

STATISTICS OF HAWAII AGRICULTURE 2004

April 2006

A Partnership Between the



Hawaii
Department of Agriculture
Agricultural Development Division

United States
Department of Agriculture
National Agricultural Statistics Service



**EXECUTIVE CHAMBERS
HONOLULU**

LINDA LINGLE
GOVERNOR

MESSAGE FROM GOVERNOR LINDA LINGLE

Aloha!

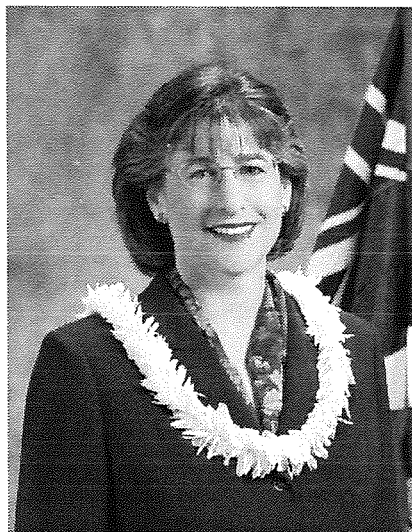
The information in this publication reaffirms agriculture as an important component in the economic and social fabric of Hawaii. Agriculture has long provided jobs for Hawaii's people, dollars for the economy, and green open spaces for the enjoyment of all. The list of Hawaii commodities continues to grow, as do new markets for our farm products, new technology, and new opportunities.

Hawaii's agricultural industry generated farm level revenues of \$544 million. Diversified agriculture contributed a record \$403 million to this total. More than 5,000 farms and ranches operate in Hawaii, providing sustenance to its citizens. The open vistas of our agricultural areas contribute greatly to the attraction people from around the world feel towards our islands.

As you review this publication from the Hawaii Field Office of the National Agricultural Statistics Service, keep in mind that numbers alone cannot begin to convey the importance of farming to our State. The industry helps diversify and strengthen our economy, provide job opportunities for our residents, and contribute to the conservation of working lands.

This publication documents the continued growth and success of Hawaii's agricultural industry and to the efforts of our farmers and ranchers.

Aloha,




LINDA LINGLE



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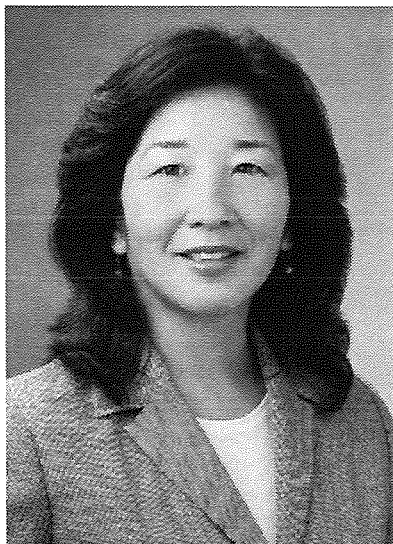
Aloha!

It is with pleasure that the Hawaii Department of Agriculture takes part in presenting the annual publication of the Hawaii Field Office of the National Agricultural Statistics Service. This release is entitled the Statistics of Hawaii Agriculture 2004. Within these pages it quickly becomes apparent that the agriculture industry remains one of the most important and fascinating segments of Hawaii's economy.

Agriculture in Hawaii continues to experience transition, with large sugar and pineapple plantations exploring renewable energy systems, and small family-run agribusinesses producing tropical fruits, flowers, and other diversified crops. Amongst such change, the industry continues to thrive, and in 2004, the value of production from diversified agriculture grew to \$403 million, up over 5 percent from the previous year. Diversified agriculture accounted for 74 percent of all agriculture in 2004, up from its 70 percent share in 2003.

The statistics found in this book allow farmers, economists and consumers to gauge seasonal prices and capitalize on niche markets. These numbers serve as reliable data for projects and initiatives dealing with agriculture, and they highlight important trends in the industry. Tracking agriculture with statistics over time reveals the ever-changing aspect of the industry, and can be used to measure our progress and plan for our future.

This publication is an excellent example of collaboration between federal and state employees working together to gather statistics on Hawaii's agriculture. It is also important to acknowledge Hawaii's farmers for their cooperation in supplying the information documented in this release. The numbers in this publication reflect the strength and vigor of this important sector in Hawaii's economy.



Aloha,

A stylized, handwritten signature of Sandra Lee Kunimoto in black ink.

Sandra Lee Kunimoto
Chairperson, Hawaii Board of Agriculture





USDA, NASS, HAWAII FIELD OFFICE

"Fact Finders for Hawaii Agriculture"



United States Department of Agriculture - National Agricultural Statistics Service
In cooperation with Hawaii Department of Agriculture - Agricultural Development Division

A MESSAGE FROM THE STATE DIRECTOR

The primary information source, for in this publication, is done by surveying farmers and ranchers. We are aware and sensitive to the frequent contacts made to producers throughout Hawaii and we truly appreciate the cooperation farmers and ranchers extend to us. Our office provides many options for producers to reply including mail, facsimile, the Internet (for some surveys), by phone, and personal interviews. The vast majority of producers understand that farmers and ranchers are the very best source, often the only source, for the information required to meet specific data needs and publications. We want to thank all the agricultural producers and organizations who have so willingly and faithfully provided survey information.

Our National Association of State Department of Agriculture (NASDA) enumerators who are also on the "front line" interviewing farmers and ranchers during peak survey periods deserve special recognition for their significant contributions.

The uses of this information are many, but often the data are needed for developing marketing strategies, obtaining farm loans, writing business plans, testifying before local or state governing bodies, justifying claims for disaster relief, and evaluating and developing risk aversion plans. The beneficial value of this data is not always clear to the producer, but reliable numbers are needed for business and policy decisions. Supplemental information is provided by grower organizations and agribusiness firms. Without their vital cooperation and support on the many surveys conducted throughout the year, these reports would not be possible.

This year's cover picture highlights the aquaculture industry. John Corbin, Manager of the Aquaculture Development Program, provided the colorful image of an aquaculture operation. Hawaii grown aquaculture was valued at \$28.1 million in 2004, up \$450,000, or 2 percent, from the previous year. Compared to the 2000 value of \$22.2 million, this industry has grown by 27 percent increase in only four years. These statistical trends show this dynamic industry continues to grow.

Our website, http://www.nass.usda.gov/Statistics_by_State/Hawaii/index.asp, contains all the data published by our office. There you will find this publication and other numerous commodity releases issued throughout the year. A new publication, Agriculture Theft and Crime, is included in this bulletin. This is the first study in the nation to measure the effects of theft and vandalism on farms and ranches.

Thank you,

Mark E. Hudson
Director, USDA NASS Hawaii Field Office





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National Agricultural Statistics Service



The National Association of State Departments of Agriculture (NASDA) is a nonprofit, nonpolitical organization comprised of the 50 State Departments of Agriculture. NASDA and USDA-NASS have a cooperative agreement for NASDA to employ enumerators in the collection of agricultural statistics.

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HAWAII AGRICULTURE 2004

Farm Revenue Drops By 1 Percent

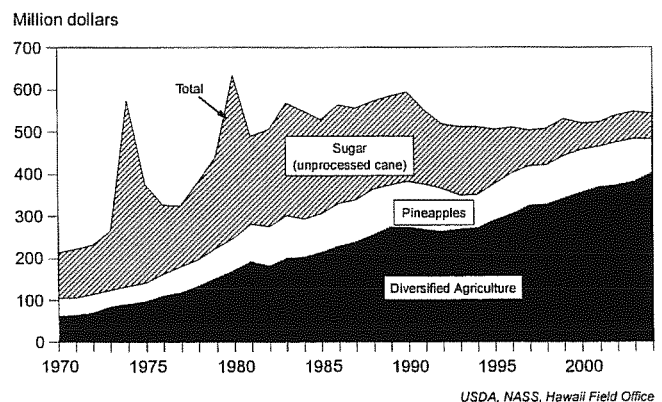
Farm level revenue for 2004 totaled \$544.2 million, 1 percent less than the previous year. Year-over-year gains for diversified agriculture was more than offset by a drop in sugarcane and pineapple.

Highlighting gains for diversified agriculture were record years for vegetables and melons, seed crops, and aquaculture. Among other commodities showing gains from 2003 were macadamia nuts, cattle, hogs, and eggs. Some of the commodities experiencing declines were coffee, papayas, bananas, and milk. The aggregate total for diversified commodities (everything other than sugarcane and pineapple) was \$402.8 million, 5 percent higher than the previous year. Favorable weather and higher prices were responsible for the increase in value of production for several commodities.

The equivalent farm value for pineapple (does not include the value added by processing) decreased to \$79.9 million, 21 percent below the previous year. The drop in production more than offset the increase in price to result in lower farm value.

Farm level values shown in this publication are an important measure of production agriculture, but they do not truly reflect the total contribution of agriculture to the State and county economies. For the better understanding of the overall picture, refer to "Agriculture's Contribution to Hawaii's Economy-An Update" (CTAHR Economic Issue EI-3b, Feb. 2002) a publication prepared jointly by the College of Tropical Agriculture and Human Resources, University of Hawaii at Manoa, and the Hawaii State Department of Agriculture.

Cash Receipts of Agricultural Commodities, State of Hawaii, 1970-2004



Above Normal Rainfall Across the State Brings Some Relief

Variable weather prevailed during most of 2004 across the State, with many weather stations reporting above normal to near normal annual rainfall. Rainfall across most of the State brought some relief to the persistent drought conditions of the previous year.

January-March

A low pressure system brought showers to all of the islands in early January. Rainfall was moderate to heavy. A cold front in mid-January brought more showers and strong gusting winds. Another storm in late January brought continued strong southerly winds, cool temperatures, and moderate to heavy rainfall. Light to moderate trade winds brought windward showers in early February. Leeward areas were mostly sunny and dry. Dry, pleasant weather with a few scattered showers and light trade winds prevailed in mid-February. A late February storm system brought heavy rain and strong winds to the islands. Honolulu and Hawaii Counties received the most adverse conditions with flooding and downed trees. Southwesterly winds in early March brought clouds and rain to the State. Storm systems in mid-March brought trade winds and mountain and windward shower activity. Late March brought brisk trade winds and abundant moisture in the windward and mountain areas. Five of the eight primary weather stations used for our weekly Crop Weather release reported over fifty-percent above average rainfall for the first quarter.

April-June

A storm system brought variable weather to the State in early April. Conditions were mostly dry with some isolated showers. Strong trade winds in mid-April brought light showers to

most of the State with some windward and mountain areas receiving heavier downpours. Variable weather continued across the State at the end of April. Windward and mountain areas received light showers. Variable weather conditions continued in early May. Sunny and warm conditions with light showers occurred in most areas. A mid-May storm system brought weakened trade winds which caused sometimes heavy showers in most areas. Light to moderate trade winds brought generally fair, dry weather to the State in late May. Dry conditions, favorable for crop growth, continued through most of the State into early June. Warm, sunny weather with light windward and mountain showers prevailed in mid-June. Late June brought brisk trade winds with light to moderate showers. Seven of the eight weekly Crop Weather stations were above average rainfall for the year through the end of June.

July-September

Dry, sunny weather prevailed in leeward areas in early July. Light to moderate showers prevailed in the windward and mountain areas. Mid-July weather continued generally favorable for crop and pasture growth. Most of the State was sunny and dry with some clouds and showers in the elevated areas. Dry conditions continued into late July. Light to moderate trade winds brought scattered clouds and light showers to the mountain areas. The remnants of Tropical Depression Darby brought isolated thunder storms and moderate to heavy showers to portions of the State in early August. Dry conditions returned in mid-August with light trade winds and showers confined to windward and mountain areas. Weather patterns remained

unchanged through the end of August. Crop and pasture conditions were rated as fair to good. Warm, sunny weather with light trade winds and isolated showers predominated in early September. Dry conditions continued to prevail in mid-September. Some areas needed heavy irrigation, but were under voluntary water restrictions. Late September saw light to moderate trade winds with warm, sunny conditions with scattered windward and mountain showers. Only one (Kahuku) of the Crop Weather stations was below normal rainfall for the year as of the end of September.

October-December

A high-pressure system in early October brought light trade winds, warm sunny conditions with scattered mountain and windward showers. A storm north of the State interrupted normal trade winds in mid-October. Showers were light and confined to upper elevations. An upper level storm system generated showers in all districts in late October. Some windward and mountain areas had downpours and thunderstorms. Unstable atmospheric conditions in early November brought weak trade winds, high humidity, and moderate showers. Mid-November saw a mix of weather turning from dry to heavy shower activity. Rains were heaviest on windward areas. In late November, a storm system brought strong trade winds and scattered showers which were occasionally heavy. Brisk trade winds brought generally fair weather to the State in early December. Light to moderate rains were confined to windward and mountain areas. Very light trade winds, sunny days, and light showers dominated in mid-December. Late December saw heavy rainfall with some flooding.

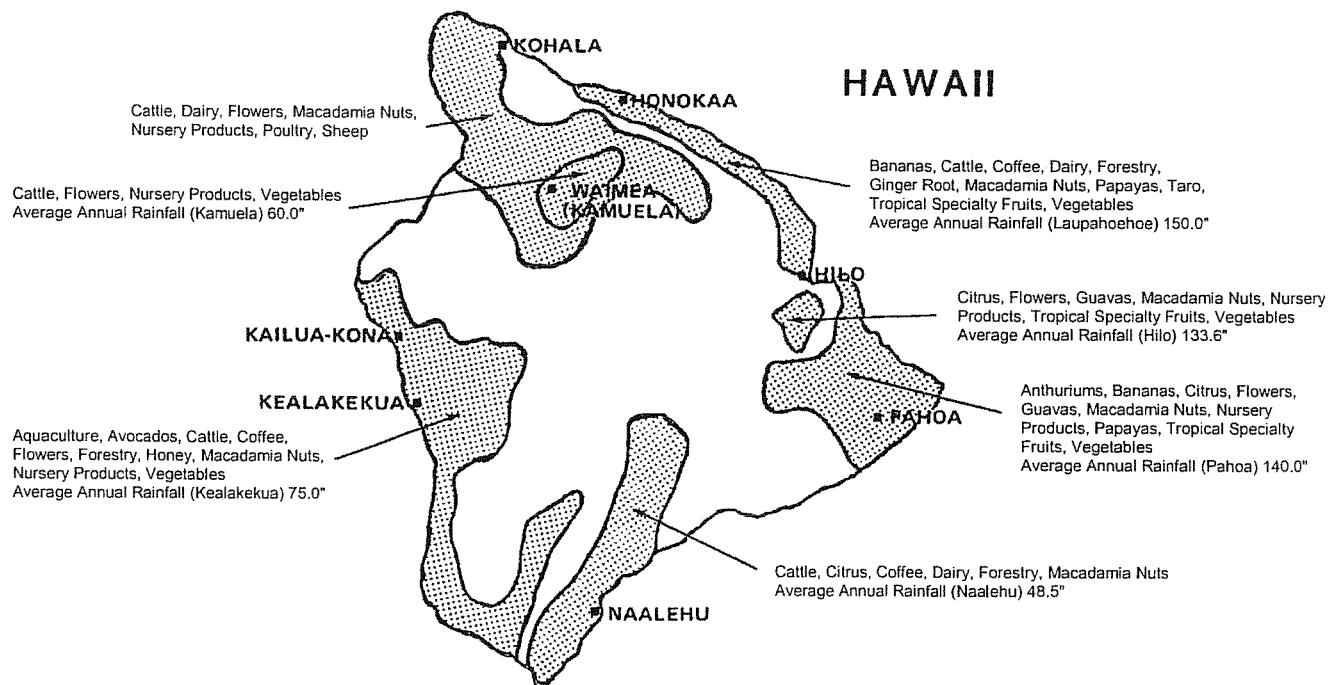
WEATHER: Precipitation, selected stations, State of Hawaii, 2004

