

AGRICULTURAL CROP REPORT 1990



Solano County Department of Agriculture

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HENRY J. VOSS, Director
California Department of Food and Agriculture

THE HONORABLE BOARD OF SUPERVISORS OF SOLANO COUNTY

MR. KENT TAYLOR, County Administrative Officer

I am pleased to present the 1990 Solano County Crop Report in accordance with Section 2279 of the California Food and Agricultural Code. The report addresses the acreage, average production, and gross values for agricultural commodities produced in Solano County and does not reflect net farm income or costs of production and marketing.

The total value of all agricultural products for 1990 was \$175,657,000, reflecting a 9% decrease compared to 1989. This decrease in gross value is a result of lower values in four production categories. If one considers the multiplier effect, Solano County agriculture contributes well over \$1 billion to California's economy.

There were twenty-two million dollar crops in 1990. Processing tomatoes remain Solano County's number one crop. Tomatoes were subject to lower yields, despite increased acreage. Sugar beets remain the number two crop, though acreage was reduced. Irrigated wheat moved to sixth rank, as acreage was significantly reduced. Walnut values showed an increase. Seed crops continue to make a strong contribution to Solano County's agricultural production, with an 11% increase in gross values. Feeder lamb values were reduced by 15%.

The last year that Solano County agriculture showed a decrease in total values was 1986.

I would like to express my sincere appreciation to the staff responsible for this report, with special recognition to Lenny DaMassa, Supervising Agricultural Biologist. Lawrence Clement, U.C. Cooperative Extension, was most helpful in producing this report. The growers

and ranchers of Solano County are to be thanked for providing crop information and for creating the wealth that agriculture represents to this county.

Special mention must be made regarding the cover of this report. Michael S. Moulthrop is working on a photographic exhibit on the history of ranching in Solano County and the cover photo reflects the impact of the drought on the sheep and lamb industry of the county.

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

Respectfully,


Susan E. Cohen

ANNUAL CROP REPORT

COUNTY OF SOLANO

GROSS VALUES 1990

STATE DIRECTOR OF FOOD AND AGRICULTURE

Henry J. Voss

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SOLANO COUNTY DEPARTMENT OF AGRICULTURE

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Diana Harris Lisa Hurst

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SOLANO COUNTY FRUIT AND NUT ACREAGE

1990

<u>Orchard Crop</u>	<u>Bearing Acreage</u>	<u>Non-Bearing Acreage</u>	<u>Total Acreage</u>
Almonds	1,686	40	1,726
Apples	117	0	117
Apricots	991	0	991
Cherries	76	2	78
Figs	12	0	12
Grapes (Wine)	1,234	685	1,919
Kiwi	92	0	92
Olives	12	0	12
Oranges	26	0	26
Peaches (Freestone)	300	3	303
Pears	1,709	17	1,726
Pecans	2	0	2
Persimmons	2	4	6
Pineapple Guava (Feijoa)	3	0	3
Pistachio Nuts	24	0	24
Plums	19	0	19
Prunes	2,147	73	2,220
Tangerines	5	0	5
Walnuts (English)	3,155	978	4,133
Walnuts (Black)	25	0	25
Totals	<u>11,637</u>	<u>1,802</u>	<u>13,439</u>

