

**MONTEREY COUNTY  
AGRICULTURAL COMMISSIONER'S  
OFFICE**

**100 YEARS OF SERVICE**

**1893-1993**

**RICHARD W. NUTTER, AGRICULTURAL COMMISSIONER**

# MONTEREY COUNTY

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## AGRICULTURAL COMMISSIONER

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### RICHARD W. NUTTER

AGRICULTURAL COMMISSIONER  
ADMINISTRATOR OF WEIGHTS & MEASURES

Henry J. Voss, Director  
California Department of Food and Agriculture

and

The Honorable Board of Supervisors of Monterey County

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Barbara Shipnuck	2nd District
Tom Perkins	3rd District
Edith Johnsen	4th District
Sam Karas	5th District

In compliance with the provisions of Section 2279 of the California Food and Agricultural Code, I am pleased to submit the Monterey County Agricultural Crop Report for the calendar year 1993.

Monterey County continued its trend of annual gross increases with a record high of \$1,853,697,150 for 1993. This is nearly \$100,000,000, or 5.6% increase over 1992. This increase is rather surprising in that market prices were generally depressed for major portions of the year.

Head Lettuce and Strawberries, for instance, reported increases which were primarily due to increased acreage and harvested containers. Both commodities reported record highs in terms of acreage and in value.

Broccoli recorded dull markets throughout the year and a 6.6% decrease in total value. Several other vegetable crops, including Cauliflower, Leaf Lettuce, Green Onions, Celery, Asparagus, Artichokes, Cucumbers, Radishes, and Squash reported decreases for the year.

Some of the products showing increases were Tomatoes, Garlic, Carrots, Dry Onions, Brussels Sprouts, Spinach, Radicchio, Bok Choy, and Herbs.

The production of Leaf Lettuce, Artichokes, Broccoli, Cauliflower, and Head Lettuce continues to exceed 50% of the total United States production of these commodities.

Salad Products and Food Service Items continue their remarkable popularity by showing more than a 50% increase in production and value.

The Wine Grape crop established an all time high of more than \$100,000,000. This was accomplished with an increase in bearing acreage, price per ton, and tons per acre.

Imports continued to plague the greenhouse grown Cut Flower industry, as more than a 20% loss was reported for the year. Growers have responded to this competition by trying alternate crops, which are limited.

Livestock showed a modest gain as increased rainfall improved pasture conditions.

Exports to Japan increased by 50%, primarily as a result of increased demands of Broccoli. Total exports were down slightly, although overall shipments increased by 10%.

The end of the drought was welcomed by the agricultural industry, and provided some relief from increased pumping costs. The ground water overdraft was addressed by the agriculture community in complying with flow meter installation, and other water management requirements.

Overproduction continues to impact on market conditions as the volume of product exceeds the demand through much of the production year.

The year was not considered profitable by many growers, some who just broke even.

The values represented in this report are gross receipts of the producers, and do not take into account the various costs of production, marketing, or transportation. No attempt is made to reflect net income of the producer.

My thanks to the individuals and firms whose cooperation made this report possible, and to my staff members who coordinated and compiled this report.

Very truly yours,



Richard W. Nutter  
Agricultural Commissioner

RWN:mls

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This report was compiled under the direction of Gerry Willey, Deputy Agricultural Commissioner.

# AGRICULTURAL COMMISSIONER'S OFFICE

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Frances Pabrua

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**MEASUREMENT STANDARDS INSPECTORS**

Robert Hunter

Weights and Measures Inspector III

Carol Montgomery

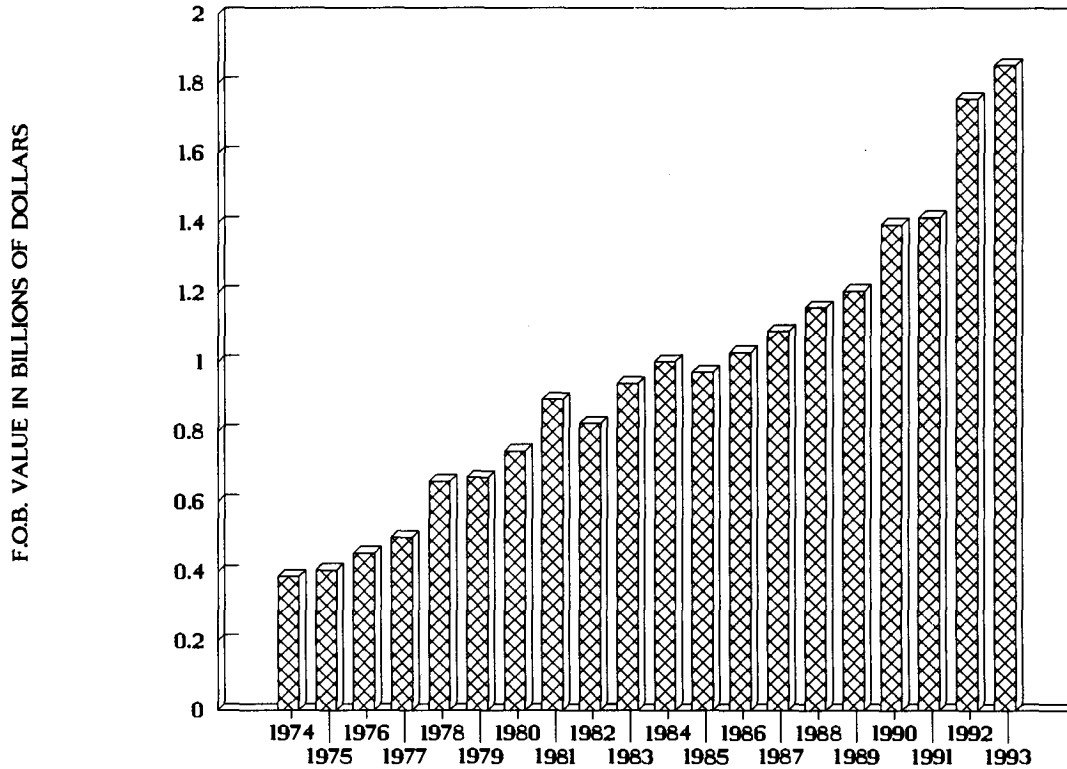
Weights and Measures Inspector III

Addison (Tad) Church

Weights and Measures Inspector I

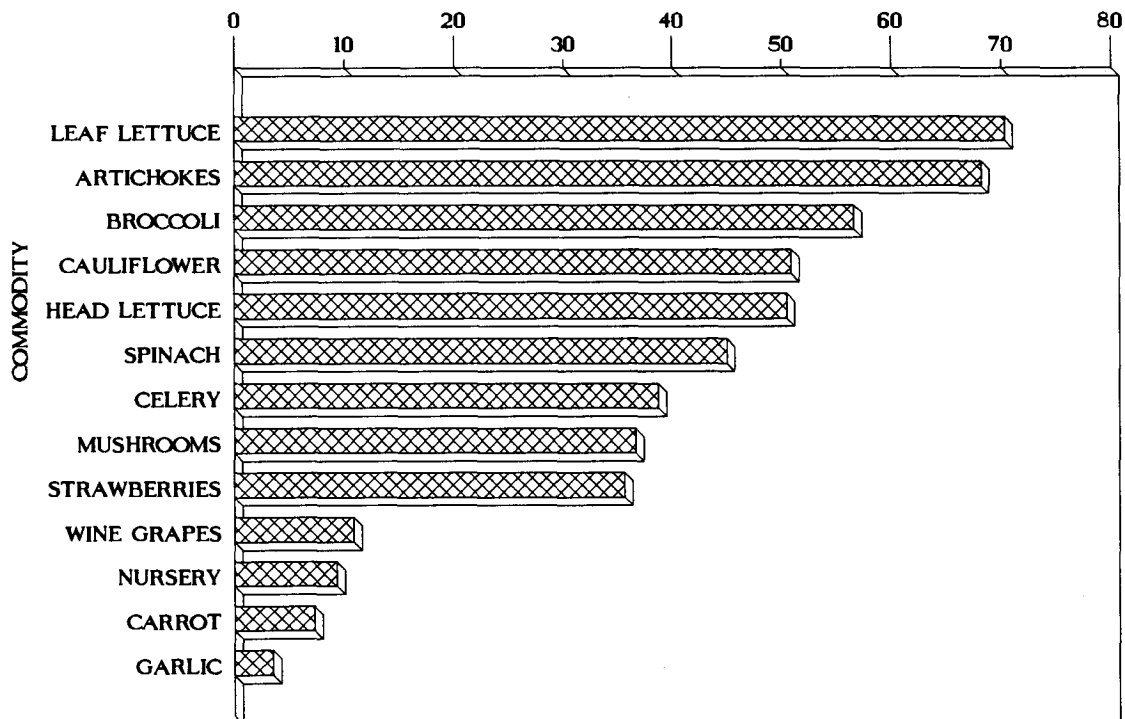
# MONTEREY COUNTY AGRICULTURE

20 YEAR SUMMARY



## MONTEREY COUNTY'S

SHARE OF U.S. TOTAL PRODUCTION  
PERCENT



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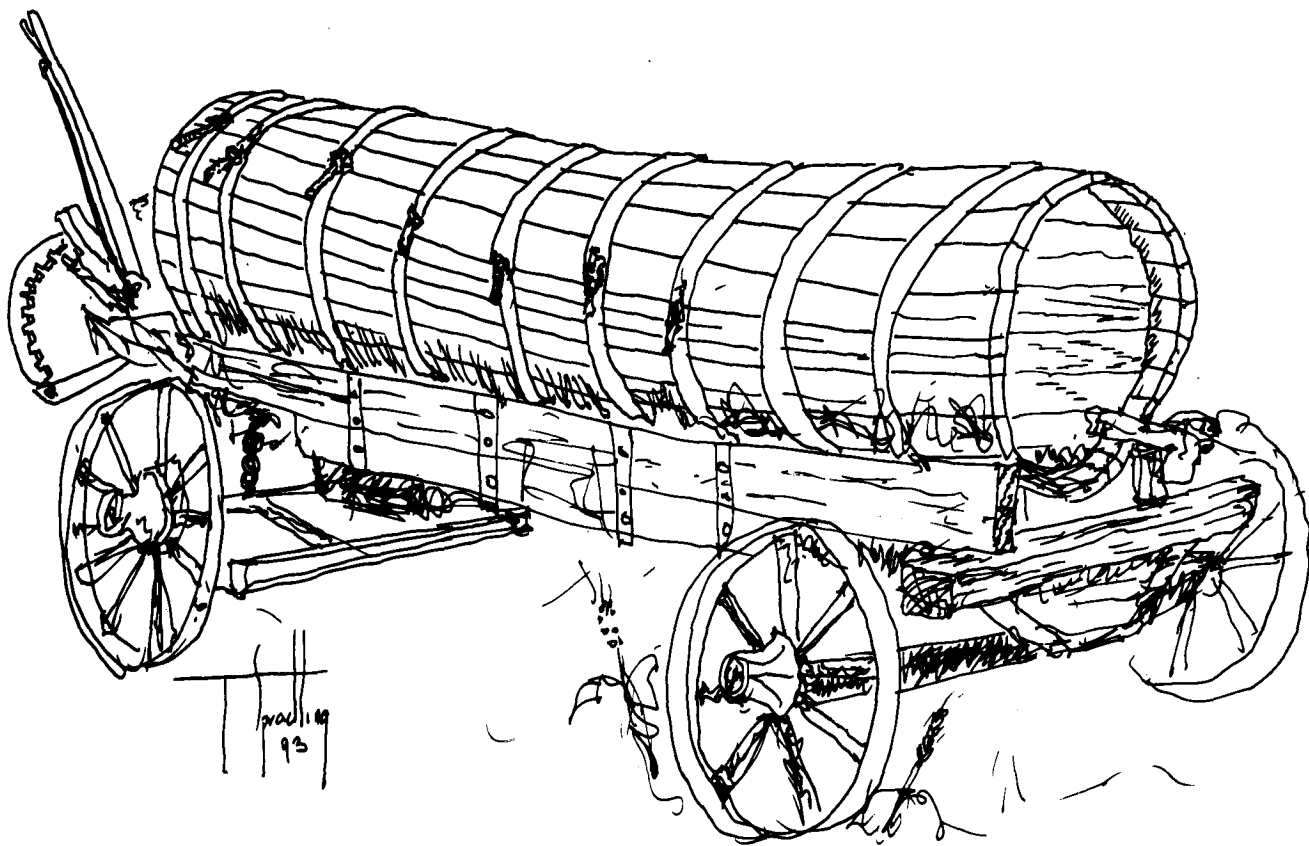
# APPROXIMATE WEIGHTS USED FOR FRESH MARKET CONVERSION