STATIONS	Year & normal	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual	% Annual normal
ISLAND OF HAWAII															
Hilo International Airport	Normal	9.1	12.9	13.7	12.9	10.0	6.6	9.5	10.9	7.4	11.0	13.8	15.8	133.6	
	2004	13.14	8.28	27.25	20.51	8.91	6.28	4.44	6.83	5.69	14.13	11.07	11.00	137.53	102.9
Kamuela (HI86)	Normal	6.6	6.0	7.9	6.9	4.0	2.2	3.7	4.1	2.2	3.3	5.8	7.3	60.0	
	2004	6.47	4.74	26.23	12.92	3.90	1.11	.51	2.26	.48	2.13	7.67	2.33	70.75	117.9
Kealahou (HI84)	Normal	4.7	3.4	5.6	6.2	7.7	8.2	8.7	8.3	8.2	6.2	4.4	3.4	75.0	
	2004	4.28	5.97	1.94	15.32	7.30	5.28	11.60	11.51	8.27	6.96	4.16	4.51	87.10	116.1
Laupahoehoe (HI80)	Normal	13.5	13.2	19.5	18.9	11.7	6.2	10.0	12.4	6.9	9.3	13.6	14.8	150.0	
	2004	8.89	8.02	33.33	24.90	8.88	3.22	3.14	4.56	1.61	6.33	12.26	11.03	126.17	84.1
Pahala (HI85)	Normal	7.7	6.1	6.3	5.0	3.8	2.2	2.1	3.3	3.4	4.2	5.5	5.4	55.0	
	2004	12.90	4.12	5.75	7.27	3.75	1.56	.95	1.10	1.18	7.77	3.07	2.72	52.14	94.8
Pahoa (HI83)	Normal	13.9	10.9	14.7	13.9	10.5	7.1	9.8	10.6	9.2	11.5	13.3	14.6	140.0	
	2004	16.47	10.15	27.52	16.76	5.52	6.43	4.33	6.53	3.95	12.28	8.35	10.14	128.43	91.7
ISLAND OF KAUAI															
Anahola (HI48)	Normal	6.8	4.4	6.0	4.6	3.2	1.6	2.5	2.5	2.0	5.1	5.4	5.9	50.0	
	2004	5.78	5.44	6.13	3.40	2.73	2.73	.97	2.18	3.35	7.80	7.09	10.70	58.30	116.6
Hanalei (HI45)	Normal	11.3	10.1	14.0	12.7	8.1	5.3	8.6	6.3	4.7	7.0	12.2	9.7	110.0	
	2004	4.27	5.38	20.09	11.45	5.87	10.92	3.02	6.76	8.12	8.39	11.13	10.76	106.16	96.5
Omao (HI51)	Normal	6.9	4.5	5.5	5.2	4.2	3.4	4.7	4.6	3.7	4.7	5.9	6.7	60.0	
	2004	6.24	8.46	9.39	6.58	4.55	--	--	7.36	8.14	13.24	5.25	8.91	78.12	130.2
ISLAND OF MAUI															
Hana (HI61)	Normal	9.5	6.8	9.5	9.0	6.2	3.8	5.6	5.6	5.4	7.0	8.7	6.1	83.2	
	2004	20.99	--	--	8.66	--	--	--	--	--	10.27	8.11	9.61	57.64	69.3
Kula (HI65)	Normal	4.9	3.7	2.8	2.8	2.1	1.1	1.4	1.9	2.0	1.4	2.5	3.4	30.0	
	2004	7.26	4.53	7.07	1.36	4.06	.78	0	--	--	.44	3.67	1.83	31.00	103.3
Wailuku (HI66)	Normal	5.2	3.8	3.6	3.0	1.2	.4	.6	.7	.6	1.7	2.9	4.3	28.0	
	2004	12.11	6.06	10.05	4.03	2.93	.09	.15	.80	.40	--	--	--	36.62	130.8
ISLAND OF OAHU															
Kahuku (HI09)	Normal	6.3	4.2	5.3	4.0	2.5	1.8	2.2	2.6	2.2	4.0	4.6	5.3	45.0	
	2004	7.09	6.16	3.77	1.84	7.52	1.77	.75	3.57	2.42	5.42	5.21	6.99	52.51	116.7
Waianae (HI17)	Normal	3.8	2.3	2.5	1.6	.7	.3	.3	.7	.7	1.8	2.0	3.3	20.0	
	2004	8.14	7.49	2.80	.44	2.68	.44	.07	1.75	1.50	.79	7.89	3.98	37.97	189.9
Waimanalo (HI13)	Normal	8.1	4.9	5.6	4.9	3.1	1.5	1.7	2.0	1.8	4.3	4.9	7.2	50.0	
	2004	15.98	12.64	7.56	2.54	4.22	1.06	1.33	6.12	1.60	.90	6.91	5.09	65.95	131.9

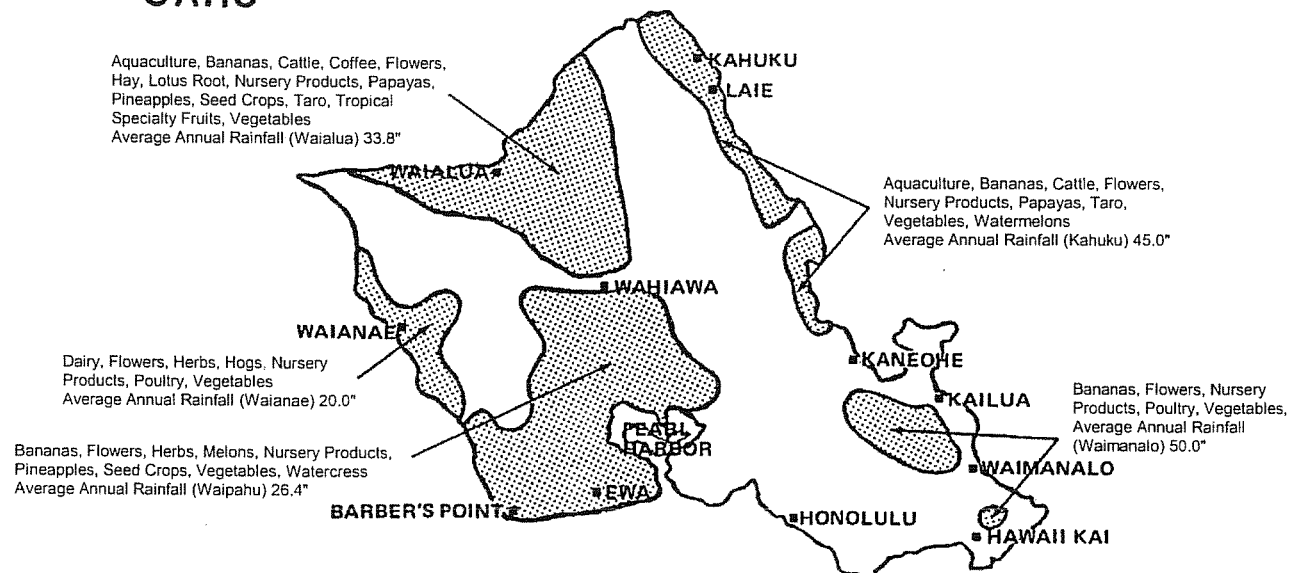
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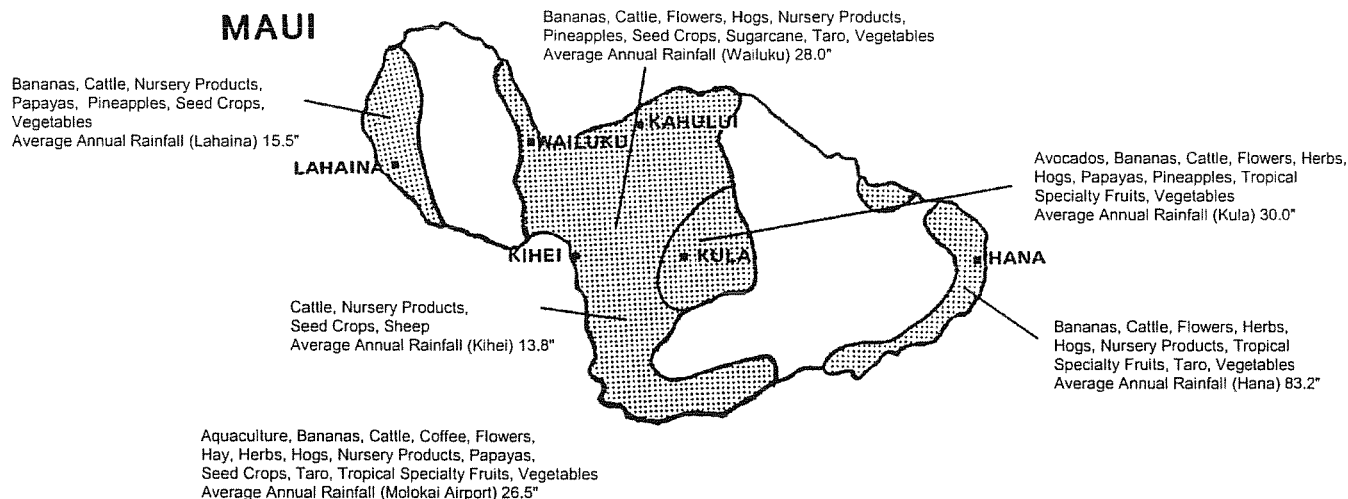
Source: U. S. Department of Commerce, National Oceanic and Atmospheric Administration. Most rainfall stations were selected from the National Weather Service's hydronet system of automated gages, and those data have not been quality controlled to date, and therefore are not certified by the National Weather Service.

MAJOR AGRICULTURAL AREAS, STATE OF HAWAII, 2004

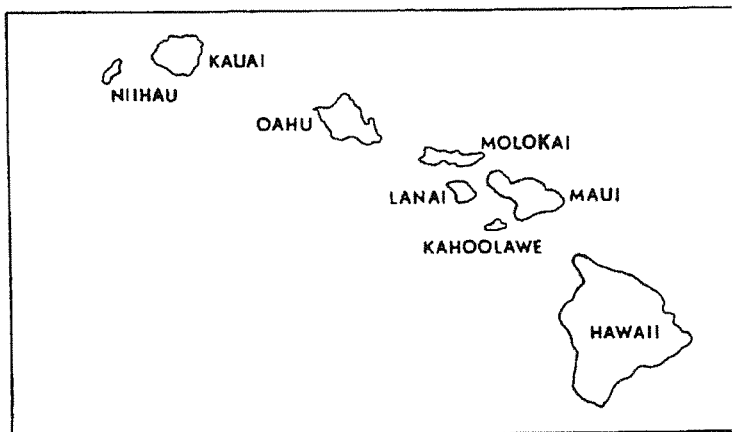
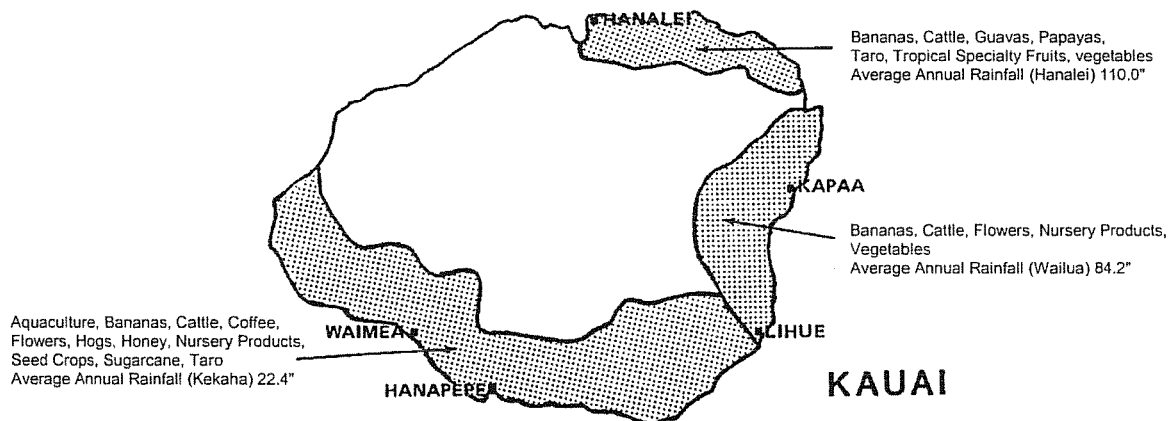


OAHU





MOLOKAI



SUMMARIES

Top 20 commodities, State of Hawaii, 2003-2004

Commodity ¹	Rank		Value of production	
	2003	2004	2003	2004
	--- Number ---		--- 1,000 dollars ---	
Pineapples (fresh equivalent)	1	1	101,470	79,934
Sugarcane (unprocessed)	2	2	64,400	61,500
Seed crops	3	3	49,160	60,200
Macadamia nuts	4	4	32,330	40,115
Cattle	7	5	17,192	22,125
Milk	6	6	21,449	20,175
Coffee	5	7	24,070	19,880
Algae	9	8	11,848	12,602
Papayas	8	9	13,069	12,361
Tomatoes	10	10	10,150	11,088
Eggs	11	11	9,396	10,665
Bananas	12	12	9,225	8,085
Palms, potted	13	13	7,404	7,322
Dendrobium, pots	14	14	6,154	6,748
Dracaena, potted	16	15	5,573	5,735
Ginger root	19	16	3,600	5,400
Anthuriums	15	17	5,832	4,665
Basil	17	18	4,960	4,640
Hogs	18	19	4,345	4,463
Dendrobium, sprays	20	20	3,069	3,194

¹ Floriculture categories include only growers with total sales of \$10,000 or more.

Farm values, State of Hawaii, 1985-2004

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Diversified agriculture ¹	Total
	1,000 dollars			
1985	222,400	90,530	215,719	528,649
1986	233,800	99,720	231,197	564,717
1987	218,000	99,286	240,012	557,298
1988	209,900	107,402	256,660	573,962
1989	210,300	98,310	276,438	585,048
1990	213,800	106,365	275,789	595,954
1991	174,900	107,775	268,707	551,382
1992	153,700	102,100	264,427	520,227
1993	163,000	79,850	271,094	513,944
1994	160,100	78,890	273,826	512,816
1995	127,700	87,360	291,632	506,692
1996	108,100	95,914	307,329	511,343
1997	85,500	91,721	327,484	504,705
1998	87,300	92,776	329,886	509,962
1999	86,800	101,448	342,846	531,094
2000	62,200	101,530	358,170	521,900
2001	57,800	96,337	370,244	524,381
2002	64,300	100,616	374,400	539,316
2003	64,400	101,470	382,253	548,123
2004	61,500	79,934	402,790	544,224

¹ Aquaculture included beginning 1993.

Diversified agriculture ranked by value, State of Hawaii, 2003-2004

Commodity	Rank		Value of production			Percent of diversified agriculture	
	2003	2004	2003	2004	Year-to-year percent change	2003	2004
	--- Number ---		----- 1,000 dollars -----			----- Percent -----	
Flowers and nursery products	1	1	95,601	94,525	-1	25.0	23.5
Vegetables and melons ¹	2	2	64,173	67,892	+6	16.8	16.9
Seed crops	3	3	49,160	60,200	+22	12.9	14.9
Macadamia nuts	4	4	32,330	40,115	+24	8.5	10.0
Aquaculture	5	5	27,650	28,100	+2	7.2	7.0
Fruits (excluding pineapples)	6	6	26,819	24,736	-8	7.0	6.1
Cattle	9	7	17,192	22,125	+29	4.5	5.5
Milk	8	8	21,449	20,175	-6	5.6	5.0
Coffee	7	9	24,070	19,880	-17	6.3	4.9
Eggs	10	10	9,396	10,665	+14	2.5	2.6
Hogs	11	11	4,345	4,463	+3	1.1	1.1
Other livestock and crops			10,068	9,914	-2	2.6	2.5
Total			382,253	402,790	+5	100.0	100.0

¹ Includes ginger root and herbs.