FIELD CROPS: ACREAGE, PRODUCTION AND VALUE

Crop	Year	Average Production			Average Value		
		Bearing Acreage	Per Acre	Total	Unit	Per Unit	Total
Barley (Irrigated)	1990	14,353	1.80	726,840	Ton	\$110.00	\$2,952,400
	1989	13,500	2.45	33,075	Ton	118.00	3,902,900
Barley (Dryland)	1990	3,647	.77	2,808	Ton	110.00	308,900
	1989	4,441	1.34	5,951	Ton	118.00	702,200
Beans, Edible Dry, All Market Classes*	1990	11,700	1.25	14,625	Ton	514.00	7,517,300
	1989	12,600	1.25	15,750	Ton	600.00	9,450,000
Corn, Field	1990	27,744	4.47	124,016	Ton	101.08	12,535,500
	1989	29,500	4.62	136,290	Ton	110.00	14,991,900
Corn, Pop	1990	1,306	3.04	3,970	Ton	194.12	770,700
	1989	---	---	---	---	---	---
Corn, Taco	1990	450	4.33	1,949	Ton	120.00	233,900
	1989	---	---	---	---	---	---
Hay (Alfalfa)	1990	16,000	6.21	99,360	Ton	98.52	9,788,900
	1989	14,676	6.85	100,531	Ton	95.00	9,550,400
Hay (Grain)	1990	2,000	2.15	4,300	Ton	83.79	360,300
	1989	2,000	2.15	4,300	Ton	60.00	258,000
Hay (Grass)	1990	3,500	1.50	5,250	Ton	40.00	210,000
	1989	3,500	2.15	7,525	Ton	50.00	376,300
Nursery Stock**	1990	607	---	---	---	---	13,541,400
	1989	582	---	---	---	---	12,294,600
Oats (Grain)	1990	3,603	1.70	6,125	Ton	98.87	605,600
	1989	2,500	2.10	5,250	Ton	125.00	656,300
Pasture (Irrigated)	1990	20,500	---	---	Acre	75.00	1,537,500
	1989	20,500	---	---	Acre	75.00	1,537,500
Pasture (Rangeland)	1990	143,800	---	---	Acre	15.00	2,157,000
	1989	143,800	---	---	Acre	15.00	2,157,000
Safflower, Oil	1990	5,769	1.20	6,923	Ton	252.66	1,749,200
	1989	4,400	1.30	5,720	Ton	305.00	1,744,600

(continued)

* Value and Yield Vary By Variety

** Nursery includes cuttings, buds, scions, christmas trees, turf, nurserystock, greenhouse, timber, firewood, etc.

FIELD CROPS: ACREAGE, PRODUCTION AND VALUE

(continued)

Crop	Year	Average Production			Average Value		
		Bearing Acreage	Per Acre	Total	Unit	Per Unit	Total
Sorghum (Milo)	1990	106	3.46	367	Ton	\$73.00	\$ 26,800
	1989	400	3.69	1,476	Ton	100.00	147,600
Sugar Beet	1990	15,800	24.88	393,104	Ton	40.41	15,885,300
	1989	17,871	25.21	450,528	Ton	40.71	18,341,000
Wheat (Irrigated)	1990	40,508	2.45	99,245	Ton	108.00	10,718,500
	1989	53,528	2.60	139,173	Ton	125.00	17,396,600
Wheat (Dryland)	1990	5,053	1.41	7,125	Ton	108.00	769,500
	1989	7,572	1.00	7,572	Ton	125.00	946,500
Miscellaneous	1990	188	(Silage, Straw, Grass,				900,000
	1989		Sunflower Oil, etc.)				900,000

TOTAL	1990	316,634					\$ 82,568,700
FIELD CROPS	1989	331,370					\$ 95,353,400

VEGETABLE CROPS: ACREAGE, PRODUCTION AND VALUE

Crop	Year	Average Production			Average Value		
		Bearing Acreage	Per Acre	Total	Unit	Per Unit	Total
Tomatoes (Processing)	1990	19,547	31.50	615,731	Ton	\$52.40	\$32,264,300
	1989	18,585	34.00	631,890	Ton	55.00	34,754,000
Miscellaneous	1990	1,949	(Asparagus, Bell Peppers,				3,386,600
	1989	1,900	Celery, Endive, Mushrooms, Pumpkins, Spices, Misc. Vegetables)				3,463,200

TOTAL	1990	21,496					\$35,650,900
VEGETABLE CROPS	1989	20,485					\$38,217,200

FRUIT AND NUT CROPS: ACREAGE, PRODUCTION AND VALUE

Crop	Year	Average Production			Average Value		
		Bearing Acreage	Per Acre	Total	Unit	Per Unit	Total
Almonds							
Almond (Meats)	1990	---	---	647.9	Ton	\$1,507.00	\$976,400
	1989	---	---	434.3	Ton	2,000.00	868,600
Almond Hulls	1990	---	---	809.8	Ton	28.00	22,700
	1989	---	---	542.8	Ton	22.00	11,900
Total Almonds	1990	1,686	.380	647.9	Ton	---	999,100
	1989	1,876	.230	434.3	Ton	---	880,500
Apricots							
Dried (6.3:1)*	1990	---	---	375.5	Ton	1,915.00	719,100
	1989	---	---	494.3	Ton	2,015.00	996,000
Fresh Market	1990	---	---	57.0	Ton	1,030.00	58,700
	1989	---	---	152.5	Ton	1,037.00	158,100
Total Apricots	1990	919	2.640	2,422.6	Ton	---	777,800
	1989	1,038	3.240	3,366.4	Ton	---	1,154,100
Cherries							
Fresh Market	1990	76	.950	72.0	Ton	1,710.00	123,100
	1989	76	.700	53.2	Ton	2,090.00	111,200
Grapes, Wine **							
Dark Variety	1990	---	---	3,180.0	Ton	606.00	1,927,100
	1989	---	---	3,324.3	Ton	702.00	2,333,700
White Variety	1990	---	---	4,522.0	Ton	515.00	2,328,800
	1989	---	---	4,862.9	Ton	574.00	2,791,300
Total Grapes	1990	1,234	6.240	7,702.0	Ton	---	4,255,900
	1989	1,234	6.630	8,187.2	Ton	---	5,125,000
Kiwi ***	1990	92	7.900	726.8	Ton	1,200.00	872,200
	1989	102	6.900	703.8	Ton	1,430.00	1,006,400