UNIT/CROP	POUNDS
<b>CARTON</b>	
APPLES	38
ARTICHOKES	23
ASPARAGUS	32
AVOCADOS	26
BOK CHOY	50
BROCCOLI	23
BRUSSELS SPROUTS	25
CABBAGE, All	50
CARROTS	50
CAULIFLOWER	23
CELERY	60
ENDIVE	25
ESCAROLE	25
KALE	20
KIWI FRUIT	7
LETTUCE, Head	50
LETTUCE, Leaf	25
NAPA	50
ONIONS, Green	13
PARSLEY	21
PEPPERS, Bell	30
ROMAINE	37
SALAD PRODUCTS	20
SPINACH	20
SQUASH	30
TOMATOES	25
 <b>CRATE</b>	
ANISE	37
 <b>SACK</b>	
CARROTS	50
ONIONS, Dry	50
 <b>SLIDE</b>	
BUSHBERRIES	9
RASPBERRIES	6
STRAWBERRIES	12
TOMATOES, Cherry	12

*(F.O.B values in this report include packing, harvesting, cooling, icing, pallets and any loading charges).*



# FRUITS AND NUTS



# FRUITS AND NUTS

CROP	YEAR	ACREAGE	PRODUCTION		UNIT	F. O. B. VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
APPLES	1993	290		4,515	TON		\$ 575,000
TOTAL	1992	316		3,620	"		606,000
Fresh	1993	96	13.23	1,270		\$ 156.70	199,000
	1992	156	10.71	1,670	"	192.00	321,000
Processing	1993	194	16.73	3,245		115.90	376,000
	1992	160	12.19	1,950	"	146.00	285,000
AVOCADOS	1993*	89	2.11	188		680.90	128,000
	1992**	41					
BUSHBERRIES	1993	36	7.58	273		2,216.10	605,000
	1992	82	8.90	730	"	1,831.20	1,337,000
CITRUS FRUIT	1993*	1,038	2.42	2,510		426.70	1,071,000
	1992**	591					
GRAPES	1993	31,998.37					101,973,000
	1992	32,404.12					75,036,000
KIWI FRUIT	1993	14.5	3.50	50.8		1,280.00	65,000
	1992	12	3.79	45.5	"	2,800.00	127,000
RASPBERRIES	1993	530	9.17	4,860	"	3,322.00	16,145,000
	1992	489	6.85	3,350	"	3,793.10	12,707,000
STRAWBERRIES	1993	8,346		202,930	"		213,943,000
TOTAL	1992	6,960		189,230	"		199,089,000
Fresh	1993		21.46	179,080		1,143.30	204,742,000
	1992		25.86	180,000	"	1,050.90	189,162,000
Processing	1993		2.86	23,850		385.80	9,201,000
	1992		2.97	20,700	"	479.55	9,927,000
WALNUTS	1993	336	1.34	451		1,290.50	582,000
	1992	334	1.17	392	"	1,303.60	511,000
<b>TOTAL ACRES</b>		<b>1993</b>	<b>42,677.87</b>	<b>FRUITS AND NUTS</b>		<b>\$ 335,087,000</b>	
		<b>1992</b>	<b>41,229.12</b>	<b>TOTAL VALUE</b>		<b>289,413,000</b>	

\*These totals include producing & non producing new plantings.

\*\*Insufficient to report due to severe winter freeze, 1991

# GRAPE SUPPLEMENTARY



**Mission Nuestra Senora  
De La Soledad  
Oct. 9, 1971**

# GRAPE SUPPLEMENTARY

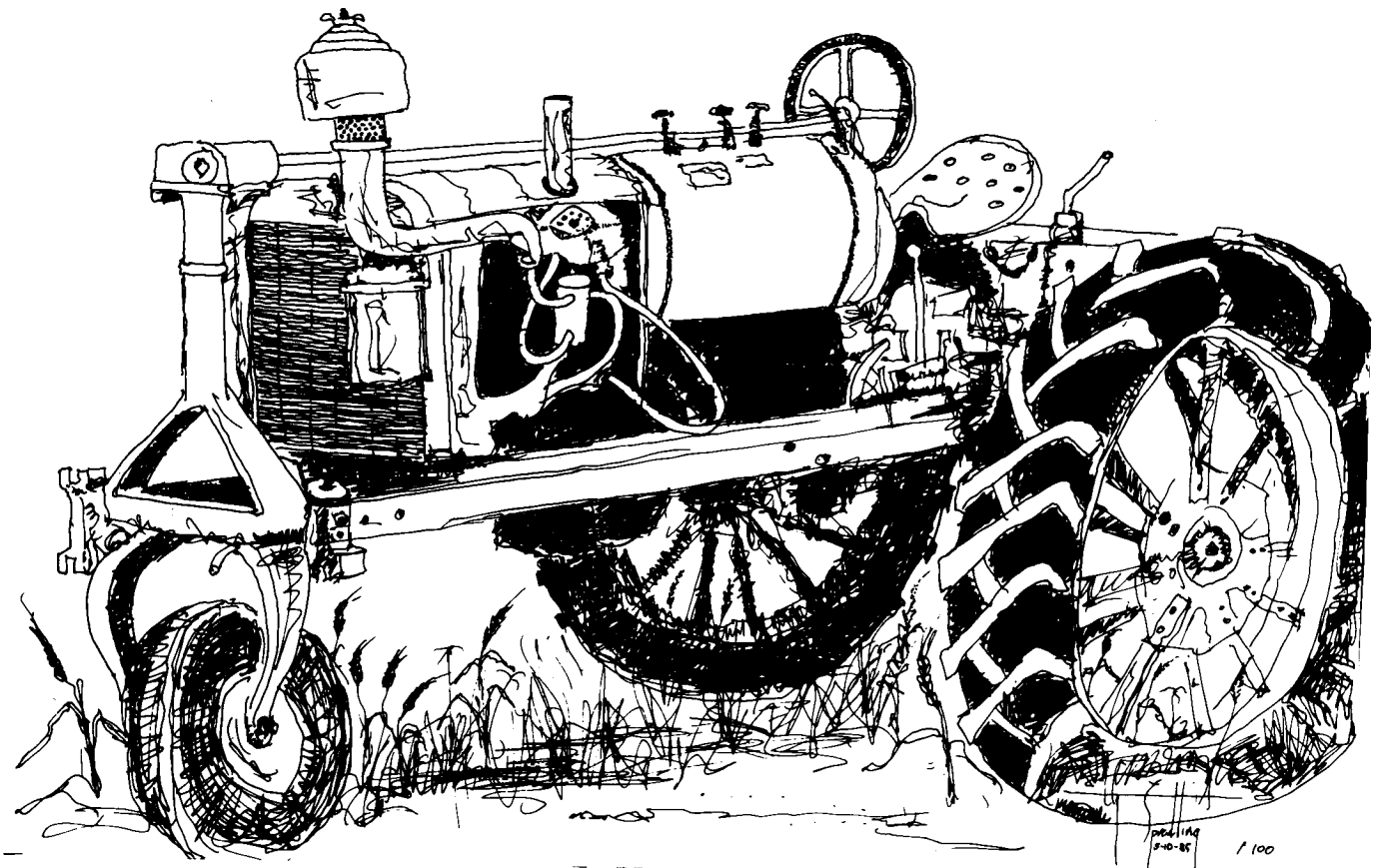
CROP	YEAR	ACREAGE	PRODUCTION		UNIT	F. O .B. VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
GRAPES	1993	26,801.49	5.01	134,407.93	TON	\$ 758.68	\$ 101,973,000
Nonbearing or not Harvested		5,196.88					
<b>TOTAL</b>		<b>31,998.37</b>					
GRAPES	1992	24,240.90	4.18	101,407.46	TON	739.95	75,036,000
Nonbearing or not Harvested		8,163.22					
<b>TOTAL</b>		<b>32,404.12</b>					

## TOTAL ACREAGE OF WINE GRAPES BY VARIETY

VARIETY	ACRES	AVERAGE PRICE PER TON
Cabernet Franc	225.69	\$ 754.46
Cabernet Sauvignon	4,097.49	803.23
Chardonnay	11,664.17	981.43
Chenin blanc	2,143.89	319.62
French Colombard	257.69	281.65
Gamay	289.69	435.37
Gamay Beaujolais	294.76	527.80
Gewurztraminer	705.66	566.75
Merlot	1,473.63	1,152.97*
Muscat blanc/Canelli	193.69	532.71
Petite Sirah	641.67	590.63*
Pinot blanc	1,153.64	553.07
Pinot noir	1,729.61	620.49
Sauvignon Blanc	1,633.62	652.29*
Semillon	449.68	463.02*
Sylvaner	404.00	300.00
White Riesling	2,113.59	457.71
Zinfandel	1,761.61	535.52*
Other Red	368.91	804.26
Other White	395.68	1,032.51
<b>TOTAL ACRES</b>	<b>31,998.37</b>	

\*CDFA weighted average price per ton

# VEGETABLE CROPS



# VEGETABLE CROPS

CROP	YEAR	ACREAGE	PRODUCTION			F. O. B. VALUE	
			PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
ANISE	1993	470	12.62	5,930	TON	\$ 380.00	\$ 2,253,000
	1992	474	12.71	6,026	"	416.00	2,507,000
ARTICHOKES TOTAL	1993	6,410					28,303,000
	1992	6,910					29,560,000
Fresh	1993		4.37	28,000	"	894.50	25,046,000
	1992		4.89	33,800	"	791.00	26,736,000
Processing (Regular)	1993		1.31	8,420	"	379.00	3,191,000
	1992		1.08	7,425	"	371.00	2,755,000
Processing (Culls)	1993		0.40	2,550	"	25.90	66,000
	1992		0.38	2,650	"	26.00	69,000
ASPARAGUS	1993	4,180	2.45	10,238	"	1,467.10	15,020,000
	1992	4,820	2.53	12,200	"	1,396.00	17,031,000
BOK CHOY	1993	943	16.13	15,210	"	259.70	3,950,000
	1992	628	12.28	7,710	"	311.30	2,400,000
BROCCOLI TOTAL	1993	58,905					227,061,000
	1992	60,840					243,195,000
Fresh	1993	50,845	7.38	375,000	"	476.70	178,763,000
	1992	49,000	7.59	372,000	"	512.50	190,650,000
Food Service	1993			21,962	"	1,499.00	32,921,000
	1992			17,800	"	1,596.23	28,413,000
Processing	1993	8,060	5.12	41,280	"	372.50	15,377,000
	1992	11,840	5.18	61,350	"	393.35	24,132,000
BRUSSELS SPROUTS TOTAL	1993	2,189					8,198,000
	1992	880					3,413,000
Fresh	1993	1,390	7.01	9,747	"	542.60	5,289,000
	1992	229	7.42	1,700	"	604.70	1,028,000
Processing	1993	799	7.58	6,060	"	480.00	2,909,000
	1992	651	7.99	5,200	"	458.65	2,385,000

## VEGETABLE CROPS - Continued

CROP	YEAR	ACREAGE	PRODUCTION		UNIT	F. O. B. VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
<b>CABBAGE, All</b>	1993	1,720	16.05	27,600	TON	\$ 207.60	\$ 5,730,000
	1992	842	17.65	14,860	"	182.91	2,718,000
<b>CARROTS TOTAL</b>	1993	4,340					24,611,000
	1992	3,750					19,421,000
<b>Fresh</b>	1993	1,710	23.07	39,450	"	232.10	9,156,000
	1992	1,540	24.31	37,430	"	308.20	11,536,000
<b>Food Service</b>	1993			4,390	"	1,128.90	4,956,000
	1992			1,430	"	1,180.40	1,688,000
<b>Processing</b>	1993	2,630	30.27	79,600	"	131.90	10,499,000
	1992	2,210	32.81	72,520	"	85.45	6,197,000
<b>CAULIFLOWER TOTAL</b>	1993	23,339					104,565,000
	1992	24,640					111,893,000
<b>White</b>	1993	20,540	7.85	161,190	"	531.50	85,672,000
	1992	20,800	7.03	146,200	"	613.61	89,710,000
<b>Green</b>	1993	839	6.64	5,570	"	556.60	3,100,000
	1992	1,470	5.92	8,700	"	599.80	5,218,000
<b>Food Service</b>	1993			5,092	"	2,204.10	11,223,000
	1992			4,140	"	2,503.10	10,363,000
<b>Processing</b>	1993	1,960	4.40	8,630	"	529.60	4,570,000
	1992	2,370	5.02	11,890	"	555.25	6,602,000
<b>CELERY TOTAL</b>	1993	8,021					62,898,000
	1992	7,789					65,674,000
<b>Fresh</b>	1993	7,760	35.44	275,000	"	212.70	58,493,000
	1992	7,510	36.49	274,000	"	231.80	63,513,000
<b>Food Service</b>	1993			2,793	"	1,182.60	3,303,000
	1992			966	"	1,162.50	1,123,000
<b>Processing</b>	1993	261	35.74	9,328	"	118.10	1,102,000
	1992	279	31.61	8,820	"	117.65	1,038,000

## VEGETABLE CROPS - Continued

CROP	YEAR	ACREAGE	PRODUCTION		F. O. B. VALUE		
			PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
CILANTRO	1993	454	12.40	5,629	TON	\$ 436.30	\$ 2,456,000
	1992	315	11.87	3,740	"	444.40	1,662,000
CUCUMBERS Processing	1993*						
	1992	260	24.62	6,400	"	195.78	1,253,000
GARLIC	1993	807	9.70	7,830	"	1,525.00	11,941,000
	1992	333	9.67	3,220	"	1,530.70	4,929,000
HERBS**	1993	135	3,607	487,000	BUNCH	3.60	1,753,000
	1992	161	3,332	536,500	"	1.38	740,000
KALE TOTAL	1993	970	6.88	6,675	TON	659.60	4,403,000
	1992	795	7.40	5,879	"	578.80	3,403,000
Fresh (All)	1993	970	6.59	6,390	"	608.00	3,885,000
	1992	795	7.11	5,650	"	526.70	2,976,000
Food Service	1993			285	"	1,817.50	518,000
	1992			229	"	1,864.60	427,000
LEEKs	1993	317	13.61	4,315	"	623.60	2,691,000
	1992	190	14.63	2,780	"	557.20	1,549,000
MISCELLANEOUS VEGETABLE TOTAL	1993	3,257					22,054,000
	1992	2,535					14,371,000
Fresh***	1993	2,720					12,917,000
	1992	2,236					7,423,000
Food Service****	1993			4,900	"	1,223.10	5,993,000
	1992			4,350	"	1,128.30	4,908,000
Processing*****	1993	537					3,144,000
	1992	299					2,040,000
MUSHROOMS	1993			44,734,000	LBS	1.00	44,734,000
	1992			42,532,000	"	1.03	43,808,000

\*No production in 1993

\*\*Includes: Chervil, Dill, Oregano, Rosemary, Sage, Thyme, etc.

\*\*\*Includes Beans, Beets, Cactus Pears, Cardone, Corn, Cucumbers, Daikon, Edible Flowers, Fava Beans, Fresh Peas, Gourds, Green Peppers, Kohlrabi, Rappini, Parsnips, Pimentos, Pumpkins, Turnips, etc.

\*\*\*\*Includes Onions, Radish, Mixed Vegetables, etc.

\*\*\*\*\*Includes Asparagus, Bushberries, Cabbage, Cilantro, Jalapeno, Dry Onions, Pimentos, Raspberries, Squash

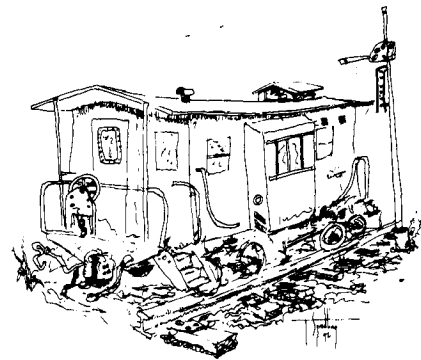
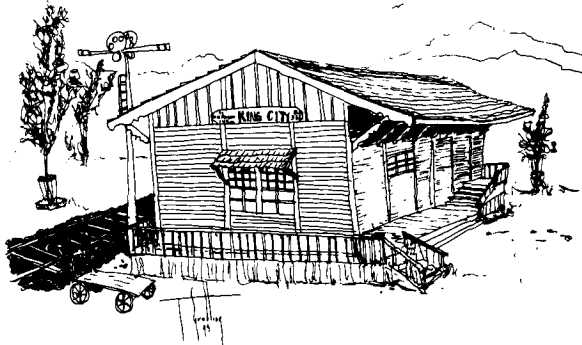


## VEGETABLE CROPS - Continued

CROP	YEAR	ACREAGE	PRODUCTION		UNIT	F. O. B. VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
<b>LETTUCE, Head</b>	<b>1993</b>						
Spring		24,440					
Summer		23,070					
Fall		25,255					
Naked Pack				20,410,000	CTN	\$ 6.41	\$ 130,828,000
Wrapped Pack				21,971,000	"	7.91	173,791,000
Bulk for Shredding				12,566,000	"	3.93	49,384,000
Bulk for Whole Cored Lettuce				238,000	"	7.60	1,809,000
<b>SEASON TOTAL</b>		<b>72,765</b>	<b>758.40</b>	<b>55,185,000</b>	<b>"</b>	<b>6.4476</b>	<b>355,812,000</b>
<b>LETTUCE, Head</b>	<b>1992</b>						
Spring		21,550					
Summer		21,100					
Fall		26,690					
Naked Pack				22,269,000	CTN	\$ 6.29	\$ 140,072,000
Wrapped Pack				20,009,000	"	7.79	155,870,000
Bulk for Shredding				9,779,000	"	4.02	39,312,000
Bulk for Whole Cored Lettuce				406,000	"	7.90	3,207,000
<b>SEASON TOTAL</b>		<b>69,340</b>	<b>756.61</b>	<b>52,463,000</b>	<b>"</b>	<b>6.4516</b>	<b>338,470,000</b>
<b>HEAD LETTUCE</b>	<b>1993</b>	<b>72,765</b>	<b>758.40</b>	<b>55,185,000</b>	<b>CTN</b>	<b>\$ 6.4476</b>	<b>\$ 355,812,000</b>
<b>TOTALS</b>	<b>1992</b>	<b>69,340</b>	<b>756.61</b>	<b>52,463,000</b>	<b>"</b>	<b>6.4516</b>	<b>338,470,000</b>

## VEGETABLE CROPS - Continued

CROP	YEAR	ACREAGE	PRODUCTION		UNIT	F. O. B. VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
BUTTER LETTUCE	1993	3,260	769.63	2,509,000	CTN	\$ 5.80	\$ 14,552,000
	1992	2,990	832.11	2,488,000	"	5.28	13,137,000
GREEN LEAF	1993	9,690	790.51	7,660,000	"	5.40	41,364,000
	1992	9,300	825.70	7,679,000	"	5.86	44,999,000
ENDIVE	1993	445	640.45	285,000	"	5.00	1,425,000
	1992	561	689.84	387,000	"	6.26	2,423,000
ESCAROLE	1993	362	660.22	239,000	"	4.90	1,171,000
	1992	378	767.20	290,000	"	6.49	1,882,000
RED LETTUCE	1993	3,990	802.76	3,203,000	"	5.40	17,296,000
	1992	4,020	842.79	3,388,000	"	5.39	18,261,000
ROMAINE	1993	12,510	755.48	9,451,000	"	6.00	56,706,000
	1992	10,900	776.42	8,463,000	"	6.58	55,687,000
LEAF LETTUCE	1993	30,257	771.62	23,347,000	CTN		\$ 132,514,000
TOTALS	1992	28,149	806.25	22,695,000	"		136,389,000



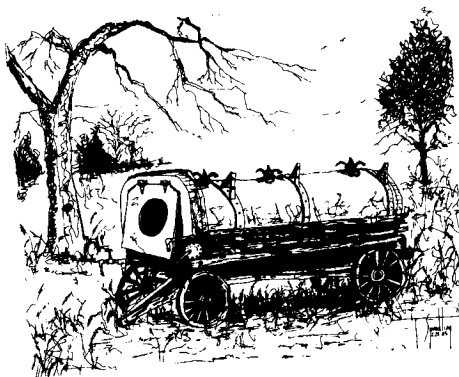
LETTUCE CROP	1993	103,022	HEAD & LEAF LETTUCE	\$ 488,326,000
TOTALS	1992	97,489	TOTAL VALUE	474,859,000

## VEGETABLE CROPS - Continued

CROP	YEAR	ACREAGE	PRODUCTION		TOTAL UNIT	F. O .B. VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
NAPA	1993	934	19.97	18,650	TON	\$ 260.40	\$ 4,856,000
	1992	655	17.94	11,750	"	297.00	3,490,000
ONIONS, Dry	1993	777	27.80	21,600	"	384.90	8,314,000
	1992	445	25.30	11,260	"	321.22	3,617,000
ONIONS, Green	1993	1,260	10.20	12,850	"	796.40	10,234,000
	1992	1,300	10.31	13,400	"	1,052.40	14,102,000
PARSLEY TOTAL	1993	1,583					5,981,000
	1992	1,390					5,129,000
Fresh	1993	653	9.16	5,980	"	497.30	2,974,000
	1992	673	9.03	6,075	"	504.03	3,062,000
Dry (Processing)	1993	930	2.81	2,615	"	1,149.90	3,007,000
	1992	717	2.47	1,770	"	1,167.80	2,067,000
PEPPERS, Bell TOTAL	1993	893					3,200,000
	1992	773					2,275,000
Fresh	1993	538	9.42	5,070	"	423.90	2,149,000
	1992	540	9.63	5,200	"	301.70	1,569,000
Processing	1993	355	14.34	5,090	"	206.50	1,051,000
	1992	233	14.10	3,285	"	214.90	706,000
PEPPERS, Chili Dry	1993	5,215	3.04	15,870	"	1,166.20	18,508,000
	1992	4,605	3.37	15,525	"	1,181.65	18,345,000
POTATOES	1993	1,460	17.75	25,915	"	180.00	4,665,000
	1992	897	17.80	15,970	"	182.00	2,907,000
RADICCHIO	1993	820	8.59	7,040	"	461.10	3,246,000
	1992	139	8.92	1,240	"	710.50	881,000
RADISH	1993	738	6.06	4,470	"	730.00	3,263,000
	1992	875	6.35	5,560	"	698.70	3,885,000
SALAD PRODUCTS Shredded	1993			16,411,000	CTN	7.80	128,006,000
	1992			10,720,000	"	7.53	80,722,000

## VEGETABLE CROPS - Continued

CROP	YEAR	ACREAGE	PRODUCTION		F. O. B. VALUE	
			PER ACRE	TOTAL UNIT	PER UNIT	TOTAL
<b>SPINACH</b>	<b>1993</b>	<b>5,670</b>				<b>\$ 42,635,000</b>
<b>TOTAL</b>	<b>1992</b>	<b>5,825</b>				<b>40,501,000</b>
<b>Fresh</b>	<b>1993</b>	<b>2,720</b>	<b>8.90</b>	<b>24,200 TON</b>	<b>\$ 548.20</b>	<b>13,266,000</b>
	<b>1992</b>	<b>2,845</b>	<b>9.63</b>	<b>27,400 "</b>	<b>611.20</b>	<b>16,747,000</b>
<b>Food Service</b>	<b>1993</b>			<b>10,100 "</b>	<b>2,361.00</b>	<b>23,846,000</b>
	<b>1992</b>			<b>8,110 "</b>	<b>2,376.30</b>	<b>19,272,000</b>
<b>Processing</b>	<b>1993</b>	<b>2,950</b>	<b>14.69</b>	<b>43,350 "</b>	<b>127.40</b>	<b>5,523,000</b>
	<b>1992</b>	<b>2,980</b>	<b>11.02</b>	<b>32,850 "</b>	<b>136.45</b>	<b>4,482,000</b>
<b>SQUASH, Fresh</b>	<b>1993</b>	<b>530</b>	<b>12.43</b>	<b>6,590 "</b>	<b>350.10</b>	<b>2,307,000</b>
	<b>1992</b>	<b>620</b>	<b>12.76</b>	<b>7,910 "</b>	<b>351.33</b>	<b>2,779,000</b>
<b>TOMATOES</b>	<b>1993</b>	<b>4,175</b>				<b>27,932,000</b>
<b>TOTAL</b>	<b>1992</b>	<b>4,357</b>				<b>17,916,000</b>
<b>Fresh</b>	<b>1993</b>	<b>3,675</b>	<b>17.07</b>	<b>62,720 TON</b>	<b>426.50</b>	<b>26,750,000</b>
	<b>1992</b>	<b>3,700</b>	<b>13.64</b>	<b>50,480 "</b>	<b>332.10</b>	<b>16,764,000</b>
<b>Processing</b>	<b>1993</b>	<b>500</b>	<b>41.12</b>	<b>20,560 "</b>	<b>57.50</b>	<b>1,182,000</b>
	<b>1992</b>	<b>657</b>	<b>31.08</b>	<b>20,420 "</b>	<b>56.40</b>	<b>1,152,000</b>
<b>TOMATOES</b>	<b>1993</b>	<b>230</b>	<b>6.70</b>	<b>1,540 "</b>	<b>759.70</b>	<b>1,170,000</b>
<b>Cherry</b>	<b>1992</b>	<b>207</b>	<b>6.62</b>	<b>1,370 "</b>	<b>748.90</b>	<b>1,026,000</b>



<b>TOTAL ACRES*</b>	<b>1993</b>	<b>243,764</b>	<b>VEGETABLE CROPS</b>	<b>\$ 1,325,264,000</b>
	<b>1992</b>	<b>235,739</b>	<b>TOTAL VALUE</b>	<b>1,241,961,000</b>

\*Total acreage represents multiple plantings.

## JIM BARDIN RANCH

The Bardin family has been traced back to Jacob Bardin who was born in 1705 in North Carolina. His grandson, William Bardin, married Nancy Cook who was born in 1789.

Jacob (1705 to 1787) was the father of James (1730 to 1805). James, from North Carolina, was a corporal in the Revolutionary Army.

After James was a son, William, who fathered James (1810 to 1888). James, also born in Wayne County, North Carolina, was the original Bardin who came to California. James was father of 10 children, 6 born in Mississippi and 4 in California.

Previously, James at age 20 had gone to Alabama. Then after leaving Alabama, he pushed farther west to Tippah County, Mississippi, where he raised 6 children. In 1855 James, at the age of 45, left his family to seek farm land in the promising West. He left Independence, Missouri, on April 28, 1855 and arrived at Yreka, California, on August 11th.

After arriving in Yreka, James apparently went to Sacramento, then to San Francisco, and he eventually found land to his liking in the Salinas Valley. He bought land and returned the same year to Mississippi (either by way of the Isthmus or around the Horn) to bring his family west. In March, 1856, he brought his wife and six children via the Isthmus of Panama and the steamer "Cortez" to San Francisco.

James and Lucinda, his wife, (maiden name Lucinda Walker, born in South Carolina, 1818) had four more children after settling in the Salinas Valley: James, father of Jim G. and Marie, Charles, Lucinda, and Jacob. All of the ten children, except John who died young, married and had children of their own. When the girls married, new names appeared in the family tree: Elizabeth married James McDougal (McDougal building in Salinas), Mary Jane married I. J. Monroe and moved to Texas and Lucinda married Robert Porter, Salinas farmer.

James was the father of Jim G. and Marie (deceased) of Salinas. All of the Bardins were farmers of past generations. But of all those farmers of past generations who bore the Bardin name, Jim G. Bardin is the only one still engaged in agriculture.

James Bardin, father of Jim G. and Marie was a successful farmer and cattleman from his younger age to the late 1800's and early 1900's when he was the principal sugar beet grower for Claus Spreckels when the world's largest beet sugar factory was built in 1898.

Along with sugar beets, James rotated with Burbank potatoes and at one time was considered the "potato king" of the world. He raised cattle also and helped pioneer the use of beet by-products in feeding cattle.

During those years, James Bardin built for the city of Salinas the Jim Bardin Hospital. He disliked the name James.

-Jim G. and his sister Marie, were both born in the Jim Bardin Hospital.

The mother of Jim and Marie was Lena Petersen who was born in 1875 in Denmark, the daughter of a blacksmith. The whole Petersen family with eleven children, eventually emigrate to California and the Salinas Valley. James and Lena were married in 1906.

Jim attended Salinas schools and later graduated from Stanford University with the class of 1930.

Jim took over management of the ranches, both farming and beef cattle, upon the death of his father in 1932. His first wife Laurine Nissen of Salinas, died in 1956, and his second wife, Mary, was killed in a ranch Jeep accident in 1970. Jim's son, Robert, died of leukemia in 1983. His present wife, Dorothy Swanson, came from Hollister. Through Dorothy, Jim has three step-children, Robert, Lillian and Margareta Swanson.

Jim has retired from farming but still operates the ranch east of Salinas.

The cattle ranch is part of Cienega del Gabilan Rancho which originally consisted of eleven square leagues (48,780 acres). Cienega del Gabilan Rancho was first owned by Antonio Chavez who claimed the property was a grant from Mexican governor Michettorena in 1843. The ranch later became the property of Jesse D. Carr. From Carr, James and Henry Bardin bought 17,000 acres. James and Henry divided the ranch (and other properties) in 1920. At present, Jim owns 8,000 acres of the land which is east of Salinas and extends from Old Stage Road to Fremont Peak.

He was elected in 1935, the first President of the Monterey County Cattlemen's Association. He has served as First Vice President of California Cattlemen's Association; as a director of the California Rodeo for fifty-three years; has been foreman of the Monterey County Grand Jury; he was President of the Monterey County Tax Council; he served twenty-five years on the Water Advisory Commission of the Salinas Valley. During the last fifty years, Jim has been a director and now President of Farmers Mercantile Company of Salinas.

At present, Jim G. Bardin and his step-daughters "ride the range" and care for their cattle on the ranch.

**JIM BARDIN**

**B F**

**EADE FAMILY HISTORY  
IN  
MONTEREY & SAN BENITO COUNTIES**

The first Eade family arrived in Monterey county in 1884 -- 110 years ago. The fifth generation from this family are still farming and ranching in Monterey and San Benito counties, and a sixth generation is on the ground. However, this story begins 142 years ago.

The first Eade to reach California was Joseph Eade Jr. He arrived in Hangtown, El Dorado Co. in late summer of 1852. He was 21. His father Joseph, a Tin miner from Cornwall, England died of cholera during this trek and was buried by his son somewhere on the plains of Nebraska on June 4, 1852.

Joseph worked gold claims on the Middle Fork of the American River near Spanish Dry Diggings and Georgetown along with Heman Tompkins, Andrew Copley and Cuthbert Natrass.

Natrass had arrived in California in 1848 and in 1850 built an Inn near Spanish Dry Diggings called Hoboken House. He had a large family which included four daughters. Eade, Copley and Tompkins married three of these sisters.

Joseph and Sarah Jane Natrass were married on January 2, 1857. MARY ANN, the first of 14 children was born that same year. Their second child EMMA was born in 1859. One year later they moved to Elizabeth, Illinois, where Joseph and his father had left eight years earlier. Eleven more children were born here from 1861 through 1883; ALLIE, JOE, MINNIE, NANCY, ELFREDA, WILLIAM, WESLEY, RAYMOND, ALVIN, GRACE & HEMAN.

In 1884, Joseph's mother, Nancy Truscott Eade died at age 82. On November 10th of that year, Joseph and Jane with twelve of thirteen children left Illinois by train for California. Mary Ann, their first born, had died there at age six. The Eade family arrived in Soledad, Monterey County, via Southern Pacific RR., and were met by Heman Tompkins (their brother-in-law). They loaded up into two wagons and went East to the Peach Tree Valley where Tompkins had settled after leaving the Gold Fields in 1865. Andrew Copley, the other brother-in-law, had also settled in the area in 1869.

The Eade family lived and worked on one of Heman Tompkin's ranches for 7 years helping farm 1500 acres and grazing cattle and sheep on 10,000 acres of deeded and leased land. During this period, MARY ANN, the fourteenth child was born at the Peach Tree in 1886. She was given the name of their first daughter who had died twenty three years earlier.

In 1891 Joseph Eade purchased Government Land in Sweetwater Valley eight miles East of King City. He moved his family there and raised grain, hay & cattle.

In 1898-99 a severe drought forced them to move their stock. All horses and cattle that could travel were driven North to Calvaras County to graze on Government Land. One horse was left behind. The oldest boys drove the stock and herded them until they returned. The younger children stayed at the ranch. Their job was to dig up tree roots with a kitchen knife to feed the horse.

In 1900 Joseph and Jane Eade retired from the ranch and moved into King City where they spent the rest of their lives. All of their thirteen children married. Nine of these families settled in Monterey and San Benito Counties. They purchased and Homesteaded over 46,500 acres of land and raised grain, hay, cattle, horses, sheep, hogs and many children. The SEVEN EADE SISTERS married into the MEETER, WILEY, CONRAD, BENGARD, COREY, NICHOLS & BRAY families and had a total of 24 children, (12 Boys & 12 Girls). The last four families settled in the area. The SIX EADE BROTHERS married into the BOYCE, CHURCH, BRAY, TOFFT, RUSSELL & LONGACRE families and had a total of 17 children (9 boys & 8 girls). All but the oldest (Joe) settled in the area.

Of the 41 Grandchildren of Joseph and Jane Eade, 10 and/or their descendants are still involved in Agriculture in Monterey and San Benito Counties. These include Eades, Brays, Bengards, Carters, Kesters and Grabs. They own or control over 100,000 acres of land and continue to raise grain, hay, cattle, horses, sheep, hogs and children. In addition they farm irrigated hay, row crops and grapes; operate Cattle Feeding, Livestock Brokerage and Livestock Import & Export Businesses; and provide guided hunting tours and other outdoor recreation on the land.

The Eade family have been a part of Monterey and San Benito Counties Agriculture through Floods and Droughts, Inflation, Recessions & Depressions. They have enjoyed the good times and survived the bad ones. They have witnessed the technical advances in Agriculture management, marketing and equipment; and genetic improvement of plants and livestock. Most importantly, they have endeavored to bring about the necessary changes in management from one generation to the next to stay competitive. Most Agriculture families know this is not an easy task. This "Change of the Guard" has occurred three times, with the fifth generation currently "gearing up." One trait that is evident in the Family is the closeness to the land and the livestock. These always came first. The hour of the day, the day of the week, Holidays and Special Events or personal problems have never packed much weight. The land and the livestock have always had priority.

One of many stories that have been told relate to this: On October 15, 1907, (after the Harvest) Joseph Eade's Son, Alvin, and Daughter, Mary Ann, married Ethel Russell and Albert Bray in a double ceremony that took place in Salinas. After the services, the two couples boarded the train and headed South to Honeymoon in Los Angeles. A storm had blown in and was pouring rain when the train went through King City. Joseph got mad and could not understand why Alvin and Albert did not stop in King City, get off the train and go cover up their Hay.

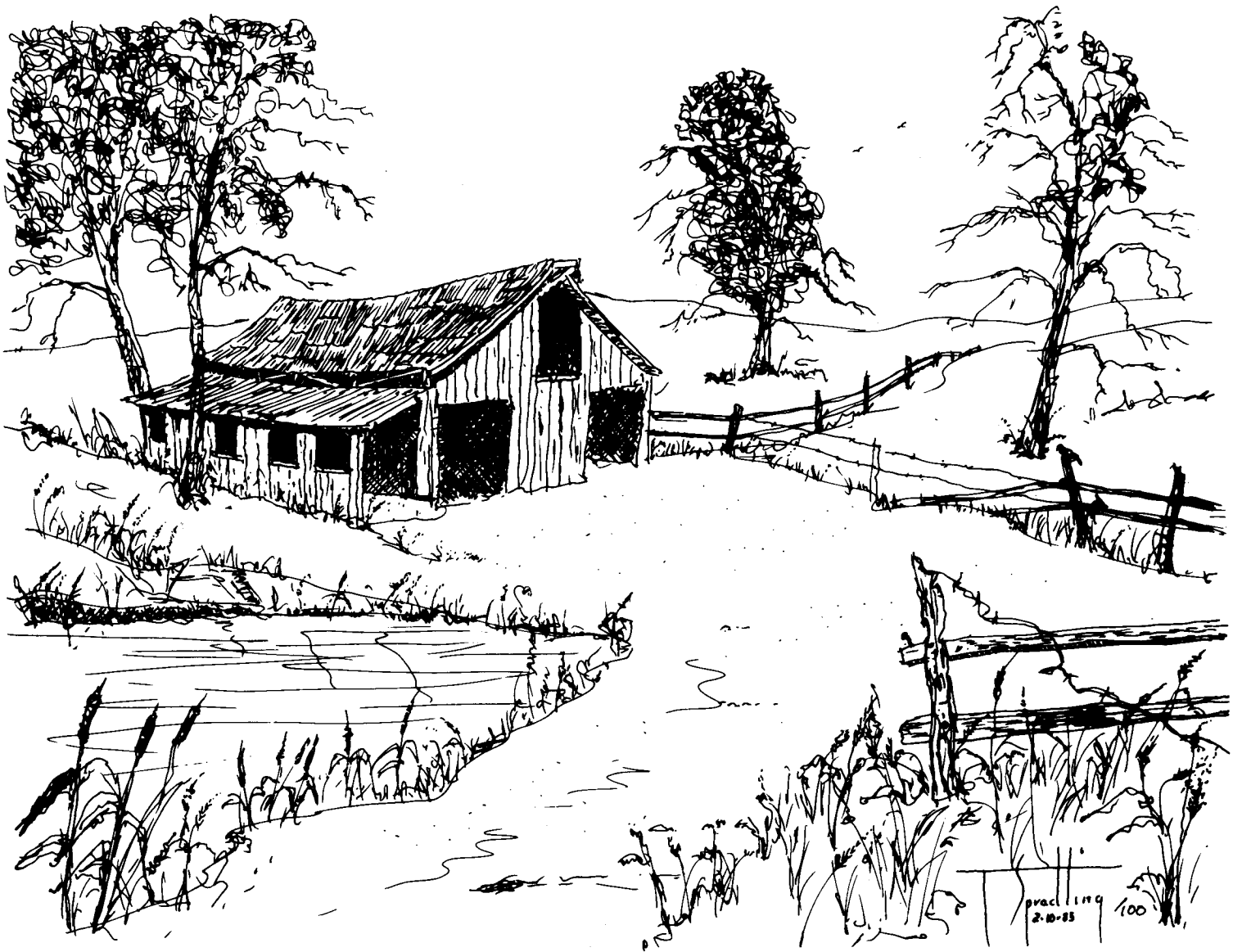
Some things will never change.

BRUD EADE 2/8/94

OE



**FIELD CROPS**



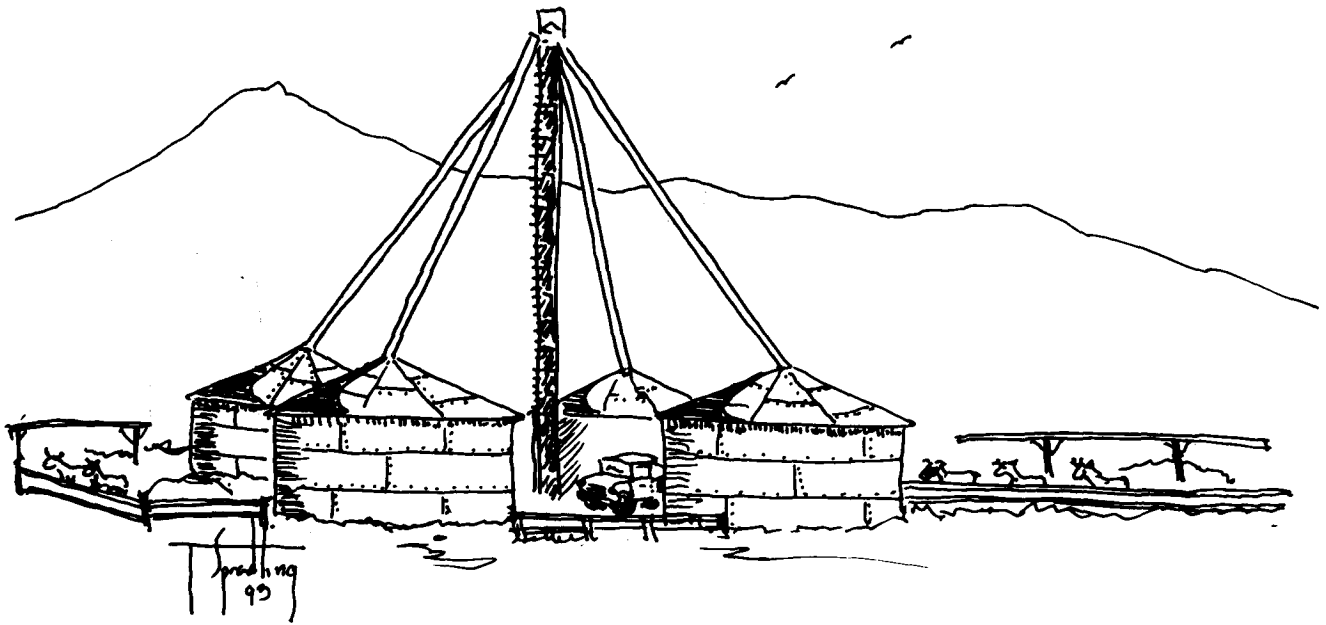
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## FIELD CROPS

CROP	YEAR	ACREAGE	PRODUCTION		F. O .B. VALUE		
			PER ACRE	TOTAL UNIT	PER UNIT	TOTAL	
BARLEY, Grain	1993	11,000	1.20	13,200	TON	\$ 95.60	\$ 1,262,000
	1992	13,700	1.12	15,400	"	105.00	1,617,000
BEANS, Dry Large Lima	1993	950	0.92	870	"	1,039.10	904,000
	1992	2,100	1.11	2,330	"	899.00	2,095,000
BEANS, MISC. Dry	1993	119	1.18	141	"	723.40	102,000
	1992	234	1.16	271	"	734.00	199,000
HAY, Alfalfa	1993	1,993	5.92	11,800	"	120.00	1,416,000
	1992	2,436	5.62	13,700	"	85.80	1,175,000
HAY, Barley	1993	743	2.75	2,040	"	144.10	294,000
	1992	593	2.34	1,390	"	105.00	146,000
HAY, Oat	1993	640	1.55	992	"	247.00	245,000
	1992	240	1.34	321	"	190.00	61,000
PASTURE Dry Land	1993	1,107,500			ACRE	6.50	7,199,000
	1992	1,107,500			"	6.50	7,199,000
PASTURE Irrigated	1993	500	1AU*	500	"	144.00	72,000
	1992	500	1AU*	500	"	144.00	72,000
SAFFLOWER	1993	2,700	0.70	1,890	"	287.80	544,000
	1992	3,288	0.27	894	"	300.00	268,000
SUGAR BEETS**	1993	1,313	33.61	44,125	TON	34.30	1,513,000
	1992	1,800	35.56	64,000	"	34.30	2,195,000
WHEAT, Grain	1993	2,300	1.46	3,358	"	104.00	349,000
	1992	792	1.52	1,200	"	110.00	132,000
<b>TOTAL ACRES</b>		<b>1993 1,129,758</b>	<b>FIELD CROPS</b>			<b>\$ 13,900,000</b>	
		<b>1992 1,133,183</b>	<b>TOTAL VALUE</b>			<b>15,159,000</b>	

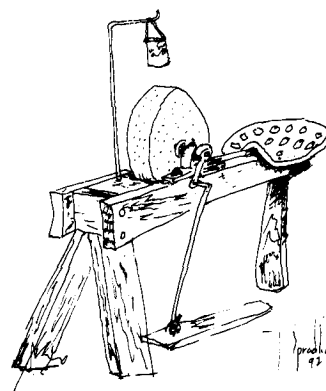
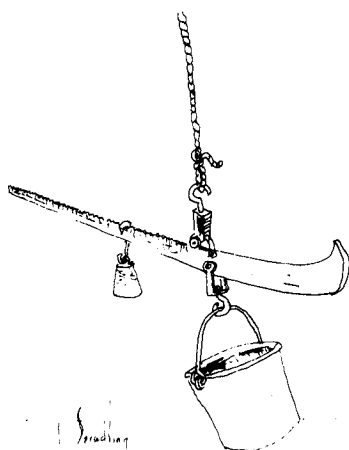
\*AU = 1000 LB animal unit: Formula 1AU/Acre/Year @ \$12.00/month x \$12/month = \$144/year x 500 AU = \$72,000  
 \*\* Total acreage represents multiple plantings.

# SEED CROPS



# SEED CROPS

CROP	YEAR	ACREAGE	PRODUCTION		UNIT	F. O. B. VALUE	
			PER ACRE	TOTAL		PER UNIT	TOTAL
ASPARAGUS	1993*						
	1992	100	0.07	6.70	TON	\$ 3,300.00	\$ 22,100
BEANS, All	1993	2,970	1.27	3,760.00	"	1,270.00	4,775,000
	1992	4,350	1.25	5,420.00	"	1,300.00	7,046,000
BROCCOLI	1993	144	0.06	8.52	"	49,530.50	422,000
	1992	100	0.08	7.65	"	47,642.00	364,000
CAULIFLOWER	1993	166	0.14	23.00	"	44,478.30	1,023,000
	1992	122	0.12	15.00	"	39,749.00	596,000
PEPPERS, All	1993*						
	1992	12	0.41	4.90	"	13,069.00	64,000
MISC. SEED***	1993	1,340					1,159,000
	1992**	1,360					400,000



<b>TOTAL ACRES****</b>	<b>1993</b>	<b>4,620</b>	<b>SEED CROPS</b>	<b>\$ 7,379,000</b>
	<b>1992</b>	<b>5,954</b>	<b>TOTAL VALUE</b>	<b>8,416,100</b>

\*Included in misc. seeds for 1993

\*\*Corrected figures.

\*\*\*Misc Seed includes Asparagus, Barley, Cabbage, Carrots, Corn, Celery, Flower, Grass, Kale, Parsley, Peas, Peppers, Radish, Wheat.

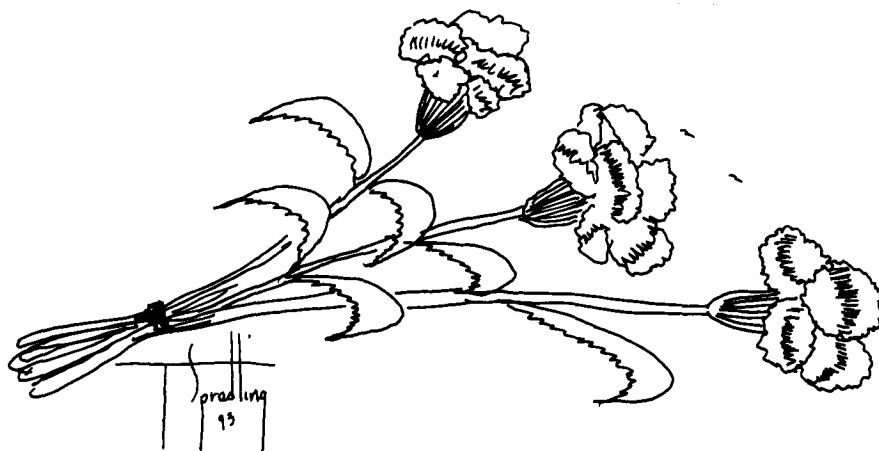
\*\*\*\*Total acreage represents multiple plantings.

# NURSERY CROPS



# NURSERY CROPS

CROP	YEAR	ACREAGE	AMOUNT SOLD	AVERAGE PRICE	TOTAL
<b>GREENHOUSE CUT FLOWERS</b>			<b>BLOOMS SOLD</b>	<b>PER BLOOM</b>	
<b>ROSE</b>	1993	180.40	81,304,000	\$ 0.23	\$ 18,700,000
	1992	184.87	94,938,000	0.2526	23,981,000
<b>MINIATURE ROSE</b>	1993	12.40	14,060,000	0.16	2,250,000
	1992	12.72	12,927,000	0.1903	2,460,000
<b>CARNATION</b>	1993	189.80	114,829,000	0.13	14,928,000
	1992*	214.77	126,209,000	0.1447	18,262,000
<b>CHRYSANTHEMUM (Standard)</b>	1993	17.40	4,509,000	0.43	1,939,000
	1992	17.48	4,509,000	0.4318	1,947,000
<b>GARDENIA</b>	1993		87,000	1.40	122,000
	1992		261,000	1.30	339,000
<b>ORCHID</b>	1993		120,000	2.20	264,000
	1992		110,000	2.01	221,000
			<b>BUNCHES SOLD</b>	<b>PER BUNCH</b>	
<b>CARNATION (Miniature)</b>	1993	43.60	2,401,000	1.27	3,049,000
	1992*	44.30	2,771,000	1.23	3,528,000



<b>TOTAL INDOOR CUT FLOWERS</b>	1993	443.60	<b>INDOOR CUT FLOWERS</b>	\$ 41,252,000
	1992*	459.10	<b>TOTAL VALUE</b>	53,622,000

\*Corrected figures

## NURSERY CROPS - Continued

CROP	YEAR	ACREAGE	AMOUNT SOLD	AVERAGE PRICE	TOTAL
<b>FIELD GROWN CUT FLOWERS</b>			<b>BUNCHES SOLD</b>	<b>PER BUNCH</b>	
<b>ALSTROEMERIA</b>	<b>1993</b>	<b>30.80</b>	<b>1,078,000</b>	<b>\$ 1.58</b>	<b>\$ 1,703,000</b>
	1992	26.50	1,265,000	1.38	1,746,000
<b>CALLAS</b>	<b>1993*</b>				
	1992	150.00	3,572,000	0.54	1,929,000
<b>EUCALYPTUS</b>	<b>1993</b>	<b>432.40</b>	<b>2,654,000</b>	<b>2.30</b>	<b>6,104,000</b>
	1992	373.40	1,914,000	2.52	4,823,000
<b>GYPSOPHILIA</b>	<b>1993</b>	<b>2.75</b>	<b>34,800</b>	<b>1.95</b>	<b>68,000</b>
	1992	12.80	81,600	1.88	153,000
<b>IRIS</b>	<b>1993</b>	<b>46.05</b>	<b>1,540,000</b>	<b>1.23</b>	<b>1,894,000</b>
	1992	246.00	9,707,000	2.00	19,414,000
<b>SEAFOAM</b>	<b>1993</b>	<b>3.50</b>	<b>20,000</b>	<b>1.55</b>	<b>31,000</b>
	1992	13.30	85,000	1.50	128,000
<b>SNAPDRAGON</b>	<b>1993</b>	<b>5.20</b>	<b>514,000</b>	<b>0.78</b>	<b>401,000</b>
	1992	10.20	594,000	1.02	606,000
<b>STATICE</b>	<b>1993</b>	<b>60.70</b>	<b>702,000</b>	<b>1.00</b>	<b>702,000</b>
	1992	32.90	201,000	1.35	271,000
<b>POTTED PLANTS</b>			<b>PLANTS SOLD</b>	<b>PER PLANT</b>	
<b>BEDDING PLANTS</b>					
<b>Commercial</b>	<b>1993**</b>	<b>47.10</b>	<b>739,384,000</b>		<b>17,929,000</b>
<b>Vegetable</b>	1992	51.30	716,609,000		17,844,000
<b>ORCHIDS</b>	<b>1993</b>	<b>8.30</b>	<b>280,000</b>	<b>12.57</b>	<b>3,520,000</b>
	1992	8.55	170,000	13.37	2,273,000
<b>POINSETTIA</b>	<b>1993</b>	<b>12.30</b>	<b>1,837,000</b>	<b>4.47</b>	<b>8,211,000</b>
	1992	14.90	2,422,000	3.93	9,518,000
<b>PROPAGATIVE***</b>	<b>1993</b>	<b>25.50</b>	<b>14,760,000</b>		<b>5,412,000</b>
<b>STOCK</b>	1992****	23.40	17,385,000		7,454,000

\*Included in misc. for 1993

\*\*Includes Celery, Lettuce, Broccoli, Cauliflower

\*\*\*Includes: Bedding plants, Carnations, Grape cuttings, Mums, Roses

\*\*\*\*Corrected Figure

## NURSERY CROPS - Continued

CROP	YEAR	ACREAGE	AMOUNT SOLD		AVERAGE PRICE	TOTAL
			PLANTS SOLD	PER PLANT		
<b>MISCELLANEOUS</b>	<b>1993*</b>	<b>54.40</b>	<b>10,932,000</b>		<b>\$ 1.36</b>	<b>\$ 14,868,000</b>
Indoor Decorative	1992	44.70	8,603,000		1.57	13,507,000
<b>OUTDOOR</b>	<b>1993</b>	<b>64.80</b>	<b>1,809,000</b>		<b>2.93</b>	<b>5,300,000</b>
Woody Ornamentals	1992	66.40	2,111,000		3.05	6,439,000
<b>MISC FIELD CROPS**</b>	<b>1993</b>	<b>630.30</b>				<b>8,946,000</b>
Succulents, Bulbs	1992	471.40				7,614,000
			TREES SOLD	PER TREE		
<b>CHRISTMAS</b>	<b>1993</b>	<b>101.00</b>	<b>9,320</b>		<b>18.67</b>	<b>174,000</b>
TREES	1992	105.00	9,500		19.68	187,000
<b>TOTAL ACRES***</b>	<b>1993</b>	<b>1,968.70</b>	<b>NURSERY CROPS</b>			<b>\$ 116,515,000</b>
	1992	2,151.15	<b>TOTAL VALUE</b>			<b>147,528,000</b>

\*Includes: African Violet, Cyclamen, Dieffenbachia, Ficus sp., Gloxinia, Kalanchoe, Potted Mums, Seasonal potted plants (Easter Lily, etc), Spathiphyllum, Spring bulbs.

\*\*Includes: Agapanthus, Bulbs, Cactus, Cornflower, Colum Stock, Curly willow, Dianthus, Foliage, Foxglove, Freesia, Godetia, Heather, Larkspur, Leptospermum, Lilies, Myrtle, Stock, Succulents, Strawflower, Sunflower, Thistles, Tillandsia, Turf, Yarrow, etc.

\*\*\*Total acreage represents multiple plantings.

## APIARY

CROP	YEAR	COLONIES	PRODUCTION	UNIT	F.O.B. VALUE	
					PER UNIT	TOTAL
<b>HONEY</b>	<b>1993</b>		<b>39,000</b>	<b>LBS</b>	<b>\$ 0.50</b>	<b>\$ 19,500</b>
	1992		36,000	"	0.50	18,000
<b>POLLINATION*</b>	<b>1993</b>	<b>2,420</b>		<b>COLONY</b>	<b>21.50</b>	<b>52,000</b>
	1992	2,500		"	24.00	60,000
<b>WAX</b>	<b>1993</b>		<b>1,400</b>	<b>LBS</b>	<b>1.00</b>	<b>1,400</b>
	1992		1,200	"	1.00	1,200
	<b>1993</b>		<b>APIARY</b>			<b>\$ 72,900</b>
	<b>1992</b>		<b>TOTAL VALUE</b>			<b>79,200</b>

\*Crops Pollinated: Apple, Broccoli, Carrot, Cauliflower, Cucumber, Fava Bean, Melon, Onion, Parsley, Pepper, Spinach, and Squash



**LETTER FROM THE PRESIDENT OF MONTEREY COUNTY  
CATTLEMEN'S ASSOCIATION**

To be asked to be the first female president of the Monterey County Cattlemen's Association, is an honor. I will do my best for the association.

In looking to the future, my concerns regarding our industry are threefold: the economy, the political climate and society's perception of our industry.

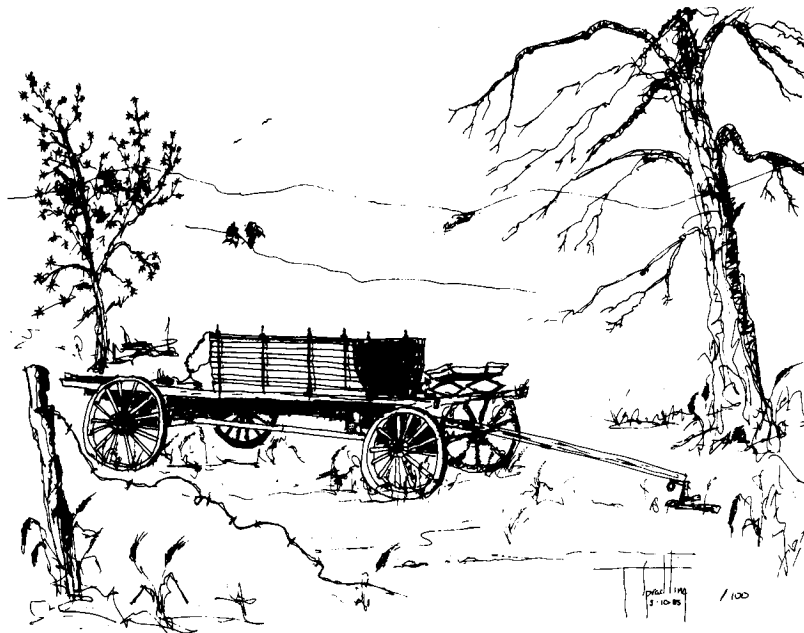
Economically, we must be able to produce our product at a reasonable cost and to sell at a fair price. Cattlemen are making use of all technologies so that they can be competitive in the domestic and foreign markets. We will continue to provide a safe and nutritional product which has many diverse uses.

Politically, I am very concerned about not only the cattlemen's private property rights, but everyone's private property rights as well. Private property rights are being frequently eroded by our supposed to be a government "Of, By And For The People." We must be ever vigilant for any "hidden agendas".

Socially, we are stewards of the land, which includes the animals on it, by which we make our living. I would like to see us recognized as the true environmentalists, who care about the land and the animals on it.

In closing, I would like to say to the Cattlemen of Monterey County, thank you for this high honor.

**MARGARET DUFLOCK**  
Elected March 1994



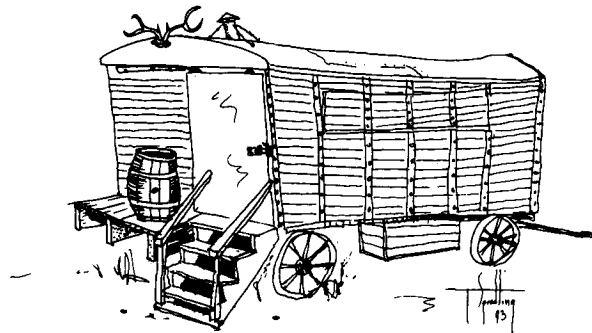
# LIVESTOCK, POULTRY, & DAIRYING

CROP	YEAR	HEAD	PRODUCTION	UNIT	F.O.B. VALUE	
					PER UNIT	TOTAL
<b>BEEF CATTLE</b>	<b>1993</b>	<b>69,000</b>		<b>CWT</b>		<b>\$ 26,833,000</b>
<b>TOTAL</b>	<b>1992</b>	<b>68,000</b>		<b>"</b>		<b>27,000,000</b>
<b>Cattle &amp; Calves</b>	<b>1993</b>	<b>44,500</b>	<b>294,000</b>	<b>"</b>	<b>\$ 73.00</b>	<b>21,462,000</b>
	<b>1992</b>	<b>45,000</b>	<b>297,000</b>	<b>"</b>	<b>75.00</b>	<b>22,275,000</b>
<b>Feeder</b>	<b>1993*</b>					
	<b>1992*</b>					
<b>Stocker</b>	<b>1993</b>	<b>24,500</b>	<b>61,740</b>	<b>"</b>	<b>87.00</b>	<b>5,371,000</b>
	<b>1992</b>	<b>23,000</b>	<b>58,000</b>	<b>"</b>	<b>80.00</b>	<b>4,640,000</b>
<b>SHEEP &amp; LAMB</b>	<b>1993</b>	<b>2,000</b>	<b>2,800</b>	<b>"</b>	<b>47.90</b>	<b>134,000</b>
	<b>1992</b>	<b>2,500</b>	<b>3,500</b>	<b>"</b>	<b>43.00</b>	<b>150,500</b>
<b>WOOL</b>	<b>1993</b>		<b>12,000</b>	<b>LBS</b>	<b>0.25</b>	<b>3,000</b>
	<b>1992</b>		<b>15,000</b>	<b>"</b>	<b>0.22</b>	<b>3,300</b>
<b>HOGS</b>	<b>1993</b>	<b>1,000</b>	<b>190,000</b>	<b>"</b>	<b>0.50</b>	<b>95,000</b>
	<b>1992</b>	<b>1,200</b>	<b>228,000</b>	<b>"</b>	<b>0.47</b>	<b>107,160</b>
<b>DAIRY</b>	<b>1993</b>	<b>6,275</b>				<b>14,703,000</b>
<b>TOTAL</b>	<b>1992</b>	<b>6,000</b>				<b>1 3,631,000</b>
<b>Dairying Cows</b>	<b>1993</b>	<b>4,500</b>		<b>HEAD</b>	<b>1,300.00</b>	<b>5,850,000</b>
<b>Breeding Stock</b>	<b>1992</b>	<b>4,200</b>		<b>"</b>	<b>1,200.00</b>	<b>5,040,000</b>
<b>Cull Cows</b>	<b>1993</b>	<b>875</b>		<b>"</b>	<b>820.60</b>	<b>718,000</b>
	<b>1992</b>	<b>950</b>		<b>"</b>	<b>850.00</b>	<b>807,500</b>
<b>Calves</b>	<b>1993</b>	<b>900</b>		<b>"</b>	<b>90.00</b>	<b>81,000</b>
	<b>1992</b>	<b>850</b>		<b>"</b>	<b>90.00</b>	<b>76,500</b>
<b>Fertilizer</b>	<b>1993</b>		<b>17,000</b>	<b>TON</b>	<b>6.00</b>	<b>102,000</b>
	<b>1992</b>		<b>16,000</b>	<b>"</b>	<b>6.00</b>	<b>96,000</b>
<b>Milk, Market</b>	<b>1993</b>		<b>691,784</b>	<b>CWT</b>	<b>11.44</b>	<b>7,914,000</b>
<b>Marketing</b>	<b>1992</b>		<b>655,527</b>	<b>"</b>	<b>11.61</b>	<b>7,611,000</b>
<b>Manufactured</b>	<b>1993</b>		<b>3,479</b>	<b>"</b>	<b>10.90</b>	<b>38,000</b>
	<b>1992*</b>					

*\*Insufficient to Report*

# LIVESTOCK, POULTRY, & DAIRYING - Continued

CROP	YEAR	HEAD	PRODUCTION	UNIT	F.O.B. VALUE	
					PER UNIT	TOTAL
<b>GOATS</b>	1993	350		<b>HEAD</b>	\$ 250.00	\$ 87,500
Breeding Stock	1992	350		"	250.00	87,500
<b>Cull Goats</b>	1993	400		"	40.00	16,000
	1992	450		"	35.00	15,750
<b>Kids</b>	1993	1,350		"	25.00	33,750
	1992	1,300		"	25.00	32,500
<b>CHICKENS</b>	1993	564,500				2,695,000
<b>TOTAL</b>	1992	464,500				2,685,000
<b>Broilers, Fryers, Roasters</b>	1993	526,000	3,550,000	<b>LBS</b>	0.38	1,349,000
	1992	429,000	3,380,000	"	0.40	1,352,000
<b>Meat Hens</b>	1993	38,500	168,500	"	0.55	93,000
	1992	35,500	158,000	"	0.52	82,200
<b>Misc. Poultry*</b>	1993					660,000
	1992					470,000
<b>Eggs</b>	1993		812,000	<b>DOZ</b>	0.73	593,000
	1992		1,041,000	"	0.75	781,000



1993  
1992

**LIVESTOCK, POULTRY & DAIRYING**  
**TOTAL VALUE**

\$ 44,600,250  
43,712,710

\*Includes Duck Eggs, Ducklings, Fryers, Goslings, Pullets, Quail eggs, etc.

# TREND OF MAJOR CROPS IN MONTEREY COUNTY

CROP	YEAR	ACRES	VALUE
<b>ARTICHOKES</b> Fresh & Processing	1993	6,410	\$ 28,303,000
	1983	9,135	26,788,000
	1973	10,480	10,624,000
<b>BROCCOLI</b> Fresh & Processing	1993	58,905	227,061,000
	1983	43,900	112,383,000
	1973	25,440	19,411,000
<b>CAULIFLOWER</b> Fresh & Processing	1993	23,339	104,565,000
	1983	22,780	64,194,000
	1973	9,775	11,255,000
<b>CELERY</b> Fresh & Processing	1993	8,021	62,898,000
	1983	5,590	45,200,000
	1973	5,910	16,305,000
<b>GRAPES</b>	1993	31,998.37	101,973,000
	1983	32,889	35,730,000
	1973	27,442	5,928,000
<b>LETTUCE, Head</b>	1993	72,765	355,812,000
	1983	56,086	254,052,000
	1973	50,690	114,746,000
<b>LETTUCE, Leaf</b>	1993	30,257	132,514,000
	1983	5,850	22,239,000
	1973	1,573	4,019,000
<b>MUSHROOMS</b>	1993		44,734,000
	1983		35,438,000
	1973		840,000
<b>NURSERY CROPS</b>	1993	1,968.70	116,515,000
	1983	858.21	73,137,000
	1973	423	17,255,200
<b>SPINACH</b> Fresh & Processing	1993	5,670	42,635,000
	1983	2,990	7,189,000
	1973	3,705	1,411,000
<b>STRAWBERRIES</b> Fresh & Processing	1993	8,346	213,943,000
	1983	2,945	70,942,000
	1973	1,885	19,119,000

# MILLION DOLLAR CROPS 1993

1. LETTUCE, Head.....	\$ 355,812,000
2. BROCCOLI .....	227,061,000
3. STRAWBERRIES.....	213,943,000
4. LETTUCE, Leaf.....	132,514,000
5. NURSERY, All.....	116,515,000
6. CAULIFLOWER.....	104,565,000
7. GRAPES .....	101,973,000
8. CELERY .....	62,898,000
9. MUSHROOMS .....	44,734,000
10. SPINACH .....	42,635,000
11. ARTICHOKE.....	28,303,000
12. TOMATOES.....	27,932,000
13. CATTLE .....	26,833,000
14. CARROTS .....	24,611,000
15. MISCELLANEOUS VEGETABLES.....	22,054,000
16. PEPPERS, Chili .....	18,508,000
17. RASPBERRIES.....	16,145,000
18. ASPARAGUS .....	15,020,000
19. GARLIC .....	11,941,000
20. ORGANIC .....	10,879,000
21. ONIONS, Green.....	10,234,000
22. ONIONS, Dry.....	8,314,000
23. BRUSSELS SPROUTS.....	8,198,000
24. MILK, MARKET.....	7,914,000
25. SEEDS, All .....	7,379,000
26. PASTURE, Dry Land.....	7,199,000
27. PARSLEY .....	5,981,000
28. DAIRYING COWS.....	5,850,000
29. CABBAGE, All.....	5,730,000
30. NAPA .....	4,856,000
31. POTATOES .....	4,665,000
32. KALE .....	4,403,000
33. BOK CHOY .....	3,950,000
34. RADISH .....	3,263,000
35. RADICCHIO.....	3,246,000
36. PEPPERS, BELL.....	3,200,000
37. CHICKENS .....	2,695,000
38. LEEKS .....	2,691,000
39. CILANTRO .....	2,456,000
40. SQUASH .....	2,307,000
41. ANISE .....	2,253,000
42. HERBS .....	1,753,000
43. SUGAR BEETS .....	1,513,000
44. HAY, Alfalfa.....	1,416,000
45. BARLEY, Grain.....	1,262,000
46. TOMATOES, Cherry.....	1,170,000
47. CITRUS FRUIT .....	1,071,000
48. BEANS, Dry .....	1,006,000

# SUMMARY

<b>FRUITS &amp; NUTS</b>	<b>1993</b>	<b>\$ 335,087,000</b>
	<b>1992</b>	<b>289,413,000</b>
<b>VEGETABLE CROPS</b>	<b>1993</b>	<b>1,325,264,000</b>
	<b>1992</b>	<b>1,241,961,000</b>
<b>FIELD CROPS</b>	<b>1993</b>	<b>13,900,000</b>
	<b>1992</b>	<b>15,159,000</b>
<b>SEED CROPS</b>	<b>1993</b>	<b>7,379,000</b>
	<b>1992</b>	<b>8,416,100</b>
<b>NURSERY CROPS</b>	<b>1993</b>	<b>116,515,000</b>
	<b>1992</b>	<b>147,528,000</b>
<b>APIARY</b>	<b>1993</b>	<b>72,900</b>
	<b>1992</b>	<b>79,200</b>
<b>LIVESTOCK, POULTRY, AND DAIRYING</b>	<b>1993</b>	<b>44,600,250</b>
	<b>1992</b>	<b>43,712,710</b>
<b>ORGANIC</b>	<b>1993</b>	<b>10,879,000</b>
	<b>1992</b>	<b>9,650,000</b>

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	<b>1993</b>	<b>SUMMARY</b>	<b>\$ 1,853,697,150</b>
	<b>1992</b>	<b>TOTAL</b>	<b>1,755,919,010</b>

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# MONTEREY COUNTY EXPORTS TOP 20 PRODUCE SUMMARY 1993

PRODUCE	1991 POUNDS	1992 POUNDS	1993 POUNDS
1. LETTUCE, Head	190,146,000	164,308,000	181,759,000
2. BROCCOLI	86,062,000	122,909,000	127,849,000
3. CELERY	89,496,000	98,590,000	71,913,000
4. LETTUCE, Leaf	26,596,000	35,567,000	54,622,000
5. CAULIFLOWER	32,289,000	28,195,000	31,994,000
6. STRAWBERRIES	28,066,000	33,899,000	26,927,000
7. TOMATOES	11,067,000	25,236,000	22,663,000
8. ONIONS, Dry	4,908,000	7,814,000	18,754,000
9. CARROTS	16,482,000	26,829,000	17,420,000
10. SALAD MIX	0	9,316,000	11,645,000
11. ONIONS, Green	4,346,000	2,575,000	3,563,000
12. ANISE	0	2,568,000	3,312,000
13. ARTICHOKEs	3,591,000	4,490,000	3,220,000
14. ASPARAGUS	2,919,000	3,099,000	2,787,000
15. CABBAGE	1,192,000	2,621,000	2,618,000
16. SPINACH	0	1,161,000	2,547,000
17. PEPPERS, All	1,482,000	1,267,000	2,014,000
18. RADICCHIO	0	1,137,000	1,728,000
19. GARLIC	0	1,320,000	1,360,000
20. RAPPINI	0	1,067,000	1,332,000
<b>TOTAL FOR ALL PRODUCE EXPORT</b>			<b>592,397,000</b>
<b>ALL SEED</b>	<b>9,332,000</b>	<b>7,958,000</b>	<b>4,729,000</b>
<b>NURSERY STOCK</b>			
<b>CUT FLOWER (Number of Stems)</b>	<b>4,683,000</b>	<b>2,804,000</b>	<b>2,231,000</b>
<b>OTHER NURSERY PLANTS (Ornamental &amp; Transplants)</b>	<b>8,652,000</b>	<b>30,213,000</b>	<b>20,781,000</b>

NOTE: "0" indicates that commodity did not meet production amount for top 20 summary

## SUMMARY OF PRODUCE EXPORTS BY COUNTRY 1993

	POUNDS
1. CANADA	309,471,000
2. JAPAN	115,574,000
3. HONG KONG	59,230,000
4. MEXICO	36,988,000
5. TAIWAN	27,182,000
6. UNITED KINGDOM	6,902,000
7. SINGAPORE	6,409,000
8. PUERTO RICO	2,556,000
9. FIJI ISLANDS	2,370,000
10. UNITED ARAB EMIRATES	1,364,000
11. SWEDEN	1,299,000
12. SAUDI ARABIA	1,184,000
13. GUAM	827,000
14. ITALY	760,000
15. NORWAY	723,000
16. FINLAND	694,000
17. FEDERAL REPUBLIC OF GERMANY	497,000
18. INDONESIA	419,000
19. BAHRAIN	295,000
20. FRENCH POLYNESIA	293,000



# SUMMARY OF SUSTAINABLE AGRICULTURAL ACTIVITIES

PEST	AGENT/MECHANISM	SCOPE OF PROGRAM *
<b>COUNTY BIOLOGICAL CONTROL</b>		
Yellow Starthistle, <i>Centaurea solstitialis</i>	Seedhead Weevil & Fly ..... <i>Bangasternus orientalis</i> <i>Urophora sirunaseva</i>	3 sites
Italian thistle, <i>Carduus</i> spp.	Seedhead Weevil ..... <i>Rhinocyllus conicus</i>	3 sites
Russian thistle, <i>Salsola australis</i>	Leaf & stem mining moths ..... <i>Coleophora</i> spp.	7 sites
Puncture vine, <i>Tribulus terrestris</i>	Stem & Seed weevils ..... <i>Microlarinus</i> spp.	General distribution, local redistribution
Aphid species	Seven-spotted lady beetle ..... <i>Coccinella septempunctata</i>	1 site
Lettuce root aphid, <i>Pemphigus bursarius</i>	Alternate host destruction.....	1134 poplar trees removed
Ash whitefly, <i>Siphoninus phyllyreae</i>	Parasitic wasp..... <i>Encarsia partenopea</i>	General distribution
<b>PEST ERADICATION</b>		
Taurian thistle, <i>Onopordum tauricum</i>	Mechanical/chemical.....	24 plants removed
Scotch thistle, <i>Onopordum acanthium</i>	Mechanical/chemical.....	117 plants removed
Dalmatian toadflax, <i>Linaria genistifolia</i> ssp. <i>dalmatica</i>	Mechanical/chemical.....	1 plant treated
Diffuse knapweed, <i>Centaurea diffusa</i>	Mechanical.....	1 plant removed
Skeletonweed, <i>Chrondrilla juncea</i>	Mechanical/chemical.....	13 plants treated
<b>PEST EXCLUSION</b>		
White rust, <i>Puccinia horiana</i>	Residential ornamental..... Chrysanthemums	3 properties/100 + plants destroyed
Poplar rust, <i>Melampsora larici-populina</i>	Poplar trees.....	Survey
Black rot, <i>Xanthomonas campestris</i> p. v. <i>campestris</i>	Cabbage seed production field.....	Seed field inspection
Q rated nematode, <i>Pratylenchus</i> sp.	Peanuts/Bus Shipment.....	1 rejected/destroyed
Pecan weevil, <i>Curculio caryae</i>	Pecans.....	1 rejected/destroyed
Gypsy Moth, <i>Lymantria dispar</i>	Household goods.....	650 shipments inspected

(\*) Represents total number of individual sites, plants, etc. incorporated in program effort (surveys, collection, releases, etc.)

**PEST MANAGEMENT**

Roadside weeds (virus host)	Chemical .....	100 miles, County right-of-ways
Lettuce Mosaic Virus	Host-free period .....	Countywide
Lettuce Mosaic Virus	Seed... ..	Indexing of all County-planted seed
Western Celery Mosaic Virus	Host-free period .....	Countywide

**PEST DETECTION**

Pest detection is the systematic search for pests outside of a known infested area, or for pests not known to occur in California. The general goal is to detect the insects before they become established over an area so large that eradication is no longer biologically or economically feasible. Detection trapping is performed primarily by the County Agricultural Commissioners' offices.

<b>TARGET PEST</b>	<b>INSECT HOSTS</b>	<b>NO. OF SITES</b>
Medfly	Fruit Trees .....	242
Melon Fruit Fly	Vegetable Gardens .....	65
Mexican Fruit Fly	Fruit Trees .....	99
Oriental Fruit Fly	Fruit Trees .....	65

<b>TARGET PEST</b>	<b>INSECT HOSTS</b>	<b>NO. OF SITES</b>
Gypsy Moth	Shade Trees.....	291
Japanese Beetle	Turf, Roses .....	124
Africanized Honey Bee	High Risk Area.....	4
European Corn Borer	Corn... ..	4
Nantucket Pine Tip Moth	Monterey Pine.....	9
Trogoderma Beetle	High hazard commodities .....	36

Pest exclusion terminal inspections and pest detection trapping activities accounted for 1,839 hours and 2,414 hours respectively. 555,509 incoming units were inspected, with 61 rejections being written. A total of 10,941 trap servicings were made.

**ORGANIC PRODUCTION IN MONTEREY COUNTY**

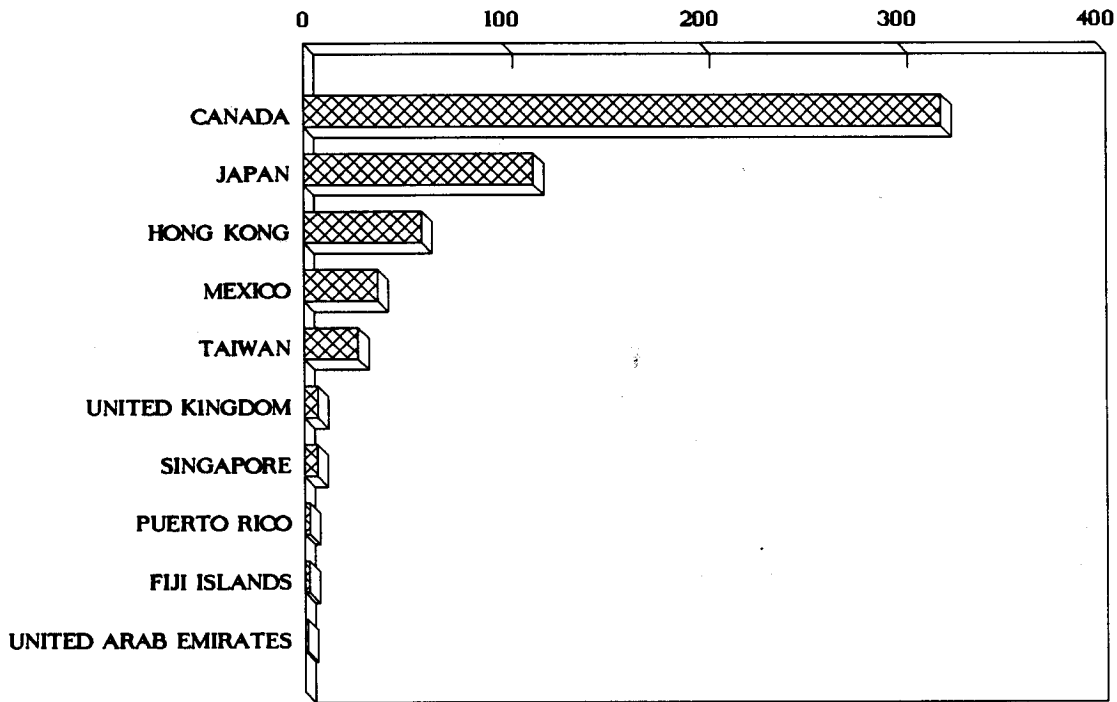
The Organic Foods Act of 1990 now requires organic producers to register in their principal county of operation. The purpose of the legislation and registration is to provide protection for producers, handlers, processors, retailers, and consumers of organic foods marketed in California.

The range of organic products produced in Monterey County is very diverse. These commodities are represented: Apples, Beans, Bok Choy, Broccoli, Cabbage, Carrots, Cauliflower, Celery, Chard, Collards, Corn, Cucumbers, Figs, Garlic, Herbs, Iceberg Lettuce, Kale, Kiwi Fruit, Leaf Lettuce, Leeks, Lemons, Melons, Mixed Salad Greens, Mushrooms, Onions, Oranges, Pears, Peas, Peppers, Parsley, Plums, Potatoes, Radicchio, Radishes, Raspberries, Rhubarb, Salad Greens, Spinach, Squash, Strawberries, Tomatoes, and Walnuts.

There are 27 registered producers in Monterey County who declare a total acreage of 1,000 acres and a total gross value of \$10,879,000.

# TOP 10 IMPORTING COUNTRIES FOR 1993

MILLIONS OF POUNDS OF PRODUCE

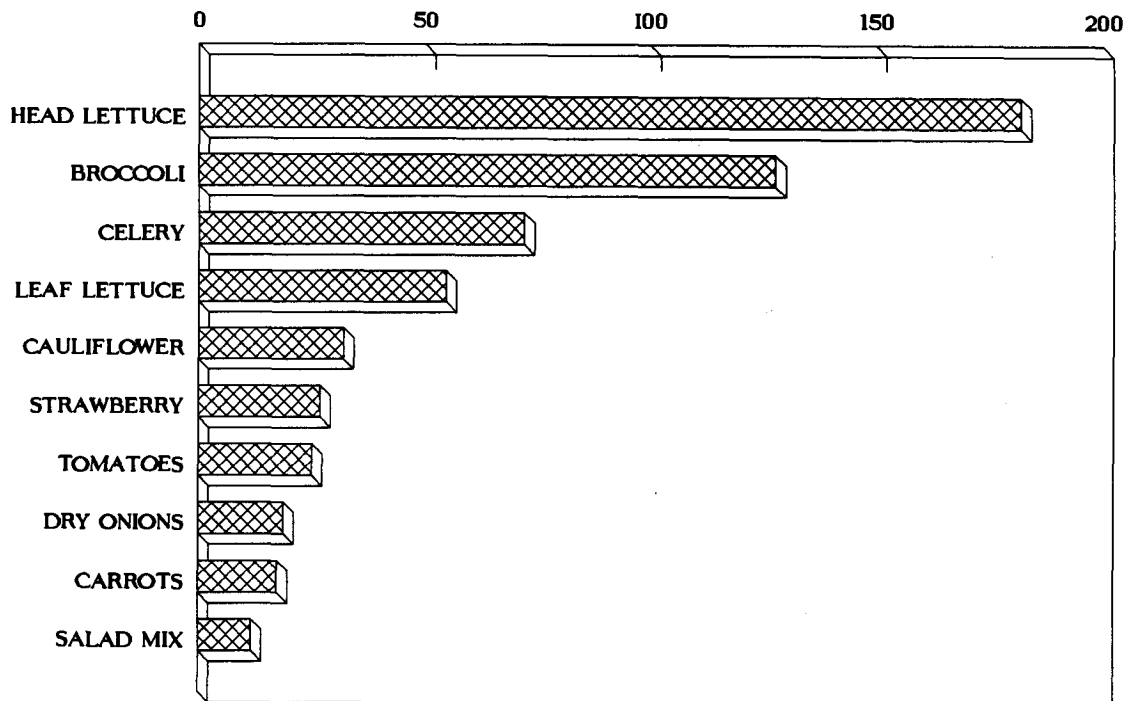


## CAN YOU PICK OUT SOME OF THE 125 COMMODITIES GROWN IN MONTEREY COUNTY ??????

ALFALFAALSTROEMERIAANISEAPPLESARTICHOKESARUGULAASPARAGUSAVOCADOS  
 BARLEYBEANSBEESWAXBEGONIASBELLPEPPERSBOKCHOYBROCCOLIBRUSSELSPRO  
 UTSBUSHBERRIESBUTTERLETTUCECABBAGECACTUSPEARSCALLASCARDONECARNA  
 TIONSCAROTSCASPIACAULIFLOWERCELERYCHERVILCHICONCHILPEPPERSCHIVES  
 CILANTROCORN CUCUMBERSDAFFODILSDAIKONDILLEDIBLEFLOWERSENDIVEESCA  
 ROLEEU CALYPTUSFAVABEANFRENCHSORRELFRISEEGARDENIAGENSINGGOURDSGR  
 APEFRUITGRAPESGREENLEAFGREENONIONSGREENBEANSGYPSOPHILAHONEYICEBE  
 RLETTUCEIRISITALIANPARSLEYJALAPENOPEPPERSJERUSALEMARTICHOKEKALEKI  
 WIFRUITKOHLRABIKUMQUATLAVENDERLEAFLETTUCELEEKSLMONSLEPTOSPERMU  
 MLILIESLIMABEANSMELONSMINIATUREROSESMIZUNAMUSHROOMSNAPAOATSONIO  
 NSORANGESORCHIDOREGANOPAKCHOYPARSLEYPARSNIPSPERSIMMONPIMENTOSPO  
 INSETTIAPOTATOESEPROPAGATIVESTOCKPUMKINSPURPLEBASILRADICCHIORADISHR  
 APINIRASPBERRIESREDLETTUCERHUBARBROMAINEROSEMARYROSESAFFLOWERSA  
 GESALADBURNETSEAFORMSNAPDRAGONSNOWPEASSPINACHSQUASHSTATICESTEPH  
 ANOTISSTOCKSTRAWBERRIESSUGARBEEETSSUGARPEASSWEETPEPPERSTATSOITHYM  
 ETILLANDSIASTOMATILLOTOMATOESTURNIPSWALNUTSWATERCRESSWATERMELO  
 NSWHEATZUCCINI

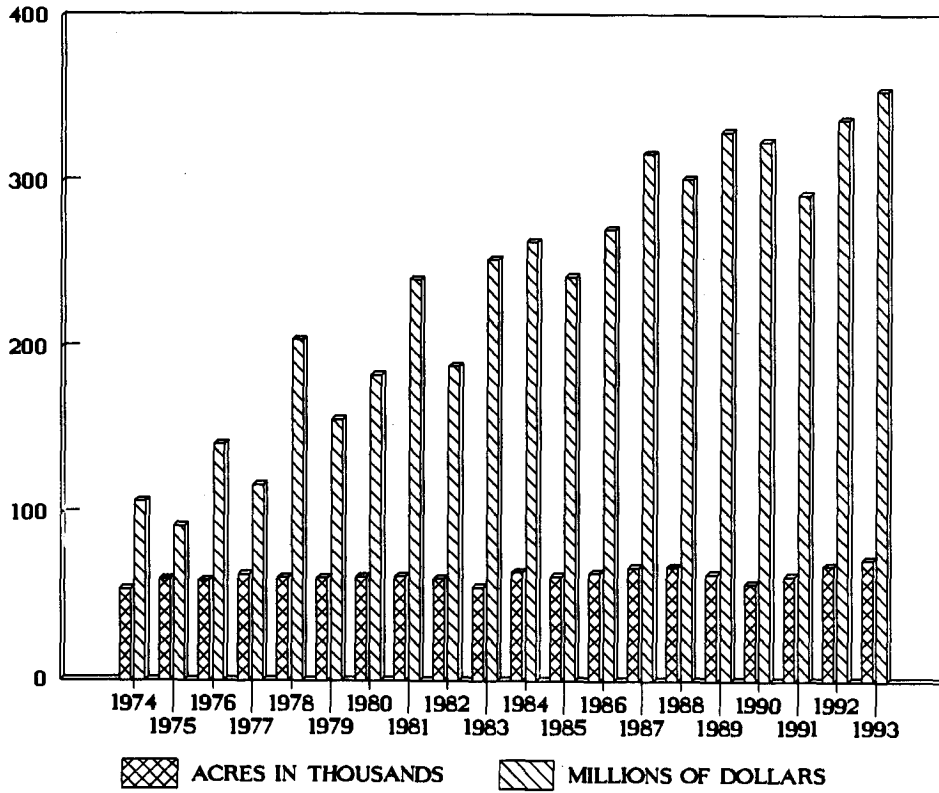
## TOP 10 PRODUCE EXPORTS FOR 1993

MILLIONS OF POUNDS PRODUCE



# HEAD LETTUCE ACREAGE/VALUE

20 YEAR SUMMARY



# MONTEREY COUNTY AGRICULTURE 1993

TOTAL VALUE \$1,853,697,150