SUMMARY: Acreage in crop and total farm acreage, by counties, 2000-2004

Year	Sugarcane	Pineapples ¹	Vegetables and melons ^{2 3}	Fruits (excluding pineapples)	Coffee	Macadamia nuts	All other crops ⁴	Total farm acreage ⁵
1,000 acres								
State ⁶								
2000	60.0	20.7	6.4	7.1	7.9	18.4	7.3	1,380
2001	46.0	20.1	6.5	7.1	8.0	18.0	8.7	1,350
2002	47.5	19.1	6.8	6.6	7.2	18.0	8.2	1,320
2003	47.8	16.0	6.4	6.4	7.3	18.0	9.0	1,300
2004	43.0	13.0	6.7	6.0	7.7	18.0	9.7	1,300
Counties:								
Hawaii								
2000	0	*	1.8	4.1	3.3	⁷	1.7	850
2001	0	*	2.0	4.5	3.4	⁷	2.1	840
2002	0	*	1.8	4.3	3.5	⁷	2.4	830
2003	0	*	1.6	4.1	3.6	⁷	2.5	820
2004	0	*	1.7	3.8	3.8	⁷	3.0	820
Honolulu								
2000	0	11.6	3.1	1.7	⁷	⁷	2.6	70
2001	0	11.0	3.2	1.5	⁷	⁷	3.4	70
2002	0	10.0	3.6	1.1	⁷	⁷	2.7	70
2003	0	10.1	3.4	1.0	⁷	⁷	2.8	70
2004	0	7.5	3.8	.8	⁷	⁷	2.9	70
Kauai								
2000	23.1	*	.2	1.0	⁷	⁷	1.3	180
2001	10.6	*	.1	.8	⁷	⁷	1.4	170
2002	10.8	*	.3	.8	⁷	⁷	1.6	160
2003	11.1	*	.3	.8	⁷	⁷	1.9	150
2004	8.2	*	.3	.9	⁷	⁷	1.9	150
Maui								
2000	36.9	9.1	1.3	.3	⁷	⁷	1.7	280
2001	35.4	9.1	1.2	.3	⁷	⁷	1.8	270
2002	36.7	9.1	1.1	.4	⁷	⁷	1.5	260
2003	36.7	5.9	1.1	.5	⁷	⁷	1.8	260
2004	34.8	5.5	.9	.5	⁷	⁷	1.9	260

* = Less than 50 acres.

¹ Land used for pineapple.² Harvested acreage.³ Includes ginger root.⁴ Includes taro, seed corn, feed and forage crops (excluding pineapple feed products), flowers, nursery products, noni, kava ('awa), and others.⁵ Includes land not in crop and pasture such as farm house lots, roads, woodlots, etc.⁶ Sum of county estimates may not add to State total due to rounding.⁷ Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARIES

SUMMARY: Number of crop farms, by counties, 2000-2004

Year	Sugarcane	Pineapples ¹	Vegetables and melons ²	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Taro	Flowers and nursery products
State								
2000	3	15	580	1,254	670	650	185	735
2001	2	15	575	1,059	700	650	170	790
2002	2	25	600	1,099	710	650	150	870
2003	2	25	570	1,426	715	650	150	865
2004	2	30	620	1,290	750	650	130	920
Counties:								
Hawaii								
2000	0	5	250	705	650	³	85	335
2001	0	6	270	585	675	³	60	360
2002	0	11	270	593	680	³	50	420
2003	0	11	230	746	690	³	40	395
2004	0	15	253	687	710	³	30	425
Honolulu								
2000	0	2	160	162	³	³	15	205
2001	0	2	160	142	³	³	15	220
2002	0	2	175	149	³	³	10	230
2003	0	2	190	179	³	³	15	230
2004	0	2	188	147	³	³	10	235
Kauai								
2000	2	3	50	156	³	³	70	50
2001	1	5	45	139	³	³	70	60
2002	1	7	55	153	³	³	65	65
2003	1	7	55	216	³	³	70	80
2004	1	8	72	196	³	³	65	80
Maui								
2000	1	5	120	231	³	³	15	145
2001	1	2	100	193	³	³	25	150
2002	1	5	100	204	³	³	25	155
2003	1	5	95	285	³	³	25	160
2004	1	5	107	260	³	³	25	180

¹ Includes specialty pineapple.

² Includes ginger root, herbs, noni, kava (`awa), and others.

³ Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARIES

SUMMARY: Number of livestock operations and total number of farms, by counties, 2000-2004

Year	Cattle ¹	Hogs	Milk	Eggs	Honey	Total (non-duplicated) ²
State						
2000	800	230	35	70	33	5,500
2001	750	230	30	75	30	5,500
2002	750	210	30	80	30	5,500
2003	750	210	30	80	29	5,500
2004	800	250	30	80	31	5,500
Counties:						
Hawaii						
2000	470	70	18	32	17	3,300
2001	440	70	14	35	14	3,250
2002	440	60	14	37	16	3,250
2003	440	60	14	37	14	3,250
2004	470	70	14	37	16	3,250
Honolulu						
2000	60	70	6	15	³ 3	900
2001	50	70	6	15	³ 3	850
2002	50	70	6	15	³ 3	800
2003	50	70	6	15	³ 3	800
2004	50	80	6	15	³ 3	800
Kauai						
2000	100	30	5	6	³ 16	500
2001	110	30	4	6	³ 16	550
2002	120	30	4	8	³ 14	600
2003	120	30	4	8	³ 15	600
2004	120	40	4	8	³ 15	600
Maui						
2000	170	60	6	17	³ 3	800
2001	150	60	6	19	³ 3	850
2002	140	50	6	20	³ 3	850
2003	140	50	6	20	³ 3	850
2004	160	60	6	20	³ 3	850

¹ Includes beef, dairy, and dairy replacement operations.

² Based on farm definition of \$1,000 or more of agricultural sales.

³ Honolulu and Maui combined with Kauai to avoid disclosure of individual operations.

SUMMARIES

SUMMARY: Value of crop sales, by counties, 2000-2004

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables, ginger root, herbs, and melons ¹	Fruits (excluding pineapples)	Coffee (parchment)
<i>1,000 dollars</i>					
State ⁴					
2000	62,200	101,530	59,159	31,364	23,055
2001	57,800	96,337	62,043	30,190	19,600
2002	64,300	100,616	61,659	25,267	23,250
2003	64,400	101,470	64,173	26,819	24,070
2004	61,500	79,934	67,892	24,736	19,880
Counties:					
Hawaii					
2000	0	⁶	17,910	17,522	15,200
2001	0	⁶	17,743	18,724	13,175
2002	0	⁶	13,823	17,792	15,990
2003	0	⁶	14,235	19,881	15,200
2004	0	⁶	18,859	18,666	14,880
Honolulu					
2000	0	72,085	29,982	8,985	⁶
2001	0	69,222	32,601	7,538	⁶
2002	0	70,992	36,533	3,750	⁶
2003	0	71,029	37,213	3,748	⁶
2004	0	51,957	37,661	2,605	⁶
Kauai					
2000	18,500	⁶	1,446	3,755	⁶
2001	12,900	⁶	1,574	3,007	⁶
2002	13,000	⁶	1,659	2,455	⁶
2003	13,500	⁶	2,495	1,739	⁶
2004	15,300	⁶	1,740	1,992	⁶
Maui					
2000	43,700	29,445	9,821	1,102	⁶
2001	44,900	27,115	10,125	921	⁶
2002	51,300	29,624	9,644	1,270	⁶
2003	50,900	30,441	10,229	1,451	⁶
2004	46,200	27,977	9,632	1,473	⁶

See footnotes at end of table.

Continued

SUMMARY: Value of crop sales, by counties, 2000-2004 -- Continued

Year	Macadamia nuts (in-shell)	Taro	Seed crops	Flowers and nursery products ²	Total crops ³
<i>1,000 dollars</i>					
State⁴					
2000	29,500	3,710	37,500	82,684	431,482
2001	33,040	3,392	45,000	88,597	437,438
2002	30,210	3,294	48,145	95,715	⁵ 453,400
2003	32,330	2,700	49,160	95,601	461,680
2004	40,115	2,808	60,200	94,525	452,552
Counties:					
Hawaii					
2000	⁶	506	⁶	47,499	128,161
2001	⁶	443	⁶	50,637	134,380
2002	⁶	415	⁶	49,870	⁵ 128,426
2003	⁶	335	⁶	50,206	132,331
2004	⁶	288	⁶	50,455	143,045
Honolulu					
2000	⁶	⁶	⁶	24,001	145,784
2001	⁶	⁶	⁶	26,198	146,504
2002	⁶	⁶	⁶	32,106	⁵ 153,725
2003	⁶	⁶	⁶	31,092	154,228
2004	⁶	⁶	⁶	31,658	138,085
Kauai					
2000	⁶	2,520	⁶	1,266	42,886
2001	⁶	2,258	⁶	1,864	38,292
2002	⁶	2,189	⁶	2,633	⁵ 40,854
2003	⁶	1,760	⁶	3,067	47,077
2004	⁶	2,079	⁶	2,865	47,466
Maui					
2000	⁶	⁶	⁶	9,918	114,651
2001	⁶	⁶	⁶	9,898	118,262
2002	⁶	⁶	⁶	11,106	⁵ 130,395
2003	⁶	⁶	⁶	11,236	128,043
2004	⁶	⁶	⁶	9,547	123,956

¹ Includes noni, kava (`awa), and others.² Flowers, foliage, and nursery products.³ Total crop values shown for individual counties are actual. Sum of individual commodities may not add to total. Forage crops' and Forest product's value combined and included in total crop value.⁴ Sum of county estimates may not add to State total due to rounding.⁵ Revised.⁶ Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARIES

SUMMARY: Value of livestock sales, total value of crop, livestock sales, aquaculture, and government payments, by counties, 2000-2004

Year	Cattle ¹	Hogs ¹	Milk	Eggs	Aquaculture	Total livestock and aquaculture ²	Total crops, livestock and aquaculture	Government payments ³
<i>1,000 dollars</i>								
State ⁴								
2000	19,204	4,425	28,102	⁵ 10,639	22,170	⁵ 90,459	⁵ 521,941	11,927
2001	18,007	4,514	26,546	⁵ 9,637	22,200	⁵ 86,940	⁵ 524,378	3,860
2002	18,326	4,788	22,467	⁵ 8,854	25,180	⁵ 86,118	⁵ 539,518	1,911
2003	17,192	4,345	21,449	9,396	27,650	86,443	548,123	1,448
2004	22,125	4,463	20,175	10,665	28,100	91,672	544,224	231
Counties:								
Hawaii								
2000	14,138	475	⁶	⁶	16,009	42,088	170,249	NA
2001	13,438	465	⁶	⁶	16,198	42,076	176,456	NA
2002	13,724	560	⁶	⁶	17,329	44,554	⁵ 172,980	1,116
2003	13,811	440	⁶	⁶	19,639	46,900	179,231	NA
2004	16,609	407	⁶	⁶	21,211	51,131	194,176	NA
Honolulu								
2000	556	2,637	19,387	⁵ 7,512	2,985	⁵ 34,946	⁵ 180,730	NA
2001	604	2,848	18,920	⁵ 6,663	2,815	⁵ 33,770	⁵ 180,274	NA
2002	572	2,960	14,401	⁵ 6,314	4,179	⁵ 30,232	⁵ 183,957	167
2003	203	2,594	13,502	6,789	4,674	29,298	183,526	NA
2004	670	2,715	12,349	8,126	5,201	30,270	168,355	NA
Kauai								
2000	1,280	378	⁶	⁶	⁶	6,035	48,921	NA
2001	1,527	372	⁶	⁶	⁶	5,092	43,384	NA
2002	1,442	430	⁶	⁶	⁶	5,278	⁵ 46,132	228
2003	912	414	⁶	⁶	⁶	4,139	51,216	NA
2004	1,914	482	⁶	⁶	⁶	3,846	51,312	NA
Maui								
2000	3,230	935	⁶	⁶	⁶	7,390	122,041	NA
2001	2,438	829	⁶	⁶	⁶	6,002	124,264	NA
2002	2,588	838	⁶	⁶	⁶	6,054	⁵ 136,449	400
2003	2,266	897	⁶	⁶	⁶	6,106	134,149	NA
2004	2,932	859	⁶	⁶	⁶	6,425	130,381	NA

NA = Not available.

¹ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

² Sum of individual commodities may not add to total. Includes sheep, wool, turkeys, horses, honey, beeswax, broilers, and chickens.

³ Includes government payments, such as Agricultural Conservation Program, Cattle Indemnity Payment Program, Dairy Indemnity Payment Program, Emergency Conservation Program, Forestry Incentives Program, Emergency Feed Program, wool payments, and sugar support.

⁴ Sum of county estimates may not add to State total due to rounding.

⁵ Revised.

⁶ Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

FOOD EXPENDITURES

U.S. Food Expenditures by families and individuals, selected years, 1929-2003

Year	Disposable personal income	Expenditures for food					
		At home ¹		Away from home ²		Total ³	
	<i>Billion dollars</i>	<i>Billion dollars</i>	<i>Percent</i>	<i>Billion dollars</i>	<i>Percent</i>	<i>Billion dollars</i>	<i>Percent</i>
1929	83.4	16.9	20.3	2.6	3.1	19.5	23.4
1934	52.8	11.1	21.0	1.7	3.2	12.8	24.2
1939	71.4	13.0	18.1	2.3	3.2	15.2	21.3
1944	148.3	22.1	14.9	5.1	3.4	27.2	18.4
1949	190.4	34.3	18.0	7.8	4.1	42.0	22.1
1954	264.3	42.4	16.0	9.3	3.5	51.7	19.6
1959	350.5	50.1	14.3	12.1	3.5	62.3	17.8
1964	462.5	55.5	12.0	15.7	3.4	71.2	15.4
1969	674.0	69.0	10.2	23.4	3.5	92.3	13.7
1974	1,071.6	107.3	10.0	38.5	3.6	145.8	13.6
1979	1,793.5	164.0	9.1	76.9	4.3	240.9	13.4
1984	2,912.0	224.0	7.7	121.9	4.2	345.8	11.9
1989	4,021.7	287.5	7.1	165.5	4.1	453.1	11.3
1994	5,151.8	339.5	6.6	215.8	4.2	555.3	10.8
1999	6,695.0	414.6	6.2	269.5	4.0	684.1	10.2
2003	8,216.5	500.6	6.1	331.9	4.0	832.5	10.1

¹ Food purchases from grocery stores and other retail outlets, including purchases with food stamps and WIC vouchers and food produced and consumed on farms (valued at farm prices) because the value of these foods is included in personal income. Excludes government-donated foods.

² Purchases of meals and snacks by families and individuals, and food furnished to employees since it is included in personal income. Excludes food paid for by government and business, such as donated foods to schools, meals in prisons and other institutions, and expense-account meals.

³ Total may not add due to rounding.

Source: Economic Research Service, USDA.

RECORD HIGHS AND LOWS

Record highs and lows for selected items, State of Hawaii

Item	Unit	Record high		Record low		Year estimate started
		Quantity	Year ¹	Quantity	Year ¹	
Anthuriums						
Total sold	1,000 doz.	2,532	1980	216	1959	1959
Price ²	\$/doz.	9.09	1997	.71	1967	1959
Avocados						
Harvested	Acres	330	1986	90	1975	1946
Production	1,000 lbs.	1,600	1982	400	1996	1946
Price ²	¢/lb.	63.0	2004	6.1	1959	1946
Bananas						
Harvested	Acres	1,490	2001	550	1977	1946
Production	1,000 lbs.	29,000	2000	4,470	1983	1946
Price ²	¢/lb.	49.0	2004	4.6	1946	1946
Cabbage, Head						
Harvested	Acres	740	1947	360	2004	1946
Production	1,000 lbs.	15,750	1989	6,800	1953	1946
Price ²	¢/lb.	22.0	2003	3.0	1959	1946
Coffee						
Harvested	Acres	6,800	2000	1,650	1985	1946
Production	1,000 lbs.	18,496	1957	990	1982	1946
Price ²	¢/lb.	390.0	1989	17.8	1946	1946
Foliage, potted (indoor)						
Sales (value)	\$1,000	19,236	2001	171	1972	1972
Ginger Root						
Harvested	Acres	360	2001	11	1974	1946
Production	1,000 lbs.	18,000	2001	352	1974	1946
Price ²	¢/lb.	92.3	1982	16.2	1949	1946
Guavas						
Harvested	Acres	1,040	1990	60	1957	1955
Production	1,000 lbs.	24,100	1990	1,737	1957	1955
Price ²	¢/lb.	15.0	2002	3.1	1956	1955
Macadamia nuts						
Harvested	Acres	19,300	1995	830	1953	1946
Production (<i>net, wet-in-shell</i>)	1,000 lbs.	58,000	1997	630	1946	1946
Price ² (<i>net, wet-in-shell</i>)	¢/lb.	90.0	1988	15.2	1946	1946
Papayas						
Harvested	Acres	2,650	1985	320	1952	1946
Production	1,000 lbs.	80,500	1984	5,525	1947	1946
Price ²	¢/lb.	48.9	1997	3.2	1946	1946

See footnotes at end of table.