(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	1990	---	---	237.7	Ton	\$1,117.00	\$265,500
(7.6:1)*	1989	---	---	237.9	Ton	1,012.00	240,800
Total Peaches	1990	300	6.020	1,806.5	Ton	---	265,500
	1989	338	5.280	1,784.2	Ton	---	240,800
Pears							
Canned #1	1990	---	---	18,565.0	Ton	213.00	3,954,300
	1989	---	---	18,360.0	Ton	230.00	4,222,800
Dried	1990	---	---	381.0	Ton	731.00	278,500
(6.9:1)*	1989	---	---	361.0	Ton	540.00	194,900
Fermentation & Juice Concentrate	1990	---	---	73.0	Ton	80.00	5,800
	1989	---	---	407.0	Ton	75.00	30,500
Fresh Market	1990	---	---	1,902.0	Ton	243.00	462,200
	1989	---	---	519.0	Ton	308.00	159,900
Total Pears	1990	1,709	13.56	23,168.9	Ton	---	4,700,800
	1989	1,729	12.41	21,452.0	Ton	---	4,608,100
Prunes **	1990	2,147	1.56	3,347.2	Ton	830.00	2,778,200
	1989	2,187	2.07	4,516.4	Ton	740.00	3,342,100
Walnuts	1990	3,155	.99	3,132.0	Ton	1,078.00	3,376,300
	1989	3,050	.96	2,931.0	Ton	1,122.00	3,288,600
Miscellaneous	1990	267	(Apples, Asian Pears, Black				1,508,400
	1989	228	Walnuts, Jojoba, Olives,				376,700
			Oranges, Pecans, Persimmons,				
			Plums, Pistachios, Other				
			Miscellaneous Fruit & Nut)				

