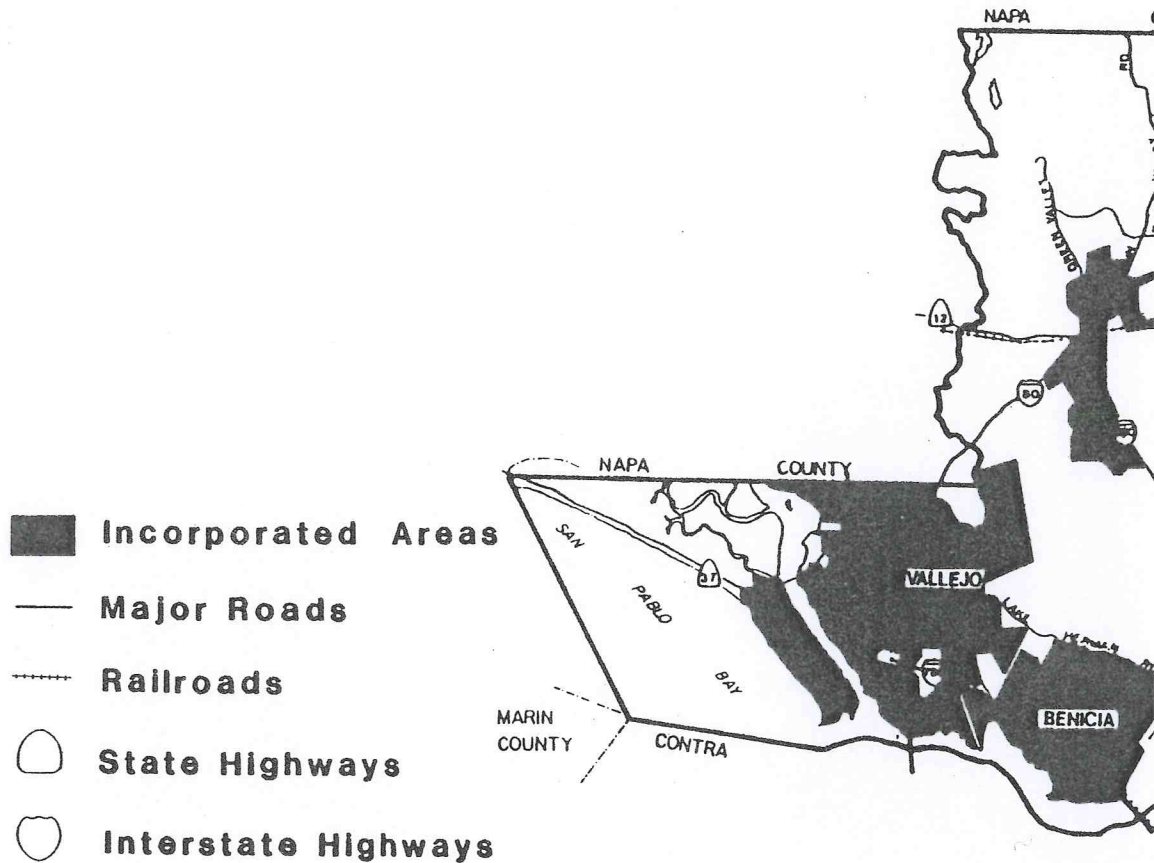
** Dry Yield

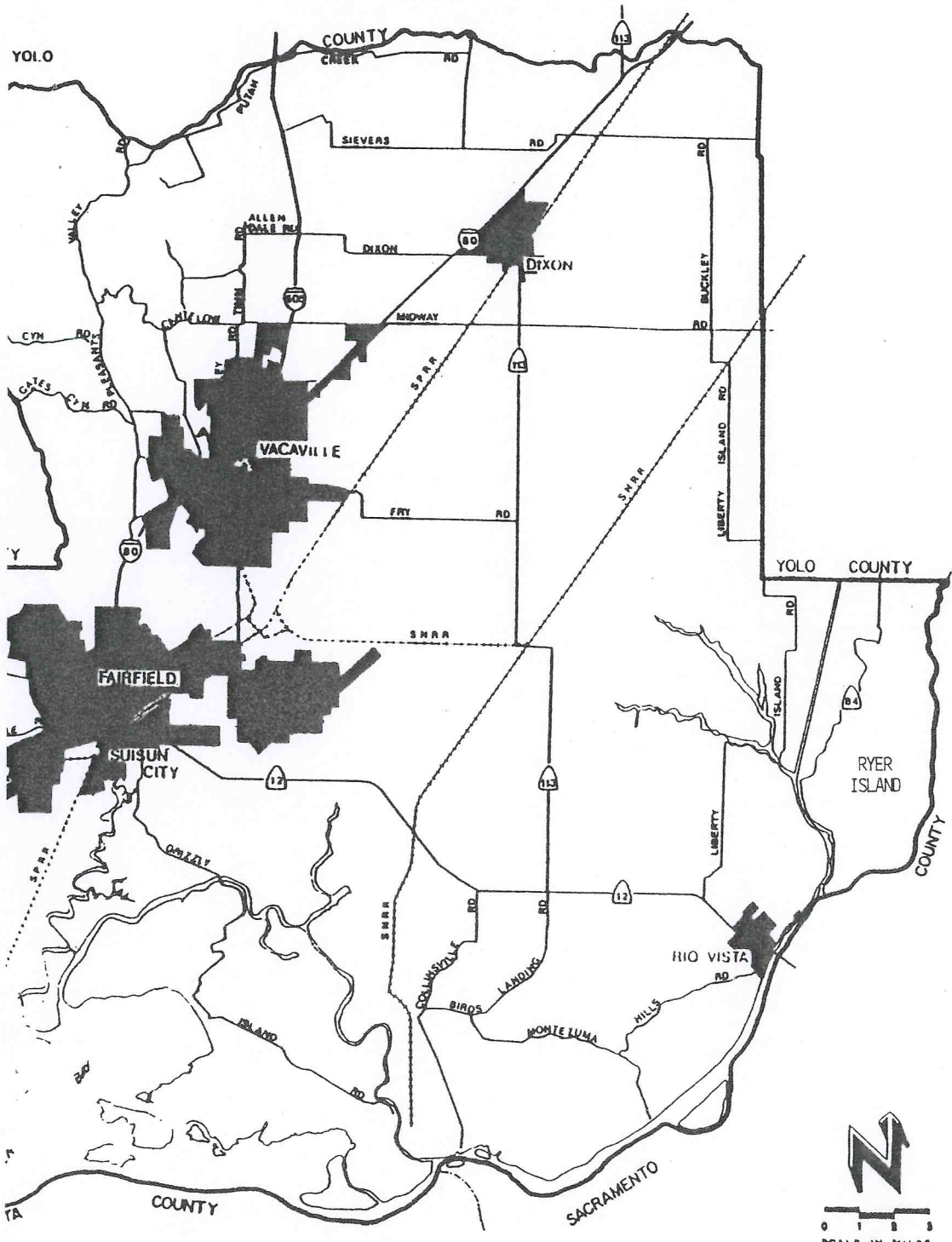
Map of Solano County

Area of County (Square Miles - Land) 827 Square Miles
 Area of County (Acres - Land) 529,280 Acres

Major Farming Districts

Dixon, Winters, Rio-Vista - Ryer Island, Suisun Valley, East Vacaville





SEED CROPS: ACREAGE, PRODUCTION AND VALUE

<u>Crop</u>	<u>Year</u>	<u>Average Production</u>			<u>Average Value</u>		
		<u>Harvested Acreage</u>	<u>Per Acre</u>	<u>Total</u>	<u>Unit</u>	<u>Per Unit</u>	<u>Total</u>
Beans, Dry, All Market Classes *	1991	1,833	.84	1,540	Ton	\$693.00	\$1,067,200
	1990	6,068	1.00	6,068	Ton	644.00	3,907,800
Beans, Dry, All Market Classes,* Certified	1991	826	1.00	826	Ton	720.00	594,700
	1990	1,428	1.00	1,428	Ton	700.00	999,600
Cantaloupe Non-Certified	1991	120	379	45,480	Lb.	2.22	101,000
	1990	---	---	---	---	---	---
Cucumber Non-Certified	1991	524	235	123,140	Lb.	3.68	453,200
	1990	---	---	---	---	---	---
Safflower Non-Certified	1991	---	---	---	---	---	---
	1990	280	.71	199	Ton	280.00	55,700
Squash Non-Certified	1991	200	400	80,000	Lb.	2.20	176,000
	1990	---	---	---	---	---	---
Sunflower Certified	1991	5,648	.64	3,615	Ton	1,120.00	4,048,800
	1990	2,839	.75	2,129	Ton	1,050.00	2,235,500
Tomato Non-Certified	1991	---	---	---	---	---	---
	1990	71	178.00	12,638	Lb.	27.50	347,500
Watermelon Non-Certified	1991	293	500	146,500	Lb.	2.28	334,000
	1990	---	---	---	---	---	---
Wheat Certified	1991	1,315	3.25	4,274	Ton	115.00	491,500
	1990	1,195	2.75	3,286	Ton	117.00	384,500
Miscellaneous	1991	1,326	(Carrot, Chili Pepper, Grass,				759,200
	1990	1,042	Onion, Peas, Pumpkin, Safflower, Vetch, & Other Misc. Seed)				1,304,600
TOTAL		1991	12,085				\$8,025,600
SEED CROP		1990	12,923				\$9,235,200

* Value and Yield Vary By Variety

LIVESTOCK, POULTRY, AND APIARY PRODUCTS AND VALUE

Item	Year	Average Production		Average Value		
		Production	Unit	Per Unit	Total	
Bees - Honey	1991	21,482	Lb.	\$1.00	\$21,500	
	1990	6,042	Lb.	.80	4,800	
- Packages *	1991	1,078	Pkg.	17.00	18,300	
	1990	920	Pkg.	15.83	14,600	
- Pollination **	1991	10,573	Colony	19.32	204,300	
	1990	6,042	Colony	23.73	143,400	
- Queens	1991	14,599	Each	6.14	89,600	
	1990	18,220	Each	5.75	104,800	
- Queens-Breeder	1991	---	---	---	---	
	1990	(See Miscellaneous Below)				
- Wax	1991	525	Lb.	1.71	900	
	1990	---	---	---	---	
Milk - Market	1991	297,135	Cwt.	11.17	3,319,000	
	1990	272,133	Cwt.	11.94	3,249,300	
- Manufacturing	1991	83	Cwt.	9.70	800	
	1990	146	Cwt.	11.66	1,700	
Wool	1991	493,511	Lb.	.51	251,700	
	1990	641,942	Lb.	.78	500,700	
Miscellaneous	1991	---	---	---	---	
	1990	(Fertile Chicken Eggs, Chicken Eggs, Game Bird Eggs, Breeder Queens)				
TOTAL LIVESTOCK		1991			\$3,906,100
POULTRY, AND APIARY PRODUCTS & VALUE		1990			\$4,023,900

* Packages Include 2 Lbs. Bees Plus Queen
 ** Pollination Fee Varies By Crop, Crops Pollinated Include Alfalfa, Almond, Kiwi, Onion, Prune, Sunflower, Vine Seed

LIVESTOCK AND POULTRY: PRODUCTION AND VALUE

<u>Item</u>	<u>Year</u>	<u>Average Production</u>		<u>Average Value</u>		
		<u>Head</u>	<u>Liveweight</u>	<u>Unit</u>	<u>Per Unit</u>	<u>Total</u>
Cattle & Calves	1991	33,000	165,000	Cwt.	\$72.46	\$11,955,900
	1990	35,000	175,000	Cwt.	71.96	12,593,000
Hogs & Pigs	1991	200	400	Cwt.	57.90	23,200
	1990	200	400	Cwt.	58.40	23,400
Stock Sheep	1991	75,000	90,000	Cwt.	17.90	1,611,000
	1990	76,800	91,200	Cwt.	21.00	1,915,200
Feeder Lambs	1991	167,225	142,141	Cwt.	53.80	7,647,200
	1990	158,840	158,400	Cwt.	59.60	9,466,900
Miscellaneous	1991	(Chickens, Dove, Ducks, Geese, Pheasants,				162,200
	1990	Pigeons, Rabbits, Quail, Turkeys, Fish, Eggs, Etc.)				132,500

TOTAL LIVESTOCK	1991					\$ 21,399,500
& POULTRY	1990					\$ 24,131,000

JANUARY 1, 1992 INVENTORY OF LIVESTOCK AND POULTRY

<u>Item</u>	<u>No. of Head</u>
Cattle and Calves	
All	44,500
Milk Cows	450
Hogs and Pigs	200
Horses and Mules	4,200
Stock Sheep	75,000

 GRAND TOTAL OF ALL 1991 \$181,775,000
 AGRICULTURAL PRODUCTS 1990 \$175,267,000

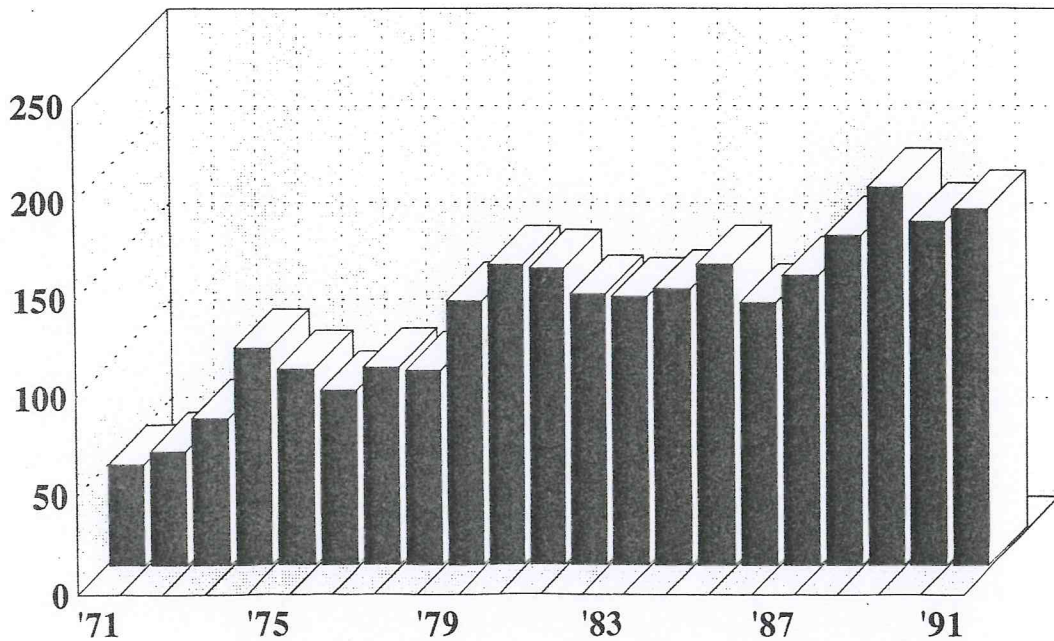
VALUE
 SUMMARY

Year	Field Crops	Fruit & Nut Crops	Seed Crops	Vegetable Crops	Animal Production	Totals
1982	76,060,100	14,973,000	2,713,500	24,282,000	19,808,100	137,836,700
1983	78,209,800	11,727,900	3,000,000	25,070,700	18,452,200	136,460,600
1984	77,553,100	13,307,400	3,617,700	26,640,200	19,511,500	140,629,900
1985	79,092,200	13,483,100	5,629,100	32,608,600	22,365,300	153,178,300
1986	61,739,200	12,821,900	3,900,600	31,577,400	23,914,300	133,953,400
1987	69,850,100	17,045,700	4,825,200	29,850,100	26,044,600	147,615,700
1988	80,521,500	17,216,400	4,873,600	34,828,700	30,800,800	168,241,000
1989	95,353,400	20,133,500	8,291,800	38,217,200	31,007,000	193,002,900
1990	82,568,700	19,657,300	9,235,200	35,650,900	28,154,900	175,267,000
1991	77,881,400	25,522,000	8,025,600	45,040,400	25,305,600	181,775,000

SOLANO AGRICULTURAL PRODUCTION

1971 TO 1991

■ MILLION \$



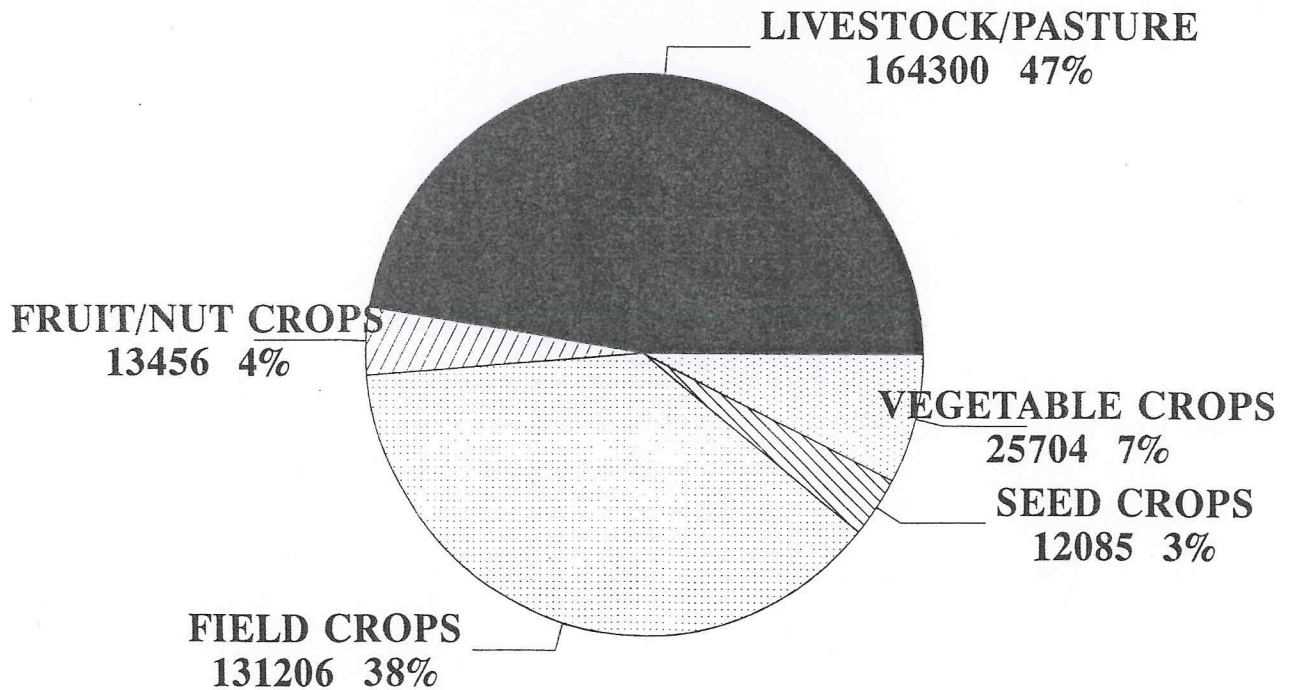
DISTRIBUTION OF FARM ACREAGE

	1991	1990
Field Crops	131,206	152,334
Fruit & Nut Crops	13,456 *	13,387 *
Pasture Lands	164,300	164,300
Seed Crops	12,085	12,923
Vegetable Crops	25,704	21,496
Fallowed Land	9,448	---
Waterbank	18,551 **	---
	-----	-----
Totals	374,750	364,440

* Includes Non-bearing Acreage

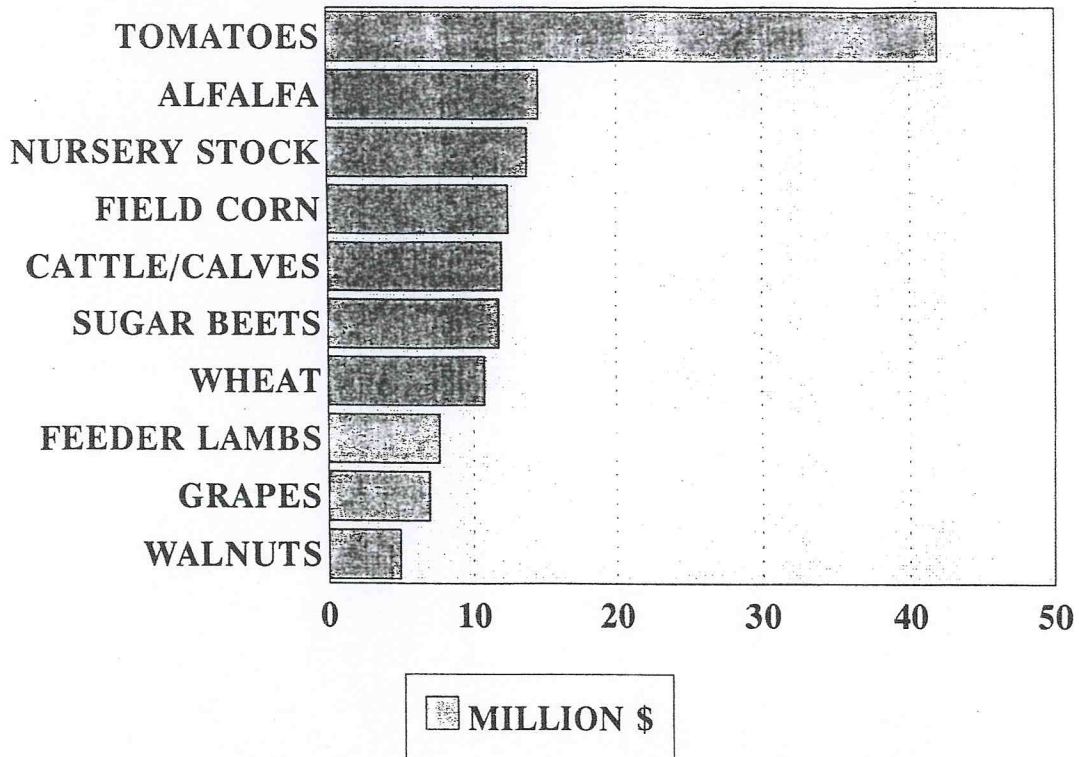
** Waterbank acres breakdown : wheat-5859, corn-5471, pasture-3208, sugar beets-1206, alfalfa-913, sunflowers-572, tomatoes-451, dry beans-387, safflower-325, barley- 79, seed grass-74

SOLANO COUNTY CROP ACREAGES 1991
BY MAJOR COMMODITIES

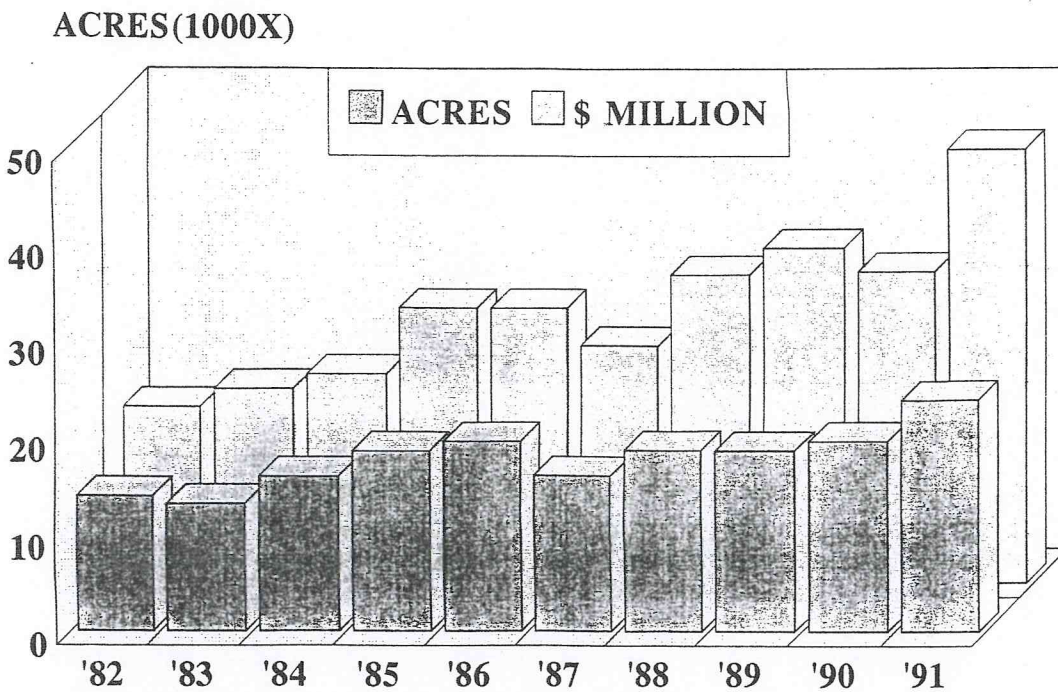


TOP TEN CROPS IN SOLANO COUNTY

BY VALUE FOR 1991



SOLANO COUNTY PROCESSING TOMATO PRODUCTION



MILLION DOLLAR CROPS

		1991 RANK	1990 RANK
TOMATOES	\$41,904,500	1	1
ALFALFA HAY	14,503,200	2	7
NURSERY STOCK	13,731,900	3	3
FIELD CORN	12,438,800	4	5
CATTLE & CALVES	11,955,900	5	4
SUGAR BEETS	11,567,300	6	2
WHEAT, IRRIGATED	10,715,400	7	6
FEEDER LAMBS	7,647,200	8	8
GRAPES	6,864,900	9	11
WALNUTS	4,969,400	10	13
PEARS	4,814,500	11	10
SUNFLOWER SEED, CERTIFIED	4,048,800	12	18
PRUNES	3,339,400	13	16
MILK	3,319,000	14	14
BARLEY, IRRIGATED	2,996,800	15	15
BEANS, EDIBLE, DRY ALL MARKET CLASSES	2,585,400	16	9
PASTURE, RANGELAND	2,157,000	17	19
STOCK SHEEP	1,611,000	18	20
APRICOTS	1,600,000	19	--
BEANS, SEED, DRY ALL MARKET CLASSES	1,067,200	20	12
PASTURE, IRRIGATED	1,537,500	21	22
POP CORN	1,096,900	22	--
OATS (GRAIN)	1,001,100	23	--
SAFFLOWER, OIL			21

SOLANO COUNTY ANNUAL SUSTAINABLE AGRICULTURAL REPORT

Pest	Agent/Mechanism	Scope of Program *
COUNTY BIOLOGICAL CONTROL		
Puncture Vine <u>Tribulus terrestris</u>	Stem & Seed Weevils <u>Microthorus lypriformis</u> <u>Microthorus lareynii</u>	2 Sites
Yellow Star Thistle <u>Centaurea solstitialis L.</u>	Seed Head Weevil <u>Bangasternus orientalis</u>	2 Sites
Elm Leaf Beetle <u>Xanthogaleruca luteola</u>	Population Monitoring Using Day Degrees 1 Experimental BT Spray	43 Trees 1 Site
PEST MANAGEMENT		
Artichoke Thistle <u>Cynara cardunculus L.</u>	Mechanical/Chemical	Various Sites
PEST EXCLUSION		
Gypsy Moth <u>Lymantria dispar</u>	Household Goods Shipments 438 Shipments Inspected	

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ORGANIC FARMING STATISTICS

FARMS	PRODUCTS	ACRES
15	VARIOUS FRUITS & VEGETABLES	500

* Represents total number of individual sites, trees, acres; etc. incorporated in program efforts (survey, trap servicings, releases, etc.)

SOLANO COUNTY GENERAL INFORMATION

County Seat Fairfield

County Population (January 1, 1991) 352,257

Benicia - 25,542	Dixon - 11,054	Fairfield - 79,630
Rio Vista 3,429	Suisun - 23,539	Vacaville - 74,989
	Vallejo - 112,027	

State Ranking In 1990 For Agricultural Production Values 28th

Ranking Among California Counties For Gross Value Of Production (1990)

- 2nd: Corn (For Grain) and Sheep & Lambs
- 4th: Pears and Sugar Beets
- 5th: Tomatoes

Total Secured Assessed Value \$14,612,968,739

Total Land Area in California (Acres, 1990). 100,000,000 Acres

California Agricultural Land (Acres, 1990) 30,000,000 Acres

Area of County (Square Miles - Land) 827 Sq. Mi.

Area of County (Acres - Land) 529,280 Acres

Area of County (Square Miles - Water) 45.2 Sq. Mi.

Number of Farms in Solano County (1987) 895 Farms

Average U.S. Farm size (Acres, 1990) 461 Acres

Average California Farm Size (Acres, 1990) 362 Acres

Average Size of Solano Farm (Acres,1987) 359 Acres

Solano County Road Miles (March 1, 1992) 614.5 Miles

Major Roadways - Interstates 80, 505, 680, 780 Highways 12, 29, 37,
84, 113, 220

Major Farming Districts - Dixon, Winters, Rio Vista - Ryer Island, Suisun
Valley, East Vacaville

Major Rivers & Waterways - Sacramento and Napa Rivers, Deep Water Ship
Channel, San Pablo and Suisun Bays

Railroads Southern Pacific, Amtrack

Facilities - Travis Air Force Base, Mare Island Naval Reserve, University
of California at Davis & Wolfskill Agricultural Experiment Stations