Continued

RECORD HIGHS AND LOWS

Record highs and lows for selected items, State of Hawaii -- Continued

Item	Unit	Record high		Record low		Year estimate started
		Quantity	Year ¹	Quantity	Year ¹	
Pineapples						
Total in crop	Acres	76,700	1957	13,000	2004	1946
Production	1,000 tons	1,048	1955	220	2004	1950
Value (farm)	\$1,000	107,775	1991	29,700	1951	1950
Sugar³						
Harvested	Acres	145,000	1933	19,300	2001	1909
Yield/acre (sugar)	Tons/acre	13.15	2003	4.81	1910	1909
Production (raw sugar)	1,000 tons	1,234	1966	246	2001	1909
Price ² (sugar)	\$/Ton	633.00	1974	52.00	1940	1909
Taro						
Harvested	Acres	1,020	1948	320	1980	1946
Production	1,000 lbs.	14,195	1948	5,000	2003	1946
Price ²	¢/lb.	54.0	2004	3.1	1949	1946
Tomatoes						
Harvested	Acres	600	2004	150	1972	1946
Production	1,000 lbs.	17,500	2003	3,300	1972	1946
Price ²	¢/lb.	66.0	2004	9.1	1947	1946
Watermelons						
Harvested	Acres	870	1950	125	1979	1946
Production	1,000 lbs.	20,400	1995	1,130	1979	1946
Price ²	¢/lb.	26.0	2002	6.4	1955	1946
Cattle and calves						
Jan. 1 inventory	Head	249,000	1971	130,000	1946	1946
Production (lv. wgt.)	1,000 lbs.	64,750	1989	25,470	1953	1946
Price ²	\$/cwt.	58.10	2003	12.30	1946	1946
Hogs and pigs						
Dec. 1 inventory	Head	72,000	1965	22,000	2004	1960
Production (lv. wgt.)	1,000 lbs.	13,159	1978	5,130	2004	1960
Price ²	\$/cwt.	84.70	2004	29.50	1964	1960
Milk						
Marketings	Million lbs.	157.1	1988	65.2	1946	1946
Production per cow	lbs./cow	14,667	2002	8,750	1960	1960
Price ²	\$/cwt.	26.50	1999	6.75	1946	1946
Eggs						
Layers Dec. 1	Head	1,037,000	1974	302,000	1950	1950
Production	Million eggs	229.3	1979	117.2	2003	1958
Price ²	¢/doz.	108.0	2004	39.2	1968	1958

¹ In case of a tie, the most recent year was used.

² Prices are annual or crop-year average.

³ Primary data source, Hawaiian Sugar Planters' Association.

AGRICULTURE'S CONTRIBUTIONS TO HAWAII'S ECONOMY, 2000

If you inquire about the size of a condominium unit, one person might respond by stating the number of bedrooms, bathrooms, and associated parking stalls. Alternatively, another might state the square-foot area of its interior area and lanai. Both descriptions convey useful but different information.

Likewise, when we describe the contribution of agriculture to Hawaii's economy, we can portray it in several ways. The actual estimates may vary depending on what is defined as "agriculture" and on the methodology applied to develop the estimates. Here, we define agriculture as including farm production, forestry, fisheries, agricultural services, and food processing, as well as the related distribution margins (transportation, wholesale, and retail) used in delivering agricultural products and services. Then, we summarize and compare three measures of contribution--sales, value added (GSP), and employment--for three benchmark years: 1992, 1997, and 2000. (For more detail on this subject, see CTAHR publication EI-3, *Agriculture's Contribution to Hawaii's Economy--An Update*, available at <www.ctahr.hawaii.edu>.

Agriculture sales

Sales value is the most common measure of economic activities. It includes the farmgate value routinely reported by the Hawaii Department of Agriculture. Total agriculture sales (farm production, agricultural service, forestry and fisheries, and food processing) decreased from \$2.14 billion in 1992 to \$1.87 billion in 1997 but rebounded to \$1.94 billion in 2000.

While sugarcane sales value declined sharply by 10% annually during the 1992-2000 period, pineapple sales value remained stable at \$102 million after a slight decline in 1997. The continual decrease in sugarcane sales value is largely offset by the tremendous growth in sales value of diversified agriculture (including seed crops, coffee, macadamia nuts, fruits, vegetables, flowers, and nursery products), which increased at an annual rate of 3.8% between 1992 and 2000. Reflecting this trend, the sales value of diversified agriculture jumped from just over 50% of total farm production in 1992 to almost 70% in 2000. Diversified agriculture posted record high sales of \$357 million in 2000.

Value added--the contribution to GSP

An industry's gross state product (GSP) is the value added in production contributed by labor and property. It is equivalent to the value of production minus the value of intermediate goods that producers buy from other producers. Hawaii's economy as measured by total GSP decreased slightly at an annual rate of 0.8% during the 1992-1997 period, but it rebounded at a yearly rate of 1.7% from 1997 to 2000. Agriculture's GSP likewise decreased during the 1992-1997 period, at a higher annual rate of 2.3%, but it came back strongly from 1997 to 2000 with a robust annual rate of increase of 2.5%. During this latter period,

agriculture's contribution to Hawaii's economy had a higher rate of growth than the other sectors combined. Agriculture, including its distribution margins, contributes 3.1% of Hawaii's total GSP--a fairly constant share since 1992.

Agriculture's contribution to employment

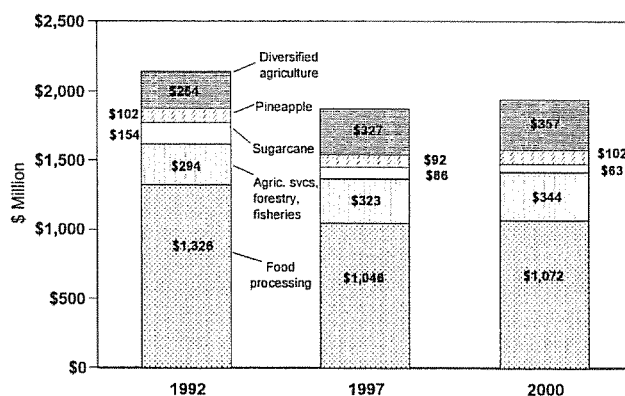
Employment (the number of full and part-time jobs) provides another good indicator in measuring the contribution of an industry to the economy. In 1992, agriculture contributed 4.2% of total employment in the state, but it declined slightly to 3.7% in 1997, before reversing the trend and rising to 3.8% in 2000. When distribution margins are included, agriculture in 2000 contributed over 38,000 jobs, or 5.0% of the total statewide employment.

Alternate methodology

The U.S. Department of Agriculture's Economic Research Service (USDA-ERS) also estimates the impact of agriculture in Hawaii. ERS uses the national input-output table to assess the total economic activity (in terms of value added, employment, and output) in providing food, clothing, tobacco, flowers, and other agricultural products to the final consumers. By this measure, in 1997 the estimated total contribution of Hawaii's agriculture in terms of value added was \$4.72 billion and employment was 114,431 jobs; these correspond to 12.3% of Hawaii's total value added and 15.4% of state employment¹. These estimates are obviously higher than those presented above, primarily due to the much-expanded definition of agriculture used by ERS.

¹ Dr. William Edmondson, ERS-USDA, provided the 1997 estimates, the most recent available.

Sales by agricultural sector



PingSun Leung, Dept. of Molecular Biosciences and Bioengineering, and Matthew K. Loke, Hawaii Department of Agriculture. Published by the College of Tropical Agriculture and Human Resources (CTAHR) and issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Andrew G. Hashimoto, Director/Dean, Cooperative Extension Service/CTAHR, University of Hawaii at Manoa, Honolulu, Hawaii 96822. An Equal Opportunity / Affirmative Action Institution providing programs and services to the people of Hawaii without regard to race, sex, age, religion, color, national origin, ancestry, disability, marital status, arrest and court record, sexual orientation, or veteran status. CTAHR publications can be found on the Web site <<http://www.ctahr.hawaii.edu>> or ordered by calling 808-956-7046 or sending e-mail to ctahrpub@hawaii.edu.

FARM FINANCIAL INDICATORS

Farm Business Balance Sheet, State of Hawaii, December 31, 2000-2004

	2000	2001	2002	2003	2004
<i>Thousand dollars</i>					
Farm assets	3,808,176	4,025,315	4,175,231	4,463,007	NA
Farm debt ¹	254,462	265,216	276,628	282,687	NA
Real estate	137,412	144,793	155,693	161,281	NA
Nonreal estate	117,051	120,423	120,935	121,406	NA
Equity	3,553,714	3,760,099	3,898,603	4,180,320	NA
Ratio:					
Debt/equity	7.2	7.1	7.1	6.8	NA
Debt/assets	6.7	6.6	6.6	6.3	NA

NA = Not available at time of printing.

¹ Excludes debt for nonfarm purposes.

Source: Economic Research Service, USDA.

Farm Financial Indicators - value added to the Hawaii economy by the agricultural sector via the production of goods and services, 2000-2004

	2000	2001	2002	2003	2004
<i>Thousand dollars</i>					
Value of crop production	431,963	437,496	453,899	461,110	457,421
Value of livestock production	84,610	89,562	85,169	89,549	92,714
Services and forestry	38,946	41,090	43,919	65,663	71,494
Value of agricultural sector production ¹	555,519	568,147	582,988	616,322	621,629
less: Purchased inputs	196,426	206,532	209,200	224,544	231,725
Farm origin	43,991	50,511	53,268	54,115	55,846
Manufactured inputs	63,083	61,924	59,117	67,588	69,749
Other purchased inputs	89,352	94,097	96,815	102,841	106,130
plus: Net government transactions	4,780	(3,330)	(5,281)	(5,777)	(5,084)
Gross value added	363,873	358,285	368,506	386,001	384,821
less: Capital consumption	37,441	38,221	38,812	39,692	41,802
Net value added ¹	326,432	320,064	329,694	346,309	343,019
less: Payments to stakeholders	214,655	206,937	211,679	211,009	221,076
Employee compensation (total hired labor)	181,765	176,603	183,611	182,100	191,385
Net rent received by nonoperator landlords	11,818	11,093	10,698	11,048	11,077
Real estate and nonreal estate interest	21,072	19,241	17,370	17,861	18,614
Net farm income ¹	111,777	113,127	118,015	135,300	121,943

¹ Value of agricultural sector production is the gross value of the commodities and services produced within a year. Net value-added is the sector's contribution to the Hawaii economy and is the sum of the income from production earned by all factors-of-production. Net farm income is the farm operators' share of income from the sector's production activities. The concept presented is consistent with that employed by the Organization for Economic Cooperation and Development.

Source: Economic Research Service, USDA.

2004 SUGAR AND SPECIALTY CROP HIGHLIGHTS

SUGAR

Sugar production for 2004 decreased 1 percent from the previous year to 258,000 tons of 96⁰ raw sugar. The plantations were able to harvest 2.0 million tons of sugarcane from 21,800 acres, for an average yield of 90.8 tons of sugarcane per acre. Sugar prices during 2004 decreased 3 percent to \$355 per ton of 96⁰ raw sugar, which generated a total value of \$91.7 million for raw sugar and 4 percent less than 2003.

COFFEE

Statewide coffee production was estimated at 5.6 million pounds (parchment basis) for the 2004-2005 season, down 33 percent from last season's harvest of 8.3 million pounds. Coffee farmers received an average of \$3.55 per pound (parchment equivalent) during the 2004-2005 season, up 22 percent from last season. Coffee growers across the State generated \$19.9 million in farm sales (parchment basis), down 17 percent from the 2003-2004 season.

Hawaii County production totaled 3.2 million pounds (parchment basis) during the 2004-2005 season, down 20 percent from the previous season. Average yields declined 23 percent as the wet winter, with heavy showers and gusty winds, hindered production. Labor shortages during harvest also played a part in the decline.

Combined production from the counties of Kauai, Maui, and Honolulu totaled 2.4 million pounds (parchment basis) for the 2004-2005 season, down 44 percent from the previous season. The decline in production on Kauai, Maui, and Honolulu Counties was mostly due to fruit losses during the wet winter.

MACADAMIA NUTS

Hawaii's 2004-2005 macadamia nut harvest is estimated at 56.5 million pounds net, wet-in-shell, up 3.5 million pounds from last season's supply. Total and harvested acreage remained the same as 2003-2004 at 18,000 acres and 17,800 acres, respectively. The statewide estimate of macadamia nut trees totaled 1.3 million, of which virtually all were 6 years and older. Overall yields averaged 3,170 pounds per acre net, wet-in-shell, up 6 percent from the previous season.

Weather for the season had a mixed effect on the orchards and nuts. Rainy weather during late 2004 and early 2005 benefitted orchards in drier areas. In January, a storm with high winds knocked over trees in the Ka'u area. Immature nuts continued to rank first with 27 percent of the losses. Other losses were due to moldy rotten nuts at 19 percent, tropical nut borer at 11 percent, and stink bug at 23 percent.

Farm prices for 2004-2005 averaged 73.0 cents per pound, 12.0 cents more than last season and the highest since 1997-1998. Industry sources attribute the boost to a higher demand for macadamia nuts. The farm value of macadamia nuts totaled \$41.2 million up 28 percent from last season. The average moisture content for this crop season was 20.7 percent, 2 percent higher than last season.

**COFFEE: Number of farms, acreage, yield, marketings, price, and value,
by counties, 2000/2001-2004/2005 crop years**

Crop year ¹	Farms	Acreage		Yield ²	Marketings ³	Farm prices			Value of sales	Green production
		In crop	Harvested			Cherry	Parchment	All ⁴		
	<i>Number</i>	<i>----- Acres -----</i>		<i>--- 1,000 pounds ---</i>		<i>----- Cents per pound -----</i>			<i>1,000 dollars</i>	<i>1,000 pounds</i>
State										
2000-2001	670	7,900	6,800	1.3	8,700			265.0	23,055	7,000
2001-2002	700	8,000	6,300	1.3	8,000			245.0	19,600	6,400
2002-2003	710	7,200	5,900	1.3	7,500			310.0	23,250	5,900
2003-2004	715	7,300	5,900	1.4	8,300			290.0	24,070	6,600
2004-2005	750	7,700	5,800	1.0	5,600			355.0	19,880	4,500
Counties:										
Hawaii										
2000-2001	650	3,350	2,700	1.4	3,800	85.0	425.0	400.0	15,200	3,000
2001-2002	675	3,430	2,850	1.1	3,100	85.0	425.0	425.0	13,175	2,500
2002-2003	680	3,500	2,850	1.4	4,100	90.0	405.0	390.0	15,990	3,200
2003-2004	690	3,600	3,000	1.3	4,000	85.0	365.0	380.0	15,200	3,200
2004-2005	710	3,750	3,300	1.0	3,200	110.0	660.0	465.0	14,880	2,600
Honolulu/Kauai/Maui⁵										
2000-2001	20	4,550	4,100	1.1	4,900			160.0	7,855	4,000
2001-2002	25	4,570	3,450	1.4	4,900			131.0	6,425	3,900
2002-2003	30	3,700	3,050	1.1	3,400			213.5	7,260	2,700
2003-2004	25	3,700	2,900	1.5	4,300			206.3	8,870	3,400
2004-2005	40	3,950	2,500	1.0	2,400			208.3	5,000	1,900

¹ Coffee harvesting occurs throughout the year in Hawaii. The main harvest normally begins in late summer and extends to the early part of the following year.

² Average yields based on parchment equivalent marketings and harvested acreage.

³ Expressed in parchment equivalent pounds. Coffee marketed in cherry form was converted to an equivalent parchment weight and added to parchment marketings.

⁴ Represents an average farm price for parchment equivalent sales. Obtained by dividing farm revenues from the sale of cherry and parchment coffee by total marketings (parchment equivalent basis).

⁵ Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

GINGER ROOT, KAVA (`AWA)

Ginger root farmers statewide harvested 5.1 million pounds during the 2004-2005 season, down 15 percent from the previous season estimate. Most of the State's ginger root is grown in the windward areas of Hawaii County where weather conditions were less than ideal during the 2004-2005 season. While ginger root needs abundant rainfall during the initial growing phase, it requires drier weather as the crop nears harvest in late fall and extends into spring. While not as severe as the previous season, wet conditions during the main harvesting season fostered an increase in disease which adversely affected production. Ginger root growers received an average of 80.0 cents per pound during the 2004-2005 season, down 11 percent from the previous season. A combination of relatively low local production and increased sales of organic ginger root contributed to the rise in farm prices. High prices for imported ginger root also had a major impact.

GINGER ROOT: Acreage, yield, production, price, and value, State of Hawaii, 2000/2001-2004/2005 crop years

Crop year ¹	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
2000-2001	360	50.0	18,000	45.0	8,100
2001-2002	320	45.0	14,400	30.0	4,320
2002-2003	160	37.5	6,000	60.0	3,600
2003-2004	150	40.0	6,000	90.0	5,400
2004-2005	120	42.5	5,100	80.0	4,080

¹ Harvesting normally begins in December and continues into the following year.

GINGER ROOT: U.S. imports, 2000-2004

Year	Unground (including fresh)	Ground	Sweet	Candied	Total ¹
					1,000 pounds
2000	41,140	825	2,845	2,080	46,890
2001	39,682	2,255	2,649	2,151	46,737
2002	44,306	2,244	3,315	3,017	52,882
2003	57,548	2,740	4,828	3,137	68,252
2004	59,162	4,603	5,784	2,957	72,506

¹ Sum of categories may not add to total due to rounding.

Source: Foreign Agricultural Trade of the United States, Economic Research Service, U.S. Department of Agriculture.

KAVA (`AWA): Number of farms, acreage, production, price, and value, State of Hawaii, 2000-2004

Year	Farms	Acreage ¹		Total sales ³	Farm price ⁴	Value of sales
		Total ²	Harvested			
	Number	----- Acres -----		1,000 pounds	Dollars per pound	1,000 dollars
2000	50	80	5	85	1.40	119
2001	65	70	35	450	1.30	585
2002	55	50	15	60	1.15	69
2003	25	20	10	25	4.40	110
2004 ⁵						

¹ Includes kava inter-planted with another crop. ² As of December 31. ³ Fresh weight basis. Dried kava (`awa) sales were converted to a fresh weight basis by multiplying by five. Includes all types of sale, including organic. ⁴ Represents average farm price for fresh sales. ⁵ Beginning 2004, data series discontinued.

HERBS, SEED CROPS

FRESH HERBS: Production, price, and value, State of Hawaii, 2000-2004

Year	Basil			Parsley	Chinese parsley (Cilantro)	Other herbs ¹	All herbs
	Sweet (Italian)	Asian	Total				
Production - 1,000 pounds							
2000	1,600	500	2,100	220	80	500	2,900
2001	1,500	650	2,150	330	100	620	3,200
2002	2,000	1,000	3,000	300	300	550	4,150
2003	2,000	1,200	3,200	310	250	440	4,200
2004	1,800	1,000	2,800	280	240	580	3,900
Farm price - dollars per pound							
2000	2.00	.80		2.00	3.00	2.20	
2001	2.00	.80		2.00	2.10	2.45	
2002	1.95	.85		1.70	1.50	2.30	
2003	2.00	.80		2.20	2.10	2.45	
2004	2.05	.95		2.00	2.20	2.15	
Farm value - 1,000 dollars							
2000	3,200	400	3,600	440	240	1,100	5,380
2001	3,000	520	3,520	660	210	1,519	5,909
2002	3,900	850	4,750	510	450	1,265	6,975
2003	4,000	960	4,960	682	525	1,078	7,245
2004	3,690	950	4,640	560	528	1,247	6,975

¹ Includes spearmint, dill, and other herbs; some of which cannot be published separately to avoid disclosure. Also includes small amount of basil and parsley for which an individual total could not be obtained.

SEED CROPS: Number of farms, acreage, outshipments, and value, State of Hawaii, 2000/2001-2004/2005

Crop year ¹	Farms	Acreage				Total outshipments of seed	Value ²		
		Total	Nursery	Seed increase	Grow-out or observation		Total	Seed corn	Other seed crops
	Number	Acres				1,000 pounds	1,000 dollars		
2000-2001	7	2,900	655	2,130	115	4,800	37,500	36,400	1,100
2001-2002	7	3,100	730	2,240	130	5,600	45,000	43,900	1,100
2002-2003	7	3,900	1,210	2,580	110	5,850	48,145	47,060	1,085
2003-2004	10	3,900	1,045	2,730	125	6,500	49,160	47,435	1,725
2004-2005	10	3,870	1,110	2,610	150	6,800	60,200	55,405	4,795

¹ Seed crops are grown year-round in Hawaii with the main season from November to June.

² Value is based on sales or gross operational budgets.

SUGARCANE

SUGARCANE: Number of farms, acreage, yield, production, price, and value, by counties, 2000-2004 ¹

Year	Farms ²	Acreage		Yield per acre		Production of cane for sugar	Farm price ³	Value of cane for sugar ⁴
		In crop ²	Harvested for sugar	Sugarcane ³	Raw sugar 96°			
	<i>Number</i>	<i>----- 1,000 acres -----</i>		<i>----- Tons -----</i>		<i>1,000 tons</i>	<i>Dollars per ton</i>	<i>Million dollars</i>
State								
2000	3	60.0	30.2	78.3	9.97	2,365	26.30	62.2
2001	2	46.0	19.3	97.3	12.76	1,878	30.80	57.8
2002	2	47.5	21.3	99.0	12.67	2,109	30.50	64.3
2003	2	47.8	19.9	102.0	13.15	2,030	31.70	64.4
2004	2	43.0	21.8	90.8	11.83	1,979	31.10	61.5
Counties:								
Kauai								
2000	2	23.1	12.9	58.2	7.03	751	24.70	18.5
2001	1	10.6	4.2	92.1	13.04	387	33.40	12.9
2002	1	10.8	4.8	86.5	11.40	415	31.30	13.0
2003	1	11.1	4.2	92.6	13.19	389	34.70	13.5
2004	1	8.2	4.9	87.8	12.06	430	35.60	15.3
Maui								
2000	1	36.9	17.3	93.3	12.18	1,614	27.10	43.7
2001	1	35.4	15.1	98.7	12.68	1,491	30.10	44.9
2002	1	36.7	16.5	102.7	13.04	1,694	30.30	51.3
2003	1	36.7	15.7	104.5	13.14	1,641	31.00	50.9
2004	1	34.8	16.9	91.7	11.77	1,549	29.80	46.2

¹Primary data source, Hawaii Agricultural Research Center.

²At end of year.

³Yield and farm price may not compute exactly due to rounding.

⁴Value of cane for sugar estimated by deducting processing and marketing costs from value of sugar and molasses.

SUGAR: Production of raw sugar and molasses, price, and value, by counties, 2000-2004 ¹

Year	Mill production		Average returns received ²		Value of production		
	Raw sugar 96°	Molasses ³	Raw sugar 96°	Molasses ³	Raw sugar 96°	Molasses ³	Total
	----- 1,000 tons -----		----- Dollars per ton -----		----- Million dollars -----		
State							
2000	301	102	309	27.20	93.1	2.8	95.9
2001	246	86	351	49.70	86.4	4.2	90.6
2002	270	90	355	49.40	95.9	4.4	100.3
2003	261	90	367	35.20	95.9	3.1	99.0
2004	258	80	355	29.50	91.7	2.4	94.1
Counties:							
Kauai							
2000	91	31	305	29.60	27.8	.9	28.7
2001	55	14	349	53.00	19.2	.7	19.9
2002	54	16	359	45.90	19.4	.7	20.1
2003	55	15	365	34.90	20.1	.5	20.6
2004	59	15	386	40.00	22.8	.6	23.4
Maui							
2000	210	71	311	26.20	65.3	1.9	67.2
2001	191	72	352	49.00	67.2	3.5	70.7
2002	216	74	354	50.10	76.5	3.7	80.2
2003	206	75	368	35.30	75.8	2.6	78.4
2004	199	65	346	27.10	68.9	1.8	70.7

¹ Primary data source, Hawaii Agricultural Research Center.² Derived from production and value. State and county prices may not compute exactly due to rounding.³ Commercial.

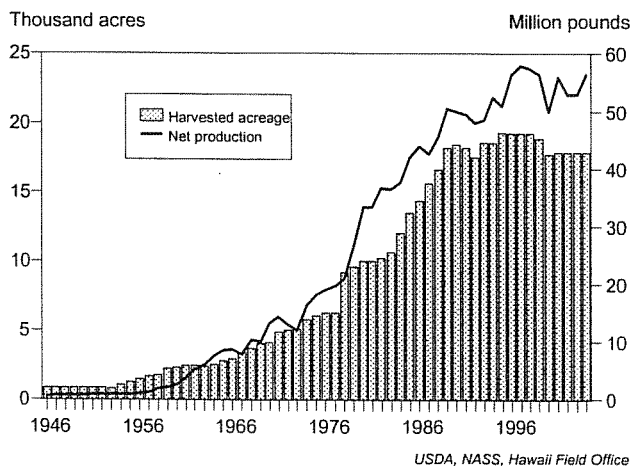
MACADAMIA NUTS

MACADAMIA NUTS: Number of farms, acreage, yield, production, moisture, price, and value, State of Hawaii, 2000/2001-2004/2005 crop years

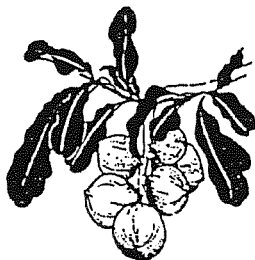
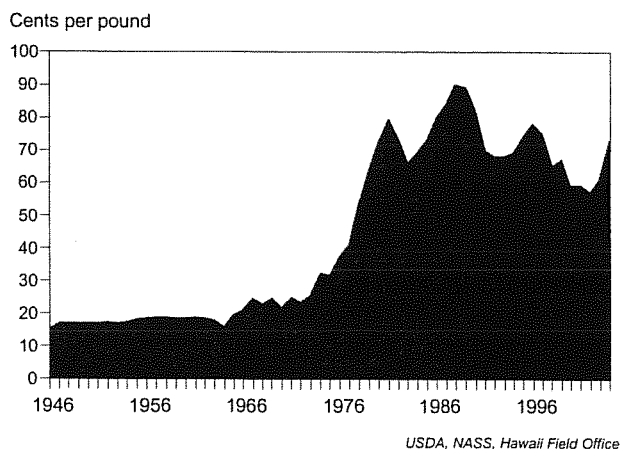
Crop year ¹	Farms	Acreage		Yield per acre ³	Production ⁴		Average moisture		Farm prices ⁴		Farm value ⁸
		In crop	Harvested ²		Gross ⁵	Net ⁶	Entire crop	Purchases only	Gross ⁷	Net	
	<i>Number</i>	<i>----- Acres -----</i>			<i>---- 1,000 pounds ----</i>		<i>----- Percent -----</i>		<i>Cents per pound ----</i>		<i>1,000 dollars</i>
2000-2001	650	18,400	17,700	2.8	56,000	50,000	21.0	21.0	52.7	59.0	29,500
2001-2002	650	18,000	17,800	3.1	62,000	56,000	21.2	21.9	53.3	59.0	33,040
2002-2003	650	18,000	17,800	3.0	60,000	53,000	20.4	20.7	50.4	57.0	30,210
2003-2004	650	18,000	17,800	3.0	60,000	53,000	20.2	20.7	53.9	61.0	32,330
2004-2005	650	18,000	17,800	3.2	63,000	56,500	20.7	21.0	65.5	73.0	41,245

¹ Season begins July 1st and ends June 30th of the following year. ² Called bearing acreage prior to 1993-94 crop year. ³ Net production divided by acreage harvested. ⁴ Wet in-shell basis, delivered to processors. ⁵ Gross pounds delivered for processing. ⁶ Gross pounds delivered for processing less total spoilage. ⁷ Farm value divided by gross production. ⁸ Net production multiplied by net farm price.

MACADAMIA NUTS: Harvested Acreage and Net Production, State of Hawaii, 1946-2004 Seasons



MACADAMIA NUTS: Net Wet-in-shell Farm Prices, State of Hawaii, 1946-2004 Seasons



FLORICULTURE AND NURSERY PRODUCTS

Grower sales of Hawaii's flower and nursery products totaled \$94.5 million in 2004, 1 percent lower than the \$95.6 million value recorded in 2003. Foliage and potted flowering plants were categories registering increases in 2004. Cut flower value of sales declined 8 percent in 2004 to \$13.1 million. Anthuriums remained the leading cut flower with value of sales pegged at \$4.7 million. Value of orchid sales declined 2 percent from 2003. Potted dendrobiums and other potted orchids were leaders in this category.

FLORICULTURE AND NURSERY PRODUCTS: Value of grower sales, by counties, 2000-2004

Year	Cut flowers ¹	Orchids ²	Lei flowers	Foliage ³	Potted flowering plants	All other nursery products ⁴	Unspecified sales ⁵	Total
<i>1,000 dollars</i>								
State								
2000	16,297	18,106	3,615	18,295	5,044	19,850	1,477	82,684
2001	14,566	20,650	3,928	20,380	5,010	22,838	1,225	88,597
2002	13,055	22,823	4,170	17,746	7,052	29,569	1,300	95,715
2003	14,183	23,439	3,704	16,966	5,563	30,391	1,355	95,601
2004	13,108	22,856	3,357	17,718	6,016	30,135	1,335	94,525
Counties:								
Hawaii								
2000	12,592	10,319	1,140	15,757	2,120	4,859	712	47,499
2001	11,194	11,954	1,213	17,885	2,394	5,467	530	50,637
2002	9,191	13,903	1,180	14,860	2,220	7,941	575	49,870
2003	10,321	14,220	1,081	14,358	1,086	8,505	635	50,206
2004	9,748	14,511	933	15,093	1,095	8,435	640	50,455
Honolulu								
2000	680	6,515	1,098	1,940	1,609	11,832	327	24,001
2001	502	7,330	1,384	2,116	1,351	13,195	320	26,198
2002	694	7,587	1,412	2,301	3,465	16,307	340	32,106
2003	639	7,134	1,400	2,157	3,293	16,099	370	31,092
2004	645	6,821	1,555	2,113	3,483	16,701	340	31,658
Kauai								
2000	99	245	⁶	55	194	560	113	1,266
2001	314	255	⁶	⁶	130	1,020	145	1,864
2002	363	326	⁶	⁶	84	1,715	145	2,633
2003	261	456	109	86	140	1,885	130	3,067
2004	189	526	52	65	163	1,730	140	2,865
Maui								
2000	2,926	1,027	⁶	543	1,121	3,976	325	9,918
2001	2,556	1,111	⁶	⁶	1,135	4,866	230	9,898
2002	2,807	1,007	⁶	⁶	1,283	5,769	240	11,106
2003	2,962	1,629	1,114	365	1,044	3,902	220	11,236
2004	2,526	998	817	447	1,275	3,269	215	9,547

¹ Cut orchids included in "Orchids" category. ² Excludes orchids used for lei flowers. ³ Includes potted, cut, and unfinished. Beginning 1998, landscape foliage included with "All other nursery products". ⁴ Includes bedding plants, plant rentals, sod, trees, and any other nursery products not elsewhere classified. Sum of county estimates may not add to State total due to rounding. ⁵ Includes grower sales greater than \$999 but less than \$10,000 which were not categorized. ⁶ Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 2000-2004 ¹

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
CUT FLOWERS			
Anthuriums - dozens			
2000	64	1,010	7,357
2001	61	876	5,929
2002	66	738	4,720
2003	61	810	5,832
2004	59	617	4,665
Birds of Paradise - dozens			
2000	26	101	690
2001	27	97	676
2002	24	94	666
2003	29	74	586
2004	30	51	426
Chrysanthemums, pompon - bunches			
2000	4	206	415
2001	4	217	447
2002	4	225	469
2003	4	229	480
2004	4	217	451
Ginger, pink - dozens			
2000	46	81	542
2001	45	67	460
2002	40	59	474
2003	40	54	477
2004	45	48	470
Ginger, red - dozens			
2000	53	137	750
2001	57	140	820
2002	56	147	1,048
2003	57	140	1,013
2004	55	124	957
Gingers, other - dozens			
2000	26	28	216
2001	23	20	128
2002	22	25	197
2003	27	23	228
2004	33	24	269

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 2000-2004 ¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
Heliconias - dozens			
2000	54	65	671
2001	53	66	672
2002	50	78	734
2003	58	66	792
2004	59	69	820
Proteas - stems			
2000	25	1,915	1,392
2001	28	1,342	1,177
2002	25	1,475	1,108
2003	24	2,012	1,515
2004	32	1,921	1,416
Roses - stems			
2000	9	5,144	2,057
2001 ³			
2002 ³			
2003 ³			
2004 ³			
Other cut flowers - dozens			
2000	32	NA	2,207
2001	45	NA	4,257
2002	55	NA	3,639
2003	49	NA	3,260
2004	51	NA	3,634
ORCHIDS			
Cymbidiums, cut - flowers			
2000	10	509	315
2001	10	383	218
2002	12	464	247
2003	11	464	229
2004	13	408	288
Dendrobiums, sprays - dozens			
2000	49	340	2,335
2001	49	385	2,926
2002	54	462	3,218
2003	50	410	3,069
2004	50	453	3,194

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 2000-2004¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
Oncidiums, sprays - dozens			
2000	37	56	536
2001	36	60	590
2002	34	64	641
2003	34	79	770
2004	29	60	705
Other orchids, sprays⁴ - dozens			
2000	10	NA	119
2001	9	NA	28
2002	16	NA	210
2003	17	NA	656
2004	19	NA	263
Dendrobiums, potted⁵ - pots			
2000	74	1,065	6,528
2001	76	1,155	6,683
2002	76	1,354	7,318
2003	81	1,096	6,154
2004	80	1,243	6,748
Oncidiums, potted⁶ - pots			
2000			
2001			
2002			
2003			
2004	42	457	3,066
Phalaenopsis, potted - pots			
2000	24	143	1,030
2001	29	161	1,055
2002	28	178	1,214
2003	31	246	1,695
2004	31	166	966
Other orchids, potted - pots			
2000	75	1,561	7,243
2001	80	2,148	9,150
2002	82	1,922	9,975
2003	88	1,814	10,866
2004	78	1,357	7,626

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 2000-2004¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
FOLIAGE			
Potted, dracaena			
2000	31	NA	6,648
2001	32	NA	8,443
2002	36	NA	5,604
2003	32	NA	5,573
2004	29	NA	5,735
Potted, palms			
2000	44	NA	8,434
2001	45	NA	8,280
2002	46	NA	7,966
2003	49	NA	7,404
2004	48	NA	7,322
Potted, hanging baskets			
2000	16	NA	123
2001	15	NA	129
2002	16	NA	182
2003	17	NA	146
2004	16	NA	202
Potted, other			
2000	39	NA	1,880
2001	32	NA	2,384
2002	29	NA	2,368
2003	32	NA	2,209
2004	29	NA	2,684
Ti leaves, cut - leaves			
2000	37	2,100	161
2001	39	4,700	432
2002	40	5,900	632
2003	43	7,900	746
2004	41	7,200	669
Other greens, cut			
2000	32	NA	347
2001	32	NA	215
2002	28	NA	259
2003	31	NA	317
2004	36	NA	364
Unfinished foliage stock (for further growing on)			
2000	12	NA	702
2001	8	NA	497
2002	11	NA	735
2003	9	NA	571
2004	11	NA	742

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 2000-2004 ¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
LEI/INDIVIDUAL BLOOMS			
Carnations - blooms			
2000	6	5,400	377
2001	6	5,600	387
2002	7	7,000	360
2003	7	5,000	268
2004	5	3,800	243
Dendrobiums - blooms			
2000	26	19,900	615
2001	27	23,700	732
2002	29	29,300	908
2003	30	25,700	847
2004	26	21,200	593
Pikake - strands			
2000	8	77.8	270
2001	8	62.0	140
2002	9	81.0	242
2003	7	67.0	202
2004	5	56.0	162
Plumerias - blooms			
2000	12	21,700	538
2001	13	29,300	664
2002	14	25,200	604
2003	14	21,200	537
2004	13	16,000	513
Tuberose - blooms			
2000	7	22,100	987
2001	6	29,200	1,405
2002	6	35,300	1,641
2003	7	32,200	1,484
2004	7	28,200	1,302
Vanda, Miss Joaquim - blooms			
2000	7	14,000	503
2001	6	7,900	332
2002	4	2,700	87
2003	6	2,700	86
2004	7	4,100	131
Other lei/individual - blooms			
2000	NA	NA	325
2001	NA	NA	268
2002	NA	NA	328
2003	NA	NA	280
2004	NA	NA	413

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 2000-2004¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
POTTED FLOWERING PLANTS			
Anthuriums - pots			
2000	28	182	677
2001	25	177	673
2002	26	144	751
2003	30	148	804
2004	28	164	879
Bromeliads - pots			
2000	18	111	593
2001	18	138	588
2002	14	221	890
2003	12	117	461
2004	11	131	582
Chrysanthemums - pots			
2000	6	178	738
2001	5	176	737
2002	5	150	652
2003	5	108	497
2004	5	93	468
Poinsettias - pots			
2000	31	334	1,292
2001	35	328	1,273
2002	31	382	1,551
2003	31	344	1,351
2004	32	328	1,414
Other potted flowering plants			
2000	30	NA	1,744
2001	34	NA	1,739
2002	31	NA	3,208
2003	29	NA	2,450
2004	24	NA	2,673
POTTED BEDDING/GARDEN			
Impatiens, New Guinea			
2000	11	104	129
2001	10	131	192
2002	11	121	172
2003	11	132	217
2004	14	139	223
Impatiens, other			
2000	8	169	103
2001	10	279	158
2002	12	268	145
2003	12	444	304
2004	13	440	303

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms, area, quantity, and value, State of Hawaii, 2000-2004 ¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
Other bedding/garden			
2000	30	NA	2,502
2001	29	NA	2,548
2002	29	NA	3,474
2003	29	NA	3,269
2004	29	NA	3,141
PLANT RENTALS			
2000	37	NA	3,374
2001	42	NA	3,098
2002	47	NA	3,801
2003	37	NA	2,959
2004	45	NA	3,385
LANDSCAPE PLANTS ⁷			
2000	98	NA	10,601
2001	110	NA	12,996
2002	117	NA	17,150
2003	125	NA	18,653
2004	126	NA	18,519
OTHER NURSERY PRODUCTS ⁸			
2000			3,141
2001			3,846
2002			4,827
2003			4,989
2004			4,564
UNSPECIFIED SALES ⁹			
2000			1,477
2001			1,225
2002			1,300
2003			1,355
2004			1,335
TOTAL			
2000	735		82,684
2001	790		88,597
2002	870		95,715
2003	865		95,601
2004	920		94,525

NA = Not available. ¹ Beginning 1992, includes only producers having total sales of \$10,000 or more. ² Number for each individual flower item is count of those having sales of that item during each year; "Total" is unduplicated count. ³ Included with "Other cut flowers". ⁴ Includes cattleyas, vanda hybrids, phalaenopsis, and paphiopedilums. ⁵ Includes in bud/bloom and community pots. ⁶ Prior to 2004, included with "Other orchids, potted". ⁷ Includes broadleaf and coniferous evergreens, deciduous and flower trees, palms, citrus, fruit and nut trees, and sod. Does not include palms or potted foliage for indoor or patio use, bedding and garden plants, propagative floriculture material, and items which are included in published categories. ⁸ Includes other flowers or nursery products not elsewhere classified. ⁹ Beginning 1992, includes sales of growers greater than \$999 but less than \$10,000 which were not categorized.

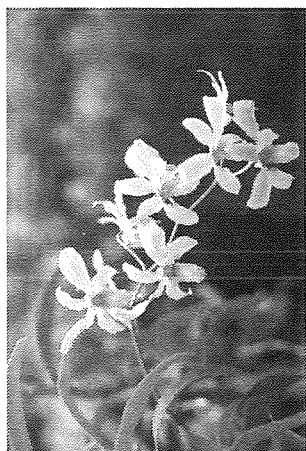
FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of farms and growing area, by counties, 2000-2004

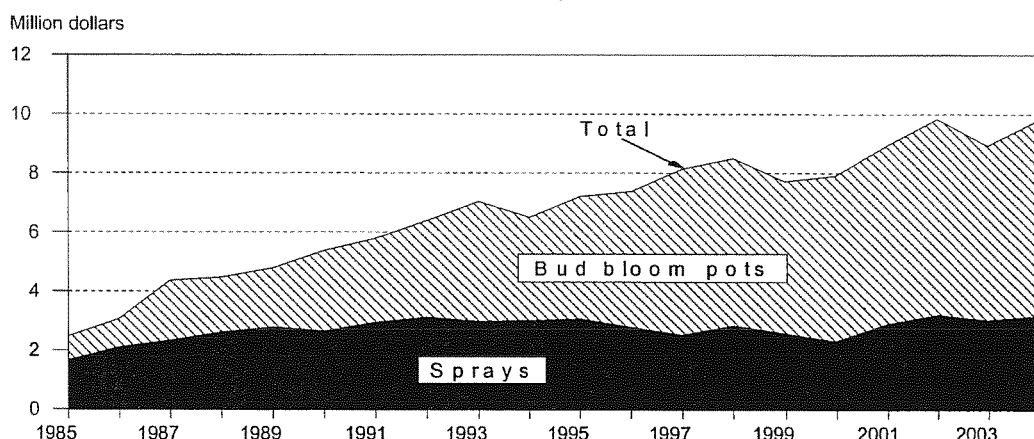
Year	Farms	Greenhouse ¹	Artificial shade	Natural shade	Open field	Total area
	<i>Number</i>	<i>1,000 square feet</i>			<i>Acres</i>	
State						
2000	735	3,235	25,180	7	2,060	2,719
2001	790	3,175	26,660	9	2,355	3,049
2002	870	3,030	30,415	10	2,870	3,648
2003	865	2,540	27,465	16	3,185	3,890
2004	920	2,625	26,495	6	3,200	3,874
Counties:						
Hawaii						
2000	335	2,425	20,675	6	920	1,456
2001	360	2,265	22,010	9	1,055	1,621
2002	420	2,210	24,125	10	1,565	2,180
2003	395	1,895	21,295	16	1,860	2,408
2004	425	1,990	20,850	6	1,885	2,415
Honolulu						
2000	205	395	3,480	0	495	584
2001	220	370	3,625	0	580	672
2002	230	330	5,055	0	585	709
2003	230	230	5,035	0	580	701
2004	235	260	4,580	0	545	656
Kauai						
2000	50	70	340	1	130	140
2001	60	115	295	0	155	164
2002	65	90	495	0	180	193
2003	80	65	360	0	170	180
2004	80	90	310	0	225	234
Maui						
2000	145	345	685	0	515	539
2001	150	425	730	0	565	592
2002	155	400	740	0	540	566
2003	160	350	775	0	575	601
2004	180	285	755	0	545	569

¹ Glass or glass substitute structure.

DENDROBIUMS



DENDROBIUMS: Value of Sales, State of Hawaii, 1985-2004¹



¹ Includes only producers with total sales of \$10,000 or more.

USDA, NASS, Hawaii Field Office

DENDROBIUM ORCHIDS: Sales and value, State of Hawaii, 2000-2004¹

Year	Individual blossoms		Cut sprays		Potted plants				Total value
	Number sold	Value	Number sold	Value	In bud/bloom		Community pots		
					Number sold	Value	Number sold	Value	
	<i>Million blossoms</i>	<i>1,000 dollars</i>	<i>1,000 dozens</i>	<i>1,000 dollars</i>	<i>1,000 pots</i>	<i>1,000 dollars</i>	<i>1,000 pots</i>	<i>----- 1,000 dollars -----</i>	
2000	19.9	615	340	2,335	941	5,590	124	938	9,478
2001	23.7	732	385	2,926	1,035	6,013	120	670	10,341
2002	29.3	908	462	3,218	1,229	6,624	125	694	11,444
2003	25.7	847	410	3,069	1,040	5,866	56	288	10,070
2004	21.2	593	454	3,194	1,228	6,656	15	92	10,535

¹ Includes only producers with total sales of \$10,000 or more.

DENDROBIUM ORCHIDS (POTTED IN BUD/BLOOM AND CUT SPRAYS): Number of farms and production area, State of Hawaii, 2000-2004¹

Year	Farms		Production area		
	Cut sprays	Potted in bud/bloom	Cut sprays	Potted in bud/bloom	Total
	----- <i>Number</i> -----		----- <i>1,000 square feet</i> -----		
2000	49	68	2,990	2,065	5,055
2001	49	70	2,700	2,295	4,995
2002	54	71	3,595	2,720	6,315
2003	50	69	3,005	2,205	5,210
2004	50	75	3,015	2,225	5,240

¹ Includes only producers with total sales of \$10,000 or more.

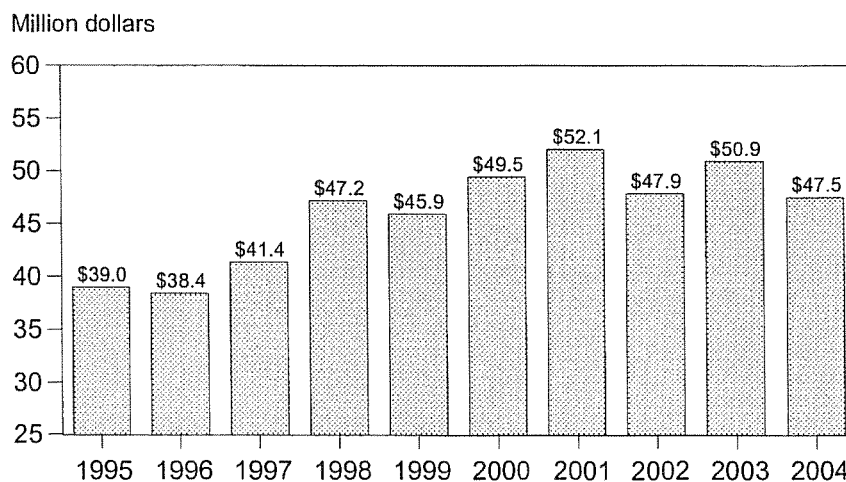
FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Out-of-State sales, State of Hawaii, 2000-2004¹

Commodity	2000	2001	2002	2003	2004
<i>1,000 dollars</i>					
Anthuriums, cut	10,600	8,800	7,700	8,500	6,475
Birds of Paradise	980	860	840	700	540
Cymbidiums	100	150	140	140	135
Dendrobiums, sprays	3,395	3,500	3,400	3,600	3,900
Oncidium	545	510	500	610	505
Foliage, cut:					
Ti leaves	670	710	680	840	750
Other cut greens	1,060	1,480	1,520	1,600	1,400
Foliage, potted	13,525	15,800	10,700	11,000	11,300
Ginger, red	1,010	560	600	645	810
Gingers, other	830	590	490	540	670
Heliconias	1,400	1,020	1,040	1,200	1,200
Potted orchids:					
Dendrobiums	3,850	4,900	4,510	4,590	4,600
Oncidium					2,730
Phalaenopsis	655	630	750	930	720
Other orchids	6,285	7,200	9,130	9,730	5,565
Proteas	1,930	1,560	1,620	1,800	1,715
Mixed assortment of cut flowers		1,260	1,240	1,730	1,100
All other flowers and nursery products	2,615	2,570	3,010	2,785	3,400
Total	49,450	52,100	47,870	50,940	47,515

¹ Based on F.O.B. island value. Includes both wholesale and retail sales. Does not include sales of cut flowers, leis, etc., purchased within the State and hand carried out.

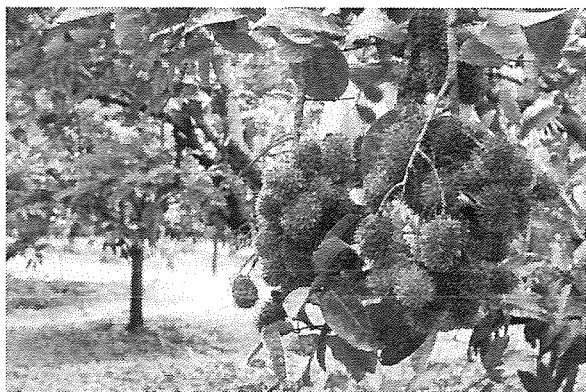
FLORICULTURE & NURSERY PRODUCTS: Out-of-State Sales, State of Hawaii, 1995-2004¹



¹ Includes wholesale and retail sales.

USDA, NASS, Hawaii Field Office

2004 FRUIT HIGHLIGHTS



Fruit growers statewide harvested 492.9 million pounds for fresh and processed utilization in 2004, down 27 percent from the previous year. Total fruit acreage fell 15 percent to 18,997 acres, mainly due to a decrease in pineapple acreage. Compared with 2003, harvests and values were smaller for all fruits except guava. Farm value for fruit grown in the State totaled \$104.7 million, down 18 percent from 2003. Farm values decreased for pineapple, papaya, banana, avocado, and other fruits category.

HAWAII

Farm sales from Hawaii County totaled \$18.7 million, down 6 percent from a year ago. Declining sales of papayas, bananas, citrus, and avocados contributed toward the decrease. Papaya sales made up 57 percent of the island's total with farm receipts of \$10.6 million. Banana output continued to be ranked second. Tropical specialty fruits was third.

HONOLULU

Fruit grown in Honolulu County totaled \$54.6 million in 2004 compared to \$74.8 million during the previous year and declining 27 percent. The decrease in value was mainly due to smaller papaya, banana, and pineapple harvests. Revenues from fruits, other than pineapple, accounted for 5 percent of the county's total. Honolulu County continues to lead the remaining counties in fruit value statewide.

KAUAI

Kauai County fruit sales for 2004 increased 15 percent from the previous year to \$2.0 million. Higher values were reported for all fruits except papayas. Guavas, tropical specialty fruits, bananas, and papayas accounted for virtually all the value. Avocados and citrus made up the remainder.

MAUI

The 2004 fruit value for Maui County, at \$29.5 million, decreased 8 percent from 2003. Most of the decline was due to a drop in pineapple. Pineapple accounted for 95 percent of the Maui County value. Bananas, papayas, tropical specialty fruits, and other fruits category made up the rest of the value.

MARKET SUPPLY: FRESH FRUITS

MARKET SUPPLY: Fresh market fruits, State of Hawaii, 2000-2004^{1 2}

Commodity		2000	2001	2002	2003	2004	Hawaii market share 2004
		----- 1,000 pounds -----					Percent
Apples:	Inshipments	14,915	13,622	11,802	13,499	13,484	
Avocados:	Inshipments	825	952	1,197	1,450	1,635	
	Hawaii	640	600	700	760	740	31
Bananas:	Inshipments	9,055	6,321	8,211	8,091	13,561	
	Hawaii	29,000	28,000	20,000	22,500	16,500	55
Cantaloupe melons:	Inshipments	8,877	9,641	8,349	8,267	7,051	
	Hawaii ³						
Grapefruit:	Inshipments	1,930	1,713	1,753	1,552	1,584	
Grapes:	Inshipments	8,546	7,145	8,543	7,435	8,196	
Honeydew melons:	Inshipments	4,448	2,698	2,334	2,220	2,458	
	Hawaii ³						
Lemons:	Inshipments	3,492	3,321	3,259	3,316	3,396	
Limes:	Inshipments	882	935	1,092	1,193	1,268	
	Hawaii ³						
Nectarines:	Inshipments	2,074	2,016	2,345	2,123	2,424	
Oranges:	Inshipments	12,109	11,017	12,683	13,342	13,105	
	Hawaii ³						
Papayas:	Inshipments				3	3	
	Hawaii ⁴	24,100	26,355	21,490	21,965	20,400	
Pears:	Inshipments	3,944	3,423	3,216	4,354	5,024	
Pineapples:	Hawaii	34,700	39,800	37,200	31,700	20,900	
Tangerines:	Inshipments	856	649	875	1,226	924	
	Hawaii ³						
Watermelons:	Inshipments	2,804	2,065	2,216	2,137	2,301	
	Hawaii	12,600	10,500	11,300	11,900	10,100	81
All other fruits:	Inshipments	10,639	11,463	12,429	13,941	13,106	
	Hawaii	5,416	6,056	9,907	7,513	4,924	27
Unspecified fruits:	Inshipments ⁵	13,000	8,366	11,248	11,759	10,561	
Total:	Inshipments	98,396	85,347	91,552	95,905	100,078	
	Hawaii	106,456	111,311	100,597	96,338	73,564	42
	All	204,852	196,658	192,149	192,243	173,642	

¹ Excludes pineapples, guavas, papayas, and passion fruit used for processing, and quantities shipped out-of-State.

² Inshipment data was provided by the Market Analysis and News Branch of the State Department of Agriculture.

³ Data not shown separately to avoid disclosure of individual operations but combined and included with "All other fruits".

⁴ Fresh intrastate sales only. Excludes mainland and foreign fresh sales.

⁵ Inshipment of "Unspecified fruits" were prorated based on the amount of known fruits imported into the State.

TROPICAL SPECIALTY FRUIT

TROPICAL SPECIALTY FRUIT: Number of farms, acreage, number of trees, production, price, and value, State of Hawaii, 2000-2004¹

Crop	Farms ²	Acreage		Number of trees		Utilized production ³	Farm price ^{3,4}	Value of sales
		In crop	Harvested	Total	Bearing			
	<i>Number</i>	<i>----- Acres -----</i>				<i>1,000 pounds</i>	<i>Dollars per pound</i>	<i>1,000 dollars</i>
Atemoya⁵								
2000								
2001								
2002								
2003								
2004	30	15	12	800	700	5	1.60	8
Longan								
2000	40	40	10	2,300	500	24	4.02	94
2001	35	90	30	4,700	1,500	37	3.05	111
2002	40	120	35	6,600	1,900	46	3.20	147
2003	65	145	75	7,300	3,300	114	3.33	380
2004	80	205	85	10,200	4,000	125	3.40	425
Lychee								
2000	90	300	50	15,200	3,700	⁶	⁶	⁶
2001	85	305	65	16,400	4,300	⁶	⁶	⁶
2002	90	330	95	15,500	5,000	77	2.64	203
2003	110	370	80	16,500	3,200	88	2.84	250
2004	160	270	110	11,000	4,400	94	2.45	230
Mango								
2000	105	250	100	12,000	5,500	207	.93	193
2001	70	255	185	11,100	8,200	242	.86	209
2002	80	260	200	10,700	7,100	377	.92	348
2003	85	260	200	10,700	7,400	481	.86	414
2004	140	275	200	11,300	7,500	380	.92	350
Persimmon⁵								
2000								
2001								
2002								
2003								
2004	25	20	15	1,200	900	45	1.60	72
Rambutan								
2000	70	225	85	9,800	5,000	220	2.98	656
2001	60	245	100	12,500	6,400	205	3.01	618
2002	55	270	145	13,200	6,800	257	3.01	773
2003	60	270	185	12,900	8,500	306	2.73	834
2004	80	295	175	14,000	8,100	275	2.57	707
Starfruit								
2000	30	20	15	1,800	1,700	107	.64	69
2001	40	20	15	2,000	1,900	69	1.06	73
2002	50	25	15	2,100	1,800	63	1.51	95
2003	50	30	7	2,700	800	24	1.58	38
2004⁶								

See footnotes at end of table.

Continued

TROPICAL SPECIALTY FRUIT

TROPICAL SPECIALTY FRUIT: Number of farms, acreage, number of trees, production, price, and value, State of Hawaii, 2000-2004¹ -- Continued

Crop	Farms ²	Acreage		Number of trees		Utilized production ³	Farm price ^{3,4}	Value of sales
		In crop	Harvested	Total	Bearing			
	<i>Number</i>	<i>----- Acres -----</i>				<i>1,000 pounds</i>	<i>Dollars per pound</i>	<i>1,000 dollars</i>
Other								
2000	--	125	50	6,700	3,400	169	--	309
2001	--	155	65	8,900	5,100	188	--	297
2002	--	165	70	10,900	4,800	142	--	194
2003	--	185	53	15,300	4,600	141	--	212
2004	--	180	53	9,600	1,000	273	--	327
Total								
2000	145	960	310	47,800	19,800	727	--	1,321
2001	145	1,070	460	55,600	27,400	741	--	1,308
2002	160	1,170	560	59,000	27,400	962	--	1,760
2003	170	1,260	600	65,400	27,800	1,154	--	2,128
2004	220	1,260	650	58,100	26,600	1,197	--	2,119

-- = Not applicable. ¹Tropical specialty fruits include: abiu, atemoya, breadfruit, caimito, canistel, cherimoya, durian, jaboticaba, jackfruit, langsat, longan, loquat, lychee, mango, mangosteen, persimmon, poha, rambutan, rollina, sapodilla, soursop, starfruit, white sapote, and other fruits. If not shown separately, then combined and included in "Other" category. ²A farm may grow more than one type of fruit. Total farms is an unduplicated count; excludes home use. ³Includes fresh and processed utilization when applicable. ⁴Beginning 2001, price shown reflects average prices received as sold by farmers (loose, packed, etc.), excluding any value added through processing. Prior to 2001, prices for fresh sales were adjusted to prepacked equivalent. ⁵Prior to 2004, included with "Other". ⁶Data not shown separately to avoid disclosure of individual operations but combined and included with "Other".

TROPICAL SPECIALTY FRUIT: Number of farms, acreage, production, and value, by counties, 2000-2004

Island	Farms	Acreage		Utilized production ¹	Value of sales
		In crop	Harvested		
	<i>Number</i>	<i>----- Acres -----</i>		<i>1,000 pounds</i>	<i>1,000 dollars</i>
State					
2000	145	960	310	727	1,321
2001	145	1,070	460	741	1,308
2002	160	1,170	560	962	1,760
2003	170	1,260	600	1,154	2,128
2004	220	1,260	650	1,197	2,119
Counties:					
Hawaii					
2000	85	405	135	329	651
2001	80	515	180	351	736
2002	90	585	250	417	1,008
2003	95	600	280	462	1,214
2004	120	630	290	446	1,191
Honolulu/Kauai/Maui²					
2000	60	555	175	398	670
2001	65	555	280	390	572
2002	70	585	310	545	752
2003	75	660	320	692	914
2004	100	630	360	751	928

¹ Includes fresh and processed utilization when applicable.

² Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

PINEAPPLES

PINEAPPLES: Number of farms, acreage, production, disposition, price, and value, State of Hawaii, 2000-2004 ¹

Year	Farms	Acreage used for crop	Production (fresh weight)	Disposition		Farm price		Value of production (fresh weight)
				Processed (fresh weight)	Fresh market	Processed ²	Fresh market ³	
	<i>Number</i>	<i>1,000 acres</i>		<i>1,000 tons</i>		<i>Dollars per ton</i>		<i>1,000 dollars</i>
2000	15	20.7	354	232	122	130	585	101,530
2001	15	20.1	323	213	110	129	626	96,337
2002	25	19.1	320	203	117	136	624	100,616
2003	25	16.0	300	170	130	135	604	101,470
2004	25	13.0	215	116	99	148	634	79,934

¹ Includes specialty pineapple.

² Estimate to reflect value of fresh fruit delivered processing plant door based on average contract prices of independent growers.

³ Estimate to reflect value at wholesale establishments for local sales and shipper dock for mainland and foreign sales.

PINEAPPLES: Fresh market sales, processed value, and total value, State of Hawaii, 2000-2004

Year	Fresh market sales		Processor value of canned fruit and juice production ³	Total value: Fresh market and processed ⁴
	Quantity ¹	Value ²		
	<i>1,000 tons</i>		<i>Million dollars</i>	
2000	122	71.4	60.8	132.2
2001	110	68.9	67.7	136.6
2002	117	73.0	71.0	144.0
2003	130	78.5	64.4	142.9
2004	99	65.9	57.3	123.2

¹ Market Analysis and News Branch of the State Department of Agriculture. Includes all destinations.

² Value FAS shipping point for outshipments, delivered wholesalers local sales.

³ Value of canned fruit and juices and by-product shipped out-of-State and sold within State.

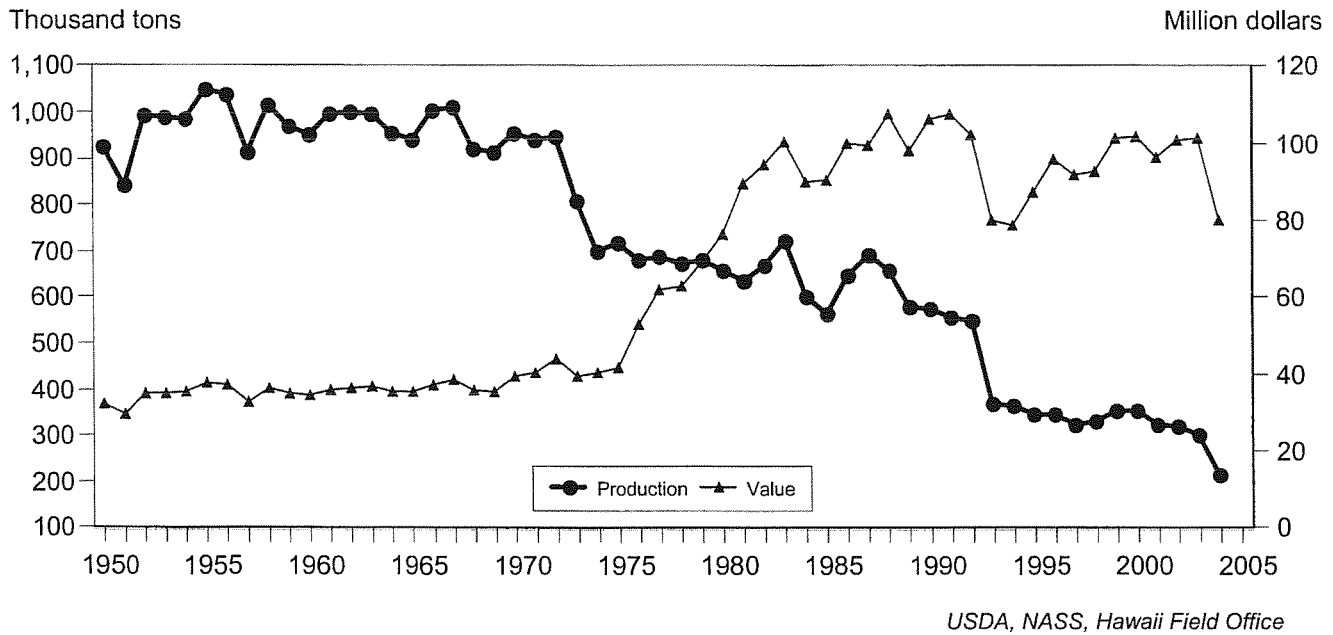
⁴ Pineapple Growers Association of Hawaii.

PINEAPPLES: Outshipments of fresh pineapples, State of Hawaii, 2000-2004

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	<i>1,000 pounds</i>												
2000	14,692	14,022	18,769	21,214	21,773	22,782	17,877	17,040	13,197	16,451	16,718	14,806	209,341
2001	13,864	13,519	16,254	16,276	19,480	17,541	18,073	14,212	9,901	12,671	12,307	16,058	180,156
2002	14,978	11,978	16,610	16,898	20,524	20,126	20,448	13,534	14,044	15,032	16,997	15,574	196,744
2003	13,692	13,142	20,374	19,963	21,637	20,434	24,650	22,079	15,024	15,477	22,131	19,712	228,315
2004	14,248	18,579	14,840	11,483	13,574	12,936	20,418	10,917	12,045	17,518	13,616	16,889	177,063

Source of outshipment data: Market Analysis and News Branch of the State Department of Agriculture.

PINEAPPLES: Production and Value, State of Hawaii, 1950-2004



AVOCADOS: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 2000-2004

Year	Farms	Acreage ¹		Yield per acre ²	Production	Farm price	Value of sales
		In crop	Bearing				
Number		Acres		1,000 pounds		Cents per pound	1,000 dollars
2000	130	360	220	2.9	640	58.0	371
2001	140	360	230	2.6	600	57.0	342
2002	140	370	250	2.8	700	56.0	392
2003	150	390	300	2.5	760	62.0	471
2004	150	380	270	2.7	740	63.0	466

¹ At end of year.

² Production divided by bearing acreage.

BANANAS

BANANAS: Number of farms, acreage, yield, production, price, and value, by counties, 2000-2004

Year	Farms	Acreage		Yield per acre ³	Utilized production	Farm price	Value of sales
		In crop ¹	Harvested ²				
	<i>Number</i>	<i>----- Acres -----</i>		<i>----- 1,000 pounds -----</i>		<i>Cents per pound</i>	<i>1,000 dollars</i>
State⁴							
2000	210	1,710	1,460	19.9	29,000	36.0	10,440
2001	200	1,660	1,490	18.8	28,000	38.0	10,640
2002	220	1,510	1,330	15.0	20,000	43.0	8,600
2003	230	1,560	1,350	16.7	22,500	41.0	9,225
2004⁵	210	1,360	1,000	16.5	16,500	49.0	8,085
Counties:							
Hawaii							
2000	45	815	665	21.4	14,200	34.5	4,927
2001	50	790	730	23.0	16,800	37.5	6,302
2002	55	825	740	20.7	15,300	42.0	6,431
2003 ⁵							
2004⁵							
Honolulu							
2000	80	760	685	19.7	13,500	35.5	4,826
2001	75	710	645	15.7	10,100	37.5	3,768
2002	75	500	450	7.6	3,400	44.0	1,502
2003 ⁵							
2004⁵							
Kauai							
2000	45	60	50	11.0	550	43.0	236
2001	45	75	55	9.5	520	45.5	237
2002	50	90	70	9.3	650	45.0	293
2003 ⁵							
2004⁵							
Maui							
2000	40	75	60	12.5	750	60.0	451
2001	30	85	60	9.7	580	57.5	333
2002	40	95	70	9.3	650	57.5	374
2003 ⁵							
2004⁵							

¹ Beginning 2003, total acreage reflects calendar (January-December) year. Prior years, total acreage measured as of February in the following year, i.e., acreage data for 2002 is as of February 1, 2003.

² Acreage is quarterly average during the year for 1999-2000.

³ Utilized production divided by acreage harvested.

⁴ Sum of county estimates may not add to State total due to rounding.

⁵ Data not available.

BANANAS: Production, acreage, and price, State of Hawaii, 2000-2004

Year	Fresh utilization ¹													Acreage	
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average	In crop	Harvested

----- 1,000 pounds -----

----- Acres -----

All Bananas

2000	2,148	2,221	2,583	2,371	2,442	2,620	2,553	2,350	2,638	2,465	2,603	2,006	29,000	1,710	1,460
2001	2,145	2,025	2,390	2,285	2,480	2,520	2,530	2,620	2,490	2,295	2,175	2,045	28,000	1,660	1,490
2002	1,480	1,355	1,500	1,450	1,525	1,855	1,780	2,065	1,745	1,770	1,685	1,790	20,000	1,510	1,330
2003	²	²	²	²	²	²	²	²	²	²	²	²	22,500	1,560	1,350
2004	²	²	²	²	²	²	²	²	²	²	²	²	16,500	1,360	1,000

Hawaii Apple ³

2000	410	438	496	479	407	447	440	445	454	458	518	508	5,500	735	550
2001	425	495	615	565	635	630	560	590	565	565	475	580	6,700	760	600
2002	520	475	520	475	510	510	555	485	485	495	465	505	6,000	770	630
2003	²														
2004	²														

Cavendish and Others ⁴

2000	1,738	1,783	2,087	1,892	2,035	2,173	2,113	1,905	2,184	2,007	2,085	1,498	23,500	975	910
2001	1,720	1,530	1,775	1,720	1,845	1,890	1,970	2,030	1,925	1,730	1,700	1,465	21,300	900	890
2002	960	880	980	975	1,015	1,345	1,225	1,580	1,260	1,275	1,220	1,285	14,000	740	700
2003	²														
2004	²														

Farm price for fresh market

Cents per pound

All Bananas ⁵

2000	36.0	38.5	37.5	39.0	37.5	34.5	33.0	32.0	33.0	36.5	36.5	38.0	36.0
2001	38.5	42.0	40.0	38.0	40.5	37.5	37.0	36.0	36.0	36.0	35.0	39.5	38.0
2002	43.0	45.0	45.0	44.5	46.0	42.5	41.5	39.0	41.5	43.5	43.5	42.5	43.0
2003	²	²	²	²	²	²	²	²	²	²	²	²	41.0
2004	²	²	²	²	²	²	²	²	²	²	²	²	49.0

Hawaii Apple ³

2000	46.5	46.5	46.0	47.5	47.0	47.0	47.0	47.5	47.5	47.0	46.5	47.5	47.0
2001	50.0	50.0	51.0	51.0	51.5	50.5	50.0	50.5	51.0	51.0	50.0	50.0	50.5
2002	49.5	50.5	49.5	49.0	50.5	51.0	51.0	50.5	51.5	51.5	51.5	49.5	50.5
2003	²												
2004	²												

Cavendish ⁶

2000	33.5	36.0	35.5	36.5	35.5	31.5	30.0	28.0	30.0	34.0	34.0	34.5	33.0
2001	36.0	39.0	36.0	34.0	36.5	33.5	33.0	32.0	31.5	31.5	30.5	35.5	34.0
2002	39.5	41.5	42.5	42.5	43.5	39.5	37.0	35.5	38.0	40.5	40.0	40.0	39.5
2003	²												
2004	²												

¹ Monthly production rounded to the nearest 5,000 pounds beginning 2001. ² Data not available. ³ Includes Dwarf Hawaii Apple and Apple bananas, formerly called Brazilian. ⁴ Includes Chinese, Williams, Valery, Grand Nain, Bluefields, Dwarf Bluefields, and other bananas. ⁵ Includes Bluefields, Dwarf Bluefields, and other bananas. ⁶ Includes Chinese, Williams, Valery, and Grand Nain.

PAPAYAS

PAPAYAS: Number of farms, acreage, yield, utilization, price, and value, by counties, 2000-2004

Year	Farms ¹	Acreage ¹		Yield per acre ²	Utilized produc- tion	Utilization		Price per pound			Value of utilized production
		In crop	Harvested			Fresh	Processed	Fresh	Processed ³	All	
<i>Number Acres 1,000 pounds Cents 1,000 dollars</i>											
State ⁴											
2000	236	2,845	1,650	33.0	54,500	50,250	4,250	31.6	3.0	29.4	16,007
2001	221	2,860	1,950	28.2	55,000	52,000	3,000	27.9	3.0	26.5	14,598
2002	164	2,320	1,720	26.7	45,900	42,700	3,200	27.7	3.0	26.0	11,924
2003	163	2,240	1,565	27.2	42,600	40,800	1,800	31.9	3.0	30.7	13,069
2004	207	2,105	1,235	29.0	35,800	34,100	1,700	36.1	3.0	34.5	12,361
Counties:											
Hawaii											
2000	174	2,005	1,130	33.8	38,200	33,950	⁵ 4,250	29.7		26.8	10,223
2001	158	2,385	1,635	26.5	43,290	40,290	⁵ 3,000	25.1		23.6	10,216
2002	122	2,050	1,540	25.4	39,080	35,880	⁵ 3,200	25.2		23.4	9,135
2003	124	2,000	1,420	26.4	37,535	35,735	⁵ 1,800	30.8		29.4	11,045
2004	141	1,910	1,080	29.3	31,695	29,995	⁵ 1,700	35.2		33.5	10,611
Honolulu											
2000	34	510	335	34.4	11,515	11,515	0	34.7		34.7	3,996
2001	29	330	225	41.9	9,425	9,425	0	38.3		38.3	3,613
2002	21	155	110	45.5	5,005	5,005	0	40.0		40.0	2,002
2003	17	120	80	45.0	3,600	3,600	0	39.8		39.8	1,433
2004	27	95	90	29.2	2,630	2,630	0	44.0		44.0	1,157
Kauai											
2000	23	275	160	24.7	3,945	3,945	⁵	⁶ 37.4		⁶ 37.4	⁶ 1,788
2001	24	105	70	24.2	1,695	1,695	⁵	⁶ 33.7		⁶ 33.7	⁶ 769
2002	13	70	50	22.2	1,110	1,110	⁵	⁶ 43.4		⁶ 43.4	⁶ 787
2003	15	55	35	18.3	640	640	⁵	⁶ 40.3		⁶ 40.3	⁶ 591
2004	19	40	30	18.0	540	540	⁵	⁶ 40.2		⁶ 40.2	⁶ 593
Maui											
2000	5	55	25	33.6	840	840	0	⁶		⁶	⁶
2001	10	40	20	29.5	590	590	0	⁶		⁶	⁶
2002	8	45	20	35.3	705	705	0	⁶		⁶	⁶
2003	7	65	30	27.5	825	825	0	⁶		⁶	⁶
2004	20	60	35	26.7	935	935	0	⁶		⁶	⁶

¹ Average of monthly estimates.

² Utilized production divided by acreage harvested.

³ Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

⁴ Sum of county estimates may not add to State total due to rounding.

⁵ Kauai combined with Hawaii to avoid disclosure of individual operations.

⁶ Maui combined with Kauai to avoid disclosure of individual operations.

PAPAYAS: Acreage, utilization, outshipments, and price, State of Hawaii, 2000-2004

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres ¹													
2000	1,635	1,675	1,655	1,655	1,670	1,585	1,330	1,610	1,725	1,690	1,695	1,875	1,650
2001	1,870	1,845	2,025	2,025	2,025	2,035	2,020	1,955	1,940	1,920	1,920	1,825	1,950
2002	1,830	1,925	1,930	1,935	1,935	1,725	1,680	1,610	1,500	1,500	1,490	1,580	1,720
2003	1,505	1,510	1,515	1,735	1,740	1,575	1,565	1,565	1,565	1,575	1,580	1,350	1,565
2004	1,340	1,345	1,160	1,160	1,160	1,055	1,060	1,050	1,370	1,365	1,360	1,400	1,235
Utilization (fresh and processed) - 1,000 pounds													
2000	3,310	3,575	4,655	5,185	5,325	5,245	5,375	4,445	3,510	4,290	4,585	5,000	54,500
2001	5,065	4,045	4,670	4,740	5,150	5,230	4,370	4,325	4,390	5,185	4,435	3,395	55,000
2002	3,445	3,450	3,540	3,320	3,615	3,620	4,245	4,655	3,705	4,165	4,285	3,855	45,900
2003	4,040	3,840	4,320	3,575	3,115	3,095	3,640	3,585	3,380	3,590	3,285	3,135	42,600
2004	3,690	2,870	2,930	2,725	2,670	3,135	2,915	2,715	2,845	3,425	2,850	3,030	35,800
Total fresh papaya utilization - 1,000 pounds													
2000	3,175	3,440	4,610	4,700	4,625	4,425	4,665	3,860	3,355	4,255	4,430	4,710	50,250
2001	4,930	4,040	4,600	4,380	4,530	4,745	3,985	4,190	4,105	4,940	4,330	3,225	52,000
2002	3,345	3,310	3,375	2,995	3,210	3,285	3,915	3,745	3,585	4,035	4,135	3,765	42,700
2003	3,935	3,735	4,215	3,485	3,040	3,030	3,425	3,240	3,025	3,450	3,105	3,115	40,800
2004	3,560	2,775	2,815	2,630	2,460	2,920	2,750	2,630	2,725	3,225	2,650	2,960	34,100
Intrastate fresh papaya utilization - 1,000 pounds													
2000	1,560	1,730	2,255	2,185	2,060	1,880	1,925	1,835	1,685	2,170	2,465	2,350	24,100
2001	2,890	2,120	2,425	1,955	1,870	2,320	1,845	2,125	2,215	2,325	2,345	1,920	26,355
2002	1,860	1,670	1,885	1,655	1,770	1,825	1,795	1,735	1,665	1,990	1,885	1,755	21,490
2003	1,765	1,745	1,990	1,965	1,725	1,655	1,915	1,910	1,495	2,040	1,895	1,865	21,965
2004	2,130	1,595	1,710	1,585	1,475	1,725	1,640	1,525	1,570	2,045	1,560	1,840	20,400
Outshipments of fresh papayas - 1,000 pounds													
2000	1,615	1,710	2,355	2,515	2,565	2,545	2,740	2,025	1,670	2,085	1,965	2,360	26,150
2001	2,040	1,920	2,175	2,425	2,660	2,425	2,140	2,065	1,890	2,615	1,985	1,305	25,645
2002	1,485	1,640	1,490	1,340	1,440	1,460	2,120	2,010	1,920	2,045	2,250	2,010	21,210
2003	2,170	1,990	2,225	1,520	1,315	1,375	1,510	1,330	1,530	1,410	1,210	1,250	18,835
2004	1,430	1,180	1,105	1,045	985	1,195	1,110	1,105	1,155	1,180	1,090	1,120	13,700
Farm price for fresh market sales (to all markets) - cents per pound													
2000	44.9	44.8	38.8	39.6	26.7	25.7	36.3	34.5	30.2	22.7	21.0	21.0	31.6
2001	23.8	26.9	30.0	31.7	28.3	28.5	30.0	27.7	27.3	26.0	26.5	28.9	27.9
2002	29.4	29.5	28.3	30.2	30.4	28.3	27.9	27.5	26.9	24.9	25.3	26.1	27.7
2003	30.7	32.6	32.8	34.1	33.8	35.0	31.8	30.1	31.1	31.6	29.6	30.8	31.9
2004	31.0	31.2	37.4	40.0	41.0	39.5	37.2	36.6	37.2	35.8	34.3	33.4	36.1

¹ Total is average of monthly data.

GUAVAS

GUAVAS: Number of farms, acreage, farm production, price, and value, by counties, 2000-2004

Year	Farm production					
	Farms	Acreage		Utilized Production	Farm price ²	Value of sales
		In crop ¹	Harvested			
	<i>Number</i>	<i>----- Acres -----</i>		<i>1,000 pounds</i>	<i>Cents per pound</i>	<i>1,000 dollars</i>
State						
2000	130	800	680	15,900	12.9	2,051
2001	110	710	610	15,300	14.1	2,157
2002	85	640	550	9,700	15.0	1,455
2003	75	610	530	6,700	13.8	925
2004	75	590	500	8,100	14.4	1,166
Counties:						
Hawaii						
2000	120	340	240	3	3	3
2001	100	260	170	3	3	3
2002	80	200	110	3	3	3
2003	65	160	85	3	3	3
2004	65	140	60			
Honolulu/Kauai/Maui⁴						
2000	10	460	440	3	3	3
2001	10	450	440	3	3	3
2002	5	440	440	3	3	3
2003	10	450	445	3	3	3
2004	10	450	440			

¹ Includes planting intentions for year 2000-2002.

² State average grower price. Equivalent F.O.B. plant, county of production.

³ Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

⁴ Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

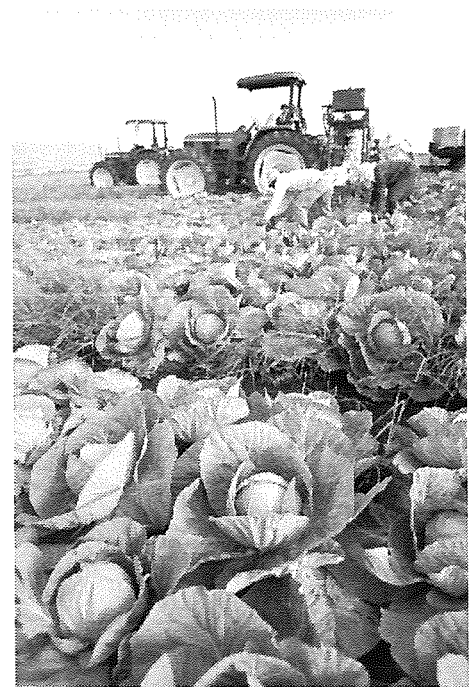
GUAVAS: Farm production, State of Hawaii, 2000-2004

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
<i>1,000 pounds</i>													
2000	963	905	1,011	494	855	681	805	862	1,085	3,092	3,065	2,082	15,900
2001	1,434	501	363	646	1,032	1,041	1,244	1,385	2,236	1,761	2,298	1,359	15,300
2002	693	507	425	525	514	1,016	497	228	832	1,868	1,820	775	9,700
2003	240	292	904	508	433	587	639	395	1,041	764	640	257	6,700
2004	211	310	359	398	405	271	477	1,457	1,985	1,111	550	566	8,100

2004 VEGETABLE, MELON, AND TARