2008 County of Ventura Agricultural Commissioner's Annual Crop and Livestock Report



Office of the AGRICULTURAL COMMISSIONER

AGRICULTURAL COMMISSIONER

Henry S. Gonzales

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Front cover photo: Bob Brown, insect production manager for Associates Insectary, releasing *Cryptolaemus spp.* for biological control of citrus mealybug in the late 1940's.



Office of

AGRICULTURAL COMMISSIONER

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July 21, 2009

Agricultural Commissioner Henry S. Gonzales

> Chief Deputy Susan L. Johnson

TO: The Honorable Board of Supervisors of Ventura County

Steve Bennett, 1st District, Chair
Linda Parks, 2nd District
Kathy Long, 3rd District
Peter C. Foy, 4th District
John C. Zaragoza, 5th District
and
A.G. Kawamura, Secretary
California Department of Food & Agriculture

Pursuant to Section 2279 of the California Food and Agricultural Code, I hereby submit the Ventura County Annual Crop and Livestock Report. The estimated gross value for Ventura County agriculture for calendar year 2008 is \$1,613,247,000. This is an overall increase of 4% from 2007.

Strawberries are, once again, the leading commodity, with a value of \$393,507,000. This is an increase of 7% over 2007. Nursery stock remained the second leading crop, with a value of \$298,690,000; an increase of 2% from 2007. Lemons, again in third, increased 7% to \$250,713,000. Raspberries moved from sixth to fifth place, increasing 22% to \$84,594,000. Avocados retained their seventh place ranking, with a 20% increase to \$63,376,000. Celery retained its fourth place ranking, but with a 5% decrease to \$160,650,000, and tomatoes are down from fifth to sixth place, dropping 10% to \$77,505,000. Other crops experienced similar increases and decreases, respectively.

Overall, 2008 was another remarkable year for agriculture in Ventura County, especially considering the downturn in most other industries. It should be noted that this report reflects gross values only and does not represent the net return to farmers. For some farmers, 2008 was not a "good" year, with prices for petroleum products such as fertilizer and fuel reaching record highs. Nonetheless, agriculture continues to be a mainstay for Ventura County's economy and should remain so for the foreseeable future.

Ventura County's long history of innovative use of biological control agents on pests is featured in this year's Crop Report to show local farming's commitment to sustainable practices in the past, present, and undoubtedly in the future. The following persons generously shared historical information on Ventura County insectaries: Monte Carpenter, Fillmore Insectary (closed); Brett Chandler & Michelle Haase, Associates Insectary; Ron Whitehouse, Rincon-Vitova; and Dan Cahn, Syngenta Bioline.

Special thanks go to Kerry Dufrain for compiling the data in this report and to the industry members that provided her with their individual information.

Respectfully submitted,

Agricultural Commissioner County of Ventura

Ventura County agriculture today continues its long time commitment to integrated pest management (IPM) in citrus, avocado, and berry production. The use of beneficial insects and mites for biological control of injurious pests helps contribute to keeping all three fruit crops in the county's top ten. This important component of IPM in the county relies on the active support of three local insectaries: Associates Insectary, Rincon-Vitova, and Syngenta Bioline.

Biological pest control took root in Ventura County over eighty years ago. The local Mediterranean climate made it possible, but it was the hard work and vision of pioneers in rearing and releasing beneficial predators and parasites like Howard Lorbeer, Howard Sheldon, W.C. Beckley, and Everett Dietrick that helped bring it to maturity. In 1922 growers in Fillmore and Piru formed a cooperative pest control district called the Fillmore Citrus Protective District (FCPD). Howard Lorbeer, was to lead the FCPD as manager from 1926 until 1974. FCPD became a successful bio-control district using the Fillmore Insectary built in 1926. Overtime, it was used to raise 20 different species of beneficial insect and mites for use on over 9000 acres. Important citrus pests and the beneficials used to reduce their numbers included: Citorphilus mealy bug and the lady bird beetle *Cryptolaemus montrouzieri*; black scale and the parasite *Metaphycus helvolus* in the late 30's; and red scale and the parasite *Aphytis melinus*, introduced in Fillmore and Piru orchards in 1960. Avocados had been relatively pest free until the Persea mite arrived in the 90's. The insectary began raising the predatory mite *Gaendromus helveolus* as part of a new IPM program in avocados. Monte Carpenter worked at the insectary forty-two years, thirteen as its manager. He would see the Fillmore Insectary close in October 2005 after seventy-nine years of operation. Its legacy of pest management by natural enemies with timed releases of key beneficials, supported by ant control, still continues in the county.

In 1928 a group of growers in Santa Paula formed a cooperative to rear *Cryptolaemus* called, Associates Insectary (AI). U.C. Berkley trained W.C. Beckley shepherded AI from 1933 until 1969. In 1937 AI expanded services, adding a spray division. By 1957 AI responsible for the IPM on over 9000 acres with the Mupu, Santa Paula Citrus Fruit, Ventura Citrus, and Saticoy Lemon Associations and Rancho Sespe. In 1965 Limoneira Company & Affiliates joined AI to participate in the red scale program. Today in addition to *Cryptolaemus* beetles, AI rears *Aphytis melinus* and Decollate snails. Almost 3,000 acres of avocado groves have now joined AI. More than 500 million beneficials were reared and liberated in member groves last year. **In February 2009 Associates Insectary conducted its 81**st annual meeting. It is now led by President/General Manager, Brett Chandler and is the county's longest operating insectary.

The oldest commercial, free-enterprise insectary called the Rincon Insectary (RI) was started in 1951 by entomologist entrepreneurs, Ernest "Stubby" Green, Douglas Green, and Everett Dietrick. The production facility was located in Faria Beach and was used to rear *C. montrouzier*, known as the mealy bug destroyer. In 1958 RI began to rear *Trichogramma spp*, important egg parasites of cotton boll worm. The insectary incorporated in 1959 and continued to diversify its operations. It produced the red scale parasite *Aphytis spp*. for the FCPD until the district started its own program. Everett Dietrick became president of RI in 1961. He was a biological control researcher affiliated with the University of California and a great proponent of applied insect ecology. Growers contracted with RI entomologists to monitor orchards for pests and beneficial insects to make pest control recommendations. In 1972 Rincon Insectary merged with Vitova of Fontana to become Rincon-Vitova Insectaries. **Rincon Vitova will celebrate its 50th anniversary in July 2009** with Jan Dietrick, as the general manager.

Ventura County's newest insectary is Syngenta Bioline. It is a wholly owned subsidiary of Syngenta AG, Basle, Switzerland. The company produces beneficial insects and mites for use in "Integrated Crop Management programmes" in Europe, Japan, and the United States. **The Syngenta Bioline insectary in Oxnard is the company's sole production site in the United States** and is under the direction of Dan Cahn, President. The insectary specializes in rearing the predatory mite, *Phytoseiulus persimilis*, used on important Ventura County crops: strawberry, raspberry, and greenhouse ornamentals.

AGRICULTURAL CROP REPORT

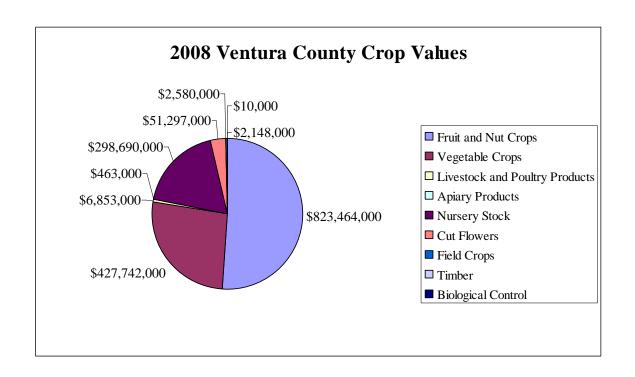
$\begin{array}{c} Recapitulation\ and\ Index\\ 2007-2008 \end{array}$

CROP GROUPING	YEAR	\$ VALUE
1. FRUIT AND NUT CROPS	2008	\$823,464,000
Page #4	2007	\$752,138,000
2. VEGETABLE CROPS	2008	427,742,000
Page #5-6	2007	442,220,000
3. NURSERY STOCK ²	2008	298,690,000
Page #7	2007	292,989,000
4. CUT FLOWERS	2008	51,297,000
Page #8	2007	48,646,000
5. FIELD CROPS	2008	2,580,000
Page #8	2007	1,624,000
6. LIVESTOCK AND POULTRY	2008	6,853,000
Page #9	2007	9,006,000
7. APIARY PRODUCTS	2008	463,000
Page #9	2007	640,000
8. TIMBER	2008	10,000
Page #9	2007	17,000
9. SUSTAINABLE AGRICULTURE	2008	2,148,000
Page #10	2007	2,718,000
GRAND TOTAL	2008	\$1,613,247,000
	2007	1,549,998,000