TOTAL FRUIT & NUT CROPS	1990	11,585					\$19,657,300
	1989	11,858					\$20,133,500

* Drying Ratio

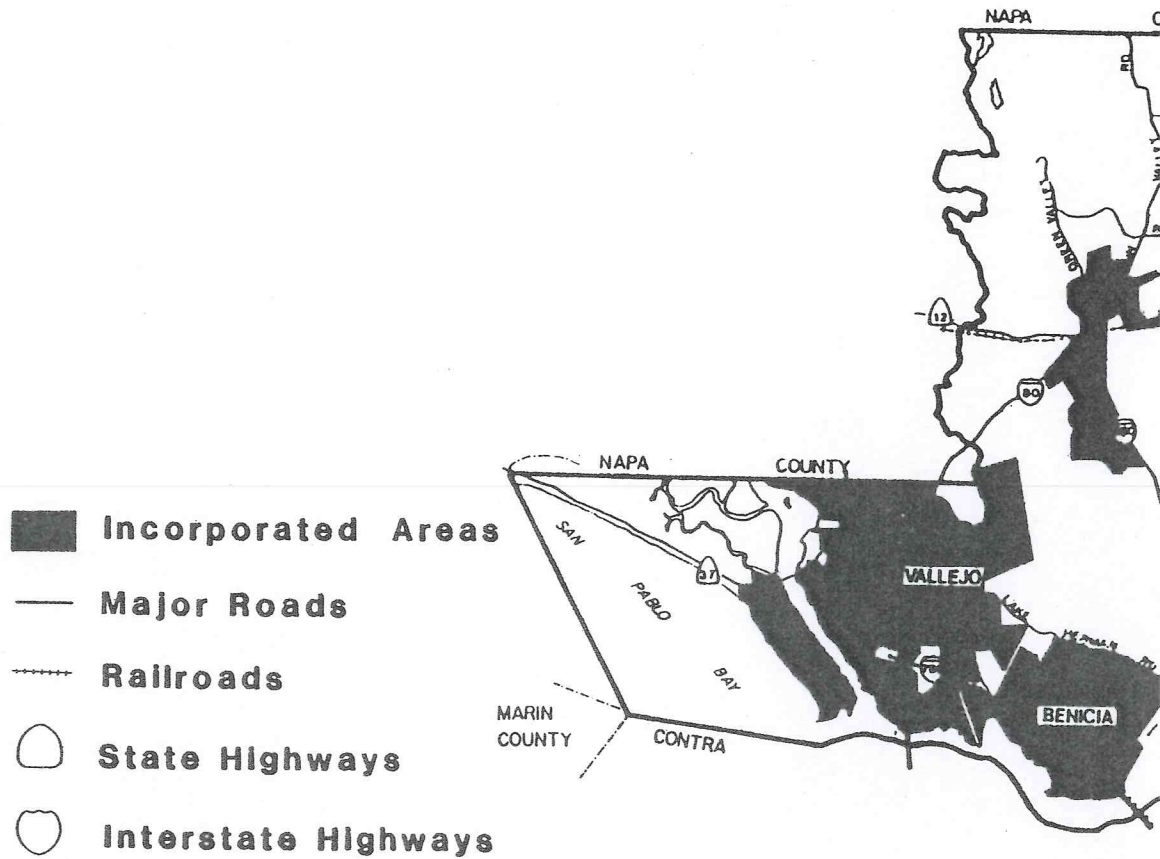
** Dry Yield

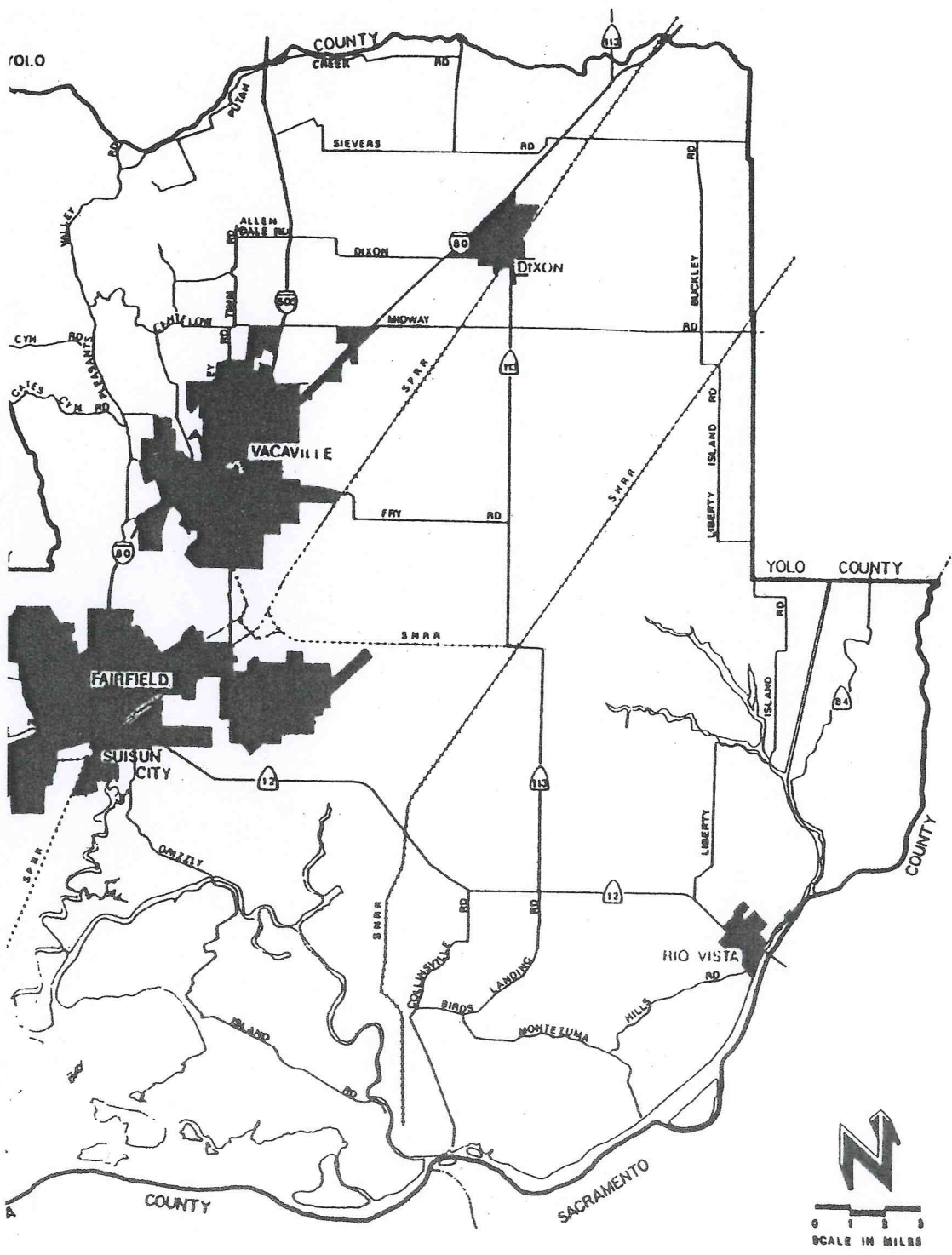
Map of Solano County

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

Crop	Year	Average Production		Average Value			
		Bearing Per Acreage	Per Acre	Total	Unit	Per Unit	Total
Beans, Dry, All Market Classes *	1990	6,068	1.00	6,068	Ton	\$644.00	\$3,907,800
	1989	4,832	1.00	4,832	Ton	650.00	3,140,800
Beans, Dry, All Market Classes,* Certified	1990	1,428	1.00	1,428	Ton	700.00	999,600
	1989	1,817	1.00	1,817	Ton	650.00	1,181,100
Cantaloupe **	1990	---	---	---	---	---	---
	1989	105	425.00	44,625	Lb.	2.25	100,400
Cucumber **	1990	---	---	---	---	---	---
	1989	687	275.00	188,925	Lb.	3.50	661,200
Safflower Non Certified	1990	280	.71	199	Ton	280.00	55,700
	1989	---	---	---	---	---	---
Squash **	1990	---	---	---	---	---	---
	1989	285	250.00	71,250	Lb.	3.50	249,400
Sunflower	1990	---	---	---	---	---	---
	1989	983	.55	541	Ton	900.00	486,900
Sunflower Certified	1990	2,839	.75	2,129	Ton	1,050.00	2,235,500
	1988	1,734	.81	1,405	Ton	1,000.00	1,405,000
Tomato Non Certified	1990	71	178.00	12,638	Lb.	27.50	347,500
	1989	---	---	---	---	---	---
Watermelon **	1990	---	---	---	---	---	---
	1989	611	375.00	229,125	Lb.	2.00	458,300
Wheat Certified	1990	1,195	2.75	3,286	Ton	117.00	384,500
	1989	1,103	2.75	3,033	Ton	142.50	432,200
Miscellaneous	1990	1,042	(Alfalfa, Barley, Squash,				1,304,600
	1989	248	Bell Peper, Cantaloupes, Clover, Cucumber, Grass, Oat, Onion, Squash, Watermelon, & Other Misc. Seed)				176,500

TOTAL SEED CROP	1990	12,923					\$9,235,200
	1989	12,405					\$8,291,800

* Value and Yield Vary By Variety
 ** Included in Miscellaneous

LIVESTOCK, POULTRY, AND APIARY PRODUCTS AND VALUE

Item	Year	Average Production		Average Value	
		Production	Unit	Per Unit	Total
Bees - Honey	1990	6,042	Lb.	\$.80	\$4,800
	1989	4,438	Lb.	.75	3,300
- Packages *	1990	920	Pkg.	15.83	14,600
	1989	1,120	Pkg.	16.00	17,900
- Pollination **	1990	6,042	Colony	23.73	143,400
	1989	6,148	Colony	20.00	123,000
- Queens	1990	18,220	Each	5.75	104,800
	1989	3,283	Each	6.00	139,700
- Queens-Breeder	1990	(See Miscellaneous Below)			
	1989	155	Each	100.00	15,500
- Wax	1990	---	---	---	---
	1989	200	Lb.	.85	200
Milk - Market	1990	272,133	Cwt.	11.94	3,249,300
	1989	220,165	Cwt.	12.34	2,716,800
- Manufacturing	1990	146	Cwt.	11.66	1,700
	1989	144	Cwt.	11.60	1,700
Wool	1990	641,942	Lb.	.78	500,700
	1989	643,410	Lb.	1.31	842,900
Miscellaneous	1990	(Fertile Chicken Eggs, Chicken Eggs, Game Bird Eggs, Breeder Queens)			4,600
	1989	(Fertile Chicken Eggs, Chicken Eggs Game Bird Eggs)			5,800

TOTAL LIVESTOCK	1990	. . . . .	\$.4,023,900
POULTRY, AND APIARY PRODUCTS & VALUE	1989	. . . . .	\$.3,866,800

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

LIVESTOCK AND POULTRY: PRODUCTION AND VALUE

Item	Year	Average Production		Average Value		
		Head	Liveweight	Unit	Per Unit	Total
Cattle & Calves	1990	35,000	175,000	Cwt.	\$71.96	\$12,593,000
	1989	41,000	205,000	Cwt.	67.90	13,919,500
Hogs & Pigs	1990	200	400	Cwt.	58.40	23,400
	1989	100	200	Cwt.	46.30	9,300
Stock Sheep	1990	76,000	91,200	Cwt.	21.00	1,915,200
	1989	76,800	92,160	Cwt.	21.00	1,944,600
Feeder Lambs	1990	158,840	158,400	Cwt.	59.60	9,466,900
	1989	160,800	160,800	Cwt.	69.30	11,143,400
Miscellaneous	1990	(Chickens, Dove, Ducks, Geese,				132,500
	1989	Pheasants, Pigeon, Rabbits, Quail, Turkeys, Fish.)				123,400

TOTAL LIVESTOCK 1990	\$ 24,131,000
& POULTRY 1989	\$ 27,140,200

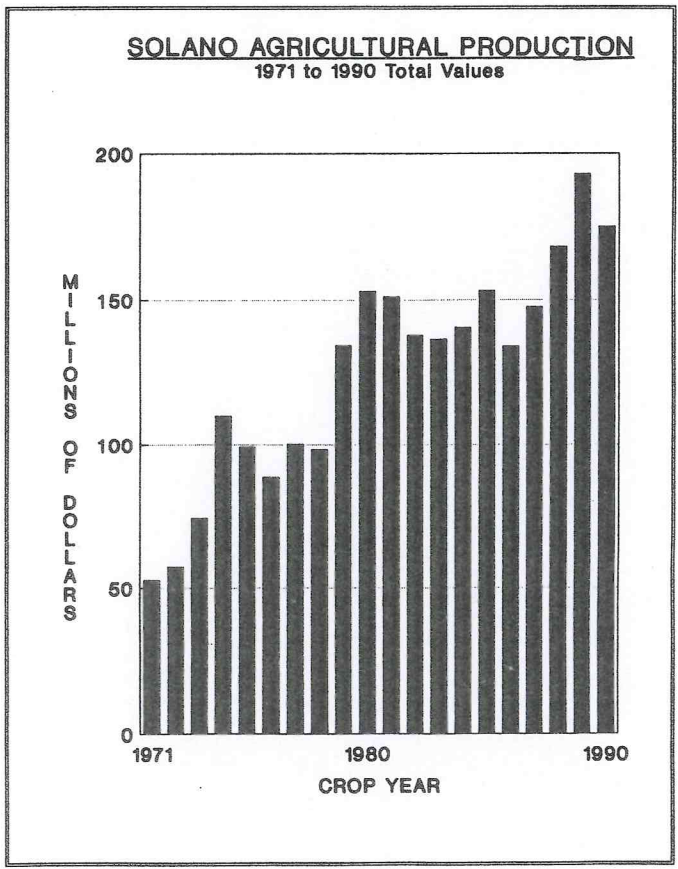
JANUARY 1, 1991 INVENTORY OF LIVESTOCK AND POULTRY

<u>Item</u>	<u>No. of Head</u>
Cattle and Calves	
All	48,000
Milk Cows	450
Hogs and Pigs	200
Horses and Mules	4,200
Stock Sheep	76,000

 GRAND TOTAL OF ALL 1990 \$175,267,000
 AGRICULTURAL PRODUCTS 1989 \$193,002,900

**V A L U E
 S U M M A R Y**

<u>Year</u>	<u>Field Crops</u>	<u>Fruit & Nut Crops</u>	<u>Seed Crops</u>	<u>Vegetable Crops</u>	<u>Animal Production</u>	<u>Totals</u>
1980	86,755,900	15,781,400	6,527,200	25,532,900	18,398,100	152,995,500
1981	86,094,700	17,875,900	3,685,000	24,753,300	18,688,800	151,097,700
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

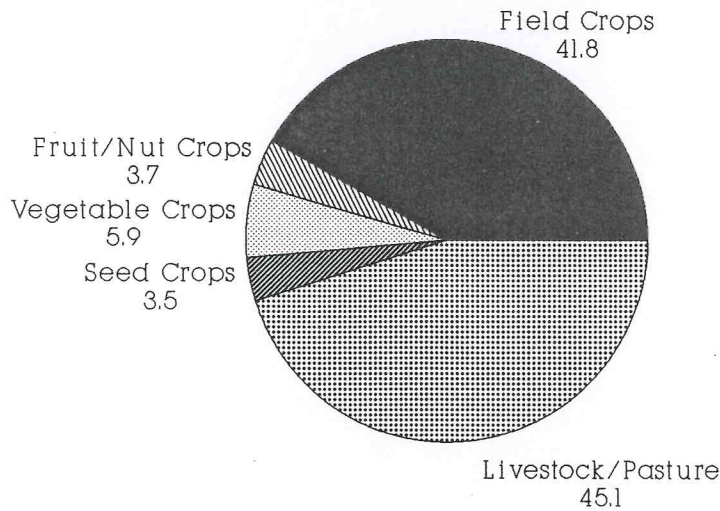


CLASSIFICATION OF ACREAGE

	1990	1989
Field Crops	152,334	167,070
Fruit & Nut Crops	13,387 **	13,566 **
Pasture Lands	164,300	164,300
Seed Crops	12,923	12,405
Vegetable Crops	21,496	20,485
 Totals	 364,440	 377,826

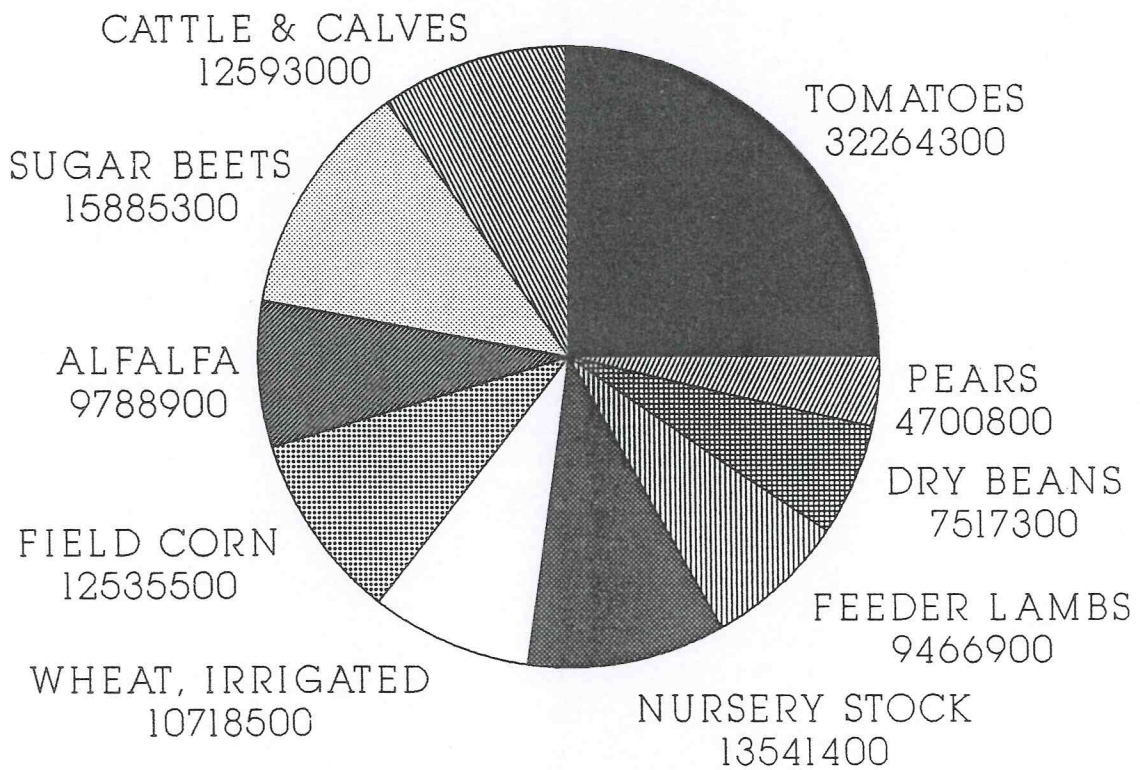
** Includes Non-bearing Acreage

SOLANO COUNTY CROP ACREAGE 1990
BY MAJOR COMMODITIES



(VALUES IN PERCENTAGE OF TOTAL ACREAGE)

TOP TEN CROPS IN SOLANO COUNTY
BY VALUE FOR 1990



MILLION DOLLAR CROPS

		1990 RANK	1989 RANK
TOMATOES	. . . . . \$32,264,300	1	1
SUGAR BEETS	. . . . . .15,885,300	2	2
NURSERY STOCK	. . . . . .13,541,400	3	6
CATTLE & CALVES	. . . . . .12,593,000	4	5
FIELD CORN	. . . . . .12,535,500	5	4
WHEAT, IRRIGATED	. . . . . .10,718,500	6	3
ALFALFA HAY	. . . . . . 9,788,900	7	8
FEEDER LAMBS	. . . . . . 9,466,900	8	7
BEANS, EDIBLE, DRY ALL MARKET CLASSES	. . . . . . 7,517,300	9	9
PEARS	. . . . . . 4,700,800	10	11
GRAPES	. . . . . . 4,255,900	11	10
BEANS, SEED, DRY, ALL MARKET CLASSES	. . . . . . 3,907,800	12	15
WALNUTS	. . . . . . 3,376,300	13	14
MILK	. . . . . . 3,249,300	14	16
BARLEY, IRRIGATED	. . . . . . 2,952,400	15	12
PRUNES	. . . . . . 2,778,200	16	13
SUNFLOWER, SEED	. . . . . . 2,235,500	18	21
PASTURE, RANGELAND	. . . . . . 2,157,000	19	17
STOCK SHEEP	. . . . . . 1,915,200	20	18
SAFFLOWER OIL	. . . . . . 1,749,200	21	19
PASTURE, IRRIGATED	. . . . . . 1,537,500	22	20
BEANS, SEED, DRY, ALL MARKET CLASSES CERTIFIED	. . . . . . --	--	22
APRICOTS	. . . . . . --	--	23
KIWI	. . . . . . --	--	24

**SOLANO COUNTY
SUSTAINABLE AGRICULTURAL REPORT**

<u>Pest</u>	<u>Agent/Mechanism</u>	<u>Scope of Program *</u>
COUNTY BIOLOGICAL CONTROL		
Puncture Vine <i>Tribulus terrestris</i>	Stem & Seed Weevils <i>Microlarinus lypriformis</i> <i>Microlarinus lareynii</i>	2 Sites
Yellow Star Thistle <i>Centaurea solstitialis L.</i>	Seed Head Weevil <i>Bangasternus orientalis</i>	2 Sites
Elm Leaf Beetle <i>Xanthogaleruca luteola</i>	Population Monitoring Using Day Degrees	43 Trees 1 Site
PEST ERADICATION		
Artichoke Thistle <i>Cynara Cardunculus L.</i>	Mechanical/Chemical	Various Sites
PEST EXCLUSION		
Gypsy Moth <i>Lymantria dispar</i>	Household Shipments 537 Shipments Inspected	2 Rejected/ Destroyed

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ORGANIC FARMING STATISTICS

5 Farms 81 Estimated Acres

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

SOLANO COUNTY GENERAL INFORMATION

County SeatFairfield

County Population (January 1, 1990) 339,807

Benicia - 25,342	Dixon - 10,979	Fairfield - 80,803
Rio Vista - 3,469	Suisun - 21,431	Vacaville - 70,628
	Vallejo - 107,175	

State Ranking In 1989 For Agricultural Production Values27th

Ranking Among California Counties For Gross Value (1989):

- 2nd: Corn (For Grain) and Sheep & Lambs
- 4th: Pears and Tomatoes (Processing)
- 5th: Dry Beans and Wheat (Excluding Seed)

Total Secured Assessed Value\$13,357,064,622

Total Land Area in California (Acres, 1989)100,069,184 Acres

California Agricultural Land (Acres, 1989)31,000,000 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 Solano County (1987)895 Farms

Average U.S. Farm size (Acres, 1989)461 Acres

Average California Farm Size (Acres, 1989)362 Acres

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

Solano County Road Miles (As of May 5, 1990) 620.65 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

RailroadsSouthern Pacific

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