¹ Figures are rounded off to nearest \$1000 ² Includes Cut Christmas Trees

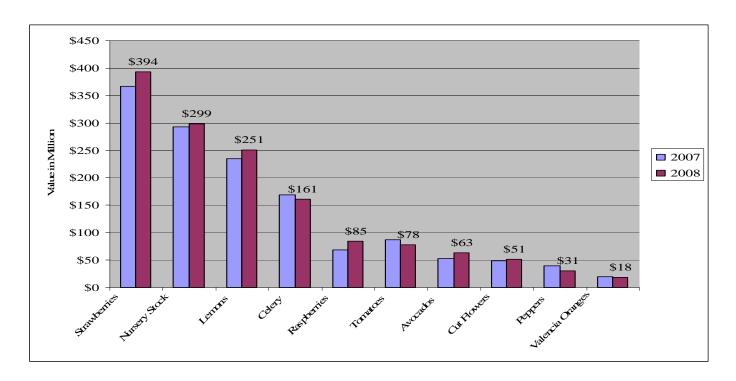
Five Year Comparison Of Ventura County Crop Values

	2004	2005	2006	2007	2008	
Fruit and Nut Crops	740,039,000	652,777,000	755,700,000	752,138,000	823,464,000	
Vegetable Crops	354,514,000	330,269,000	426,659,000	442,220,000	427,742,000	
Livestock and Poultry Products	1,942,000	2,150,000	4,775,000	9,006,000	6,853,000	
Apiary Products	362,000	509,000	431, 000	640,000	463,000	
Nursery Stock	222,514,000	213,661,000	263,890,000	292,989,000	298,690,000	
Cut Flowers	65,663,000	51,751,000	52,456,000	48,646,000	51,297,000	
Field Crops	2,270,000	1,193,000	1,677,000	1,624,000	2,580,000	
Timber	71,000	62,000	16,000	17,000	10,000	
Biological Control	2,337,000	1,999,000	2,570,000	2,718,000	2,148,000	
GRAND TOTAL	\$1,389,452,000	\$1,225,109,000	\$1,508,174,000	\$1,549,988,000	\$1,613,247,000	



TEN LEADING CROPS FOR 2008

RANK	CROP	VALUE
1 st	Strawberries	\$393,507,000
2^{nd}	Nursery Stock	298,690,000
3^{rd}	Lemons	250,713,000
4 th	Celery	160,650,000
5 th	Raspberries	84,594,000
$\boldsymbol{6}^{ ext{th}}$	Tomatoes	77,505,000
7^{th}	Avocados	63,376,000
$8^{ m th}$	Cut Flowers	51,297,000
9 th	Peppers	30,773,000
10^{th}	Valencia Oranges	18,227,000



OTHER MILLION DOLLAR CROPS

Greens	18,191,000	Beans (all)	4,584,000
Cabbage	16,627,000	Oriental Vegetables	4,380,000
Cilantro	12,599,000	Kale	4,199,000
Veg. Transplants*	10,385,000	Orchids*	4,024,000
Spinach	9,504,000	Beet	3,978,000
Lettuce	8,893,000	Carrots	3,053,000
Livestock	6,853,000	Cucumber	3,042,000
Broccoli	6,643,000	Onions (all)	1,926,000
Radishes	5,962,000	Naval Oranges	1,830,000
Parsley	5,013,000	Poinsettia*	1,646,000

^{*} Included in Nursery Stock total above

On the web: www.ventura.org Ventura County Page 3

FRUIT AND NUT CROPS ACREAGE, PRODUCTION AND VALUES 2007-08

	<u>PRODUCTION</u>						<u>ALUE</u>
CROP	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
AVOCADOS							
	2008 2007	17,608 16,050	1.69 1.63	29,701 26,160	Tons "	\$2,133.80 2,022.59	\$63,376,000 52,911,000
GRAPEFRUIT							
	2008 2007	106 83	8.49 8.25	900 685	"	273.33 672.99	246,000 461,000
LEMONS							
ELMONS	2008 2007	18,541 18,892	16.82 16.67	311,874 320,592	"	803.89 733.41	250,713,000 235,124,000
ORANGES (Nave	.1)						
OKANOES (Nave	2008 2007	450 394	11.00 9.52	4,949 3,752	"	369.77 485.61	1,830,000 1,822,000
ORANGES (Vale	ncia)						
ORANGES (Vale	2008	4,464	15.44	68,946	"	264.37	18,227,000
	2007	4,273	9.25	39,522	"	490.69	19,393,000
RASPBERRIES							
	2008 2007	2,370 1,592	6.42 7.50	15,212 11,940	"	5,561.00 5,801.34	84,594,000 69,268,000
STRAWBERRIES	S						
Total	2008 2007	11,721 12,048	25.01 24.17	293,087 291,227	"	1,342.63 1,258.22	393,507,000 366,428,000
Fresh	2008			214,963	"	1,582.98	340,282,000
110011	2007			183,559	"	1,604.02	294,432,000
Processed	2008 2007			78,124 107,668	"	681.29 668.69	53,225,000 71,996,000
TANGERINES &							
TANGELOS	2008	461	3.76	1,732	"	1,429.56	2,476,000
	2007	349	3.88	1,355	"	1,608.12	2,179,000
MISC. FRUITS							
AND NUTS ³	2008	936			"		8,495,000
	2007	733			"		4,552,000
TOTAL	2008 2007	56,657 54,414					\$823,464,000 752,138,000

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³ MISC. FRUITS AND NUTS include Apples, Apricots, Asian Pears, Bushberries, Cherimoya, Grapes, Guavas, Kiwi, Limes, Olives, Persimmons, Macadamias, Walnuts; and miscellaneous citrus, deciduous, and subtropical fruit

VEGETABLE CROPS ACREAGE, PRODUCTION AND VALUES 2007-08

		PRODUCT	<u>ION</u>			<u>\$</u>	VALUE	
CROP	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL	
BEANS								
Green and								
Dry Limas,	2008	1,756	2.94	5,167	Tons	887.17	\$4,584,000	
Green Snap	2007	1,458	2.52	3,673	44	787.91	2,894,000	
BEETS	2008	390	11.53	4,495	"	884.94	3,978,000	
	2007	385	11.66	4,490	"	695.99	3,125,000	
BROCCOLI								
Fresh and	2008	1,504	7.33	11,031	"	602.21	6,643,000	
Processed	2007	1,059	8.91	9,431	••	594.85	5,610,000	
CABBAGE	2008	2,857	26.94	76,970	"	216.02	16,627,000	
	2007	2,420	18.83	45,577	44	232.62	10,602,000	
CARROTS	2008	408	17.86	7,288	44	418.91	3,053,000	
CARROIS	2008	963	25.19	24,260	"	207.87	5,043,000	
	2007	703	23.17	24,200		207.07	3,043,000	
CELERY	2008	11,918	34.96	416,661	"	385.57	160,650,000	
CELEKT	2007	11,585	36.34	421,026	"	402.62	169,512,000	
CILANTRO	2008	3,702	8.58	31,753	"	396.78	12,599,000	
	2007	3,037	8.56	25,988	"	516.39	13,420,000	
CUCUMBERS ⁴	2008	79	23.85	1,884	44	1,614.65	3,042,000	
	2007	60	29.43	1,766	"	1,680.07	2,967,000	
GREENS ⁵	2008	1,073	7.05	7,560	"	2,406.22	18,191,000	
	2007	1,459	6.76	9,867	"	1,670.01	16,478,000	
***	2000	202	10.05	4.070	44	0.57.04	4.400.000	
KALE	2008	393	12.35	4,853	"	865.24	4,199,000	
	2007	270	12.51	3,378		911.19	3,078,000	
LETTUCE	2008	1,573	11.25	17,693	"	506.53	8,962,000	
Total	2007	1,782	11.45	20,412	"	473.25	9,660,000	
Head	2008	123	7.99	983	44	661.24	650,000	
	2007	198	17.63	3,490	"	226.07	789,000	
Romaine	2008	649	13.90	9,024	44	356.38	3,216,000	
	2007	861	12.42	10,697	44	402.54	4,306,000	
T 6	2000	004	0.60	5 202	41	662.02	F 00 < 000	
Leaf	2008	801	9.60	7,686	"	663.02	5,096,000	
	2007	723	8.61	6,225	••	733.33	4,565,000	

 ⁴ Includes hydroponics
 ⁵ Includes: chard, collard, mustard, turnip and watercress.

VEGETABLE CROPS ACREAGE, PRODUCTION AND VALUES 2007-08

		PRODUCT	<u>ION</u>			9	S VALUE	
CROP	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL	
ONIONS	2008	339	17.68	5,992	Tons	\$478.81	\$2,869,000	
Green & Dry	2007	395	20.53	8,111	10118	441.25	3,579,000	
ORIENTAL VEG.	2008	616	11.30	6,961	"	629.22	4,380,000	
	2007	544	10.93	5,948	"	616.17	3,665,000	
PARSLEY	2008	657	12.13	7,967	44	629.22	5,013,000	
	2007	501	18.46	9,246	"	744.43	6,883,000	
PEPPERS								
Bell and	2008	2,767	19.48	53,906	"	570.86	30,773,000	
Chili	2007	3,029	23.65	71,630	••	553.90	39,676,000	
PUMPKIN	2008	102	14.47	1,476	"	256.78	379,000	
	2007	131	13.79	1,807	44	178.75	323,000	
RADISHES	2008	1,265	13.53	17,115	44	348.35	5,962,000	
	2007	984	12.68	12,476	"	475.39	5,931,000	
SPINACH	2008	1,239	8.35	10,350	44	918.26	9,504,000	
	2007	1,791	5.81	10,414	66	884.00	9,206,000	
SWEET CORN	2008	197	6.13	1,207	44	367.85	444,000	
	2007	272	6.88	1,872	66	520.03	974,000	
TOMATOES ⁶	2008	1,853	46.21	85,629	44	905.13	77,505,000	
	2007	1,540	54.34	83,685	66	1,033.47	86,486,000	
VEGETABLES,								
MISC. ⁷	2008	1,353			"		48,385,000	
Field, Indoor, and Processed	2007	1,539			"		43,108,000	
TOTAL	2008	36,041					\$427,742,000	
	2007	35,204					442,220,000	

⁶ Includes hydroponics

⁷ Includes: artichokes, arugula, asparagus, baby vegetables, cauliflower, eggplant, endive, garlic, gourds, herbs, kohlrabi, leeks, melons, mushrooms, peas, radicchio, sprouts, squash, tomatillos, and turnips.

NURSERY STOCK PRODUCTION AND VALUES 2007-08

ITEM	YEAR	PRODU	JCTION	PRODUCTIO Greenhouse Square Feet	N AREA Field Acres	Per Unit	TOTAL	
NURSERY STOC								
	2008 2007			6,662,955 7,569,379	4,432 4,914		\$298,690,000 292,989,000	
Fruit and Nut Trees	2008 2007	908,377 711,392	Trees Trees	18,900	209 93	17.16 14.29	15,588,000 10,166,000	
Potted Plants	2008 2007	2,328,660 3,445,402	Pots Pots	2,007,743 2,928,135	24 48	4.14 4.08	9,644,000 14,073,000	
Propagative Mat	2008 2007	46,426,920 51,407,075	Cuttings Cuttings	748,904 724,320	18 15	.12 .14	5,541,000 7,112,000	
Herb. Perennials	2008 2007	9,161,367 7,846,081	Containers Containers	564,710 852,384	145 144	2.19 2.46	20,019,000 19,330,000	
Woody Orn.*	2008 2007	12,829,087 14,294,495	Tree/Shrubs Tree/Shrubs	831,900 737,900	2,614 2,688	14.32 11.85	183,690,000 169,377,000	
Bed. Plants Gr. Cover & Turf	2008 2007	30,244,344 57,772,388	Flats Flats	635,336 571,690	1,414 1,924	1.78 1.14	53,823,000 65,846,000	
Veg. Transplants	2008 2007	3,839,084 3,043,410	Flats Flats	1,855,462 1,754,950	8 2	2.71 2.33	10,385,000 7,085,000	
·								
TOTAL	2008 2007						\$298,690,000 292,989,000	

^{*}Includes cut Christmas Trees

CUT FLOWERS PRODUCTION AND VALUES 2007-08

ITEM	YEAR	ACRES	PRODUCTION UNIT		TOTAL \$ VALUE
FLOWER BLOOMS &	2008	40	12,914,880	Blooms	\$3,063,000
STEMS	2007	30	13,887,547	Blooms	4,130,000
CUT GREENS & DRIED	2008	167	640,361	Bunches	1,745,000
FLOWERS	2007	152	498,546	Bunches	1,463,000
FLOWER BUNCHES	2008	767	14,884,354	Bunches	46,489,000
Total	2007	738	14,099,052	Bunches	43,053,000
Statice, Lace, Aster	2008	126	1,472,219	"	3,614,000
And Gypsophila	2007	104	1,619,489	٠.	3,917,000
Chrysanthemums and	2008	69	2,366,601		3,975,000
Sunflowers	2007	59	2,136,414	٠.	4,013,000
Lilies & Irises	2008	77	3,756,675		21,141,000
	2007	62	3,087,443	"	15,973,000
Lisianthus	2008	24	770,528	"	2,241,000
	2007	27	630,515	٤.	2,133,000
Delphinium, Larkspur,	2008	302	3,288,444	66	7,430,000
Stock & Snapdragons	2007	284	2,776,686	66	5,699,000
Miscellaneous	2008	169	3,229,887	44	8,088,000
	2007	202	3,848,505	"	11,318,000
TOTAL	2008	974			\$51,297,000
	2007	920			48,646,000

FIELD CROPS ACREAGE, PRODUCTION AND VALUE 2007-08

CROP	YEAR	HARVESTED ACREAGE	TOTAL \$ VALUE
ALFALFA AND PASTURE	2008	100,280	\$1,647,000
Irrigated and Non-Irrigated	2007	100,106	1,071,000
GRAIN ⁸ , HAY,	2008	1,376	933,000
& VEGETABLE SEED	2007	1,248	553,000
mom . I	2000		Φ2.500.000
TOTAL	2008		\$2,580,000
	2007		1,624,000

⁸ Includes green barley

LIVESTOCK AND POULTRY PRODUCTION AND VALUES 2007-08

ITEM	YEAR	PRODUCTION	UNIT	\$ VA PER UNIT	ALUE TOTAL	
LIVESTOCK						
Cattle, Hogs	2008	28,461	cwt.	101.61	\$2,892,000	
Sheep	2007	20,339	cwt.	108.41	2,205,000	
POULTRY						
Chickens and	2008				\$3,794,000	
Eggs	2007				6,531,000	
OTHER LIVESTOCK	2008				167,000	
Deer, Duck and	2007				270,000	
Squab					,	
TOTAL	2008				\$6,853,000	
	2007				9,006,000	

APIARY PRODUCTS PRODUCTION AND VALUES 2007-08

	·			\$ VA	LUE	
CROP	YEAR	PRODUCTION	UNIT	PER UNIT	TOTAL	
	•				*****	
HONEY	2008	67,170	lbs	\$1.62	\$109,000	
	2007	210,605	lbs	1.32	279,000	
BEESWAX	2008	6,176	"	3.24	20,000	
AND POLLEN	*2007	2,340	"	2.14	5,000	
POLLINATION USE	2008				334,000	
	2007				356,000	
TOTAL	2008				\$463,000	
	2007				640,000	

^{*} Beeswax only

TIMBER PRODUCTION AND VALUES 2007-08

CROP	YEAR	\$VALUE
TIMBER ⁹	2008 2007	\$10,000 \$17,000

SUSTAINABLE AGRICULTURE

ITEM	PEST	AGENT	SCC SCC	OPE OF PRO	GRAM
BIOLOGICAL CONTROL Commercial Insectaries	Red and black scale, Mealybug, snails, various aphids, mites and flies	Cryptol Decolla various	te snails, 242 ranches. Predators, Valued at \$2,148,000		ased on ranches. alued at
COLONIZATION OF BENEFICIAL ORGANISMS	Yellow Star Thistle	Puccinia jacaea 1 site/1 release 100 mg spores/sq. meter			
PEST ERADICATION	Dalmation Toadflax Scotch Thistle Spotted Knapweed Euphorbia terracina	Mechan Mechan	ical/ Digging ical/ Digging ical/ Digging ical/Digging		1 Site 1 Site 1 Site 1 Site
PEST EXCLUSION	Various Gypsy Moth	Incoming Shipments Postal/UPS/Fed Express (Parcels) Truck/Air Freight Household Goods (Inspections)		S) Total	5,679 3,872 <u>87</u> 9,638
ORGANIC FARMING	Number of registered grower	rs 82	Vegetables & Herbs Fruits and Nuts Field Crops Flowers Total Acreage	Acreage Acreage Acreage Acreage	1,485 2,967 339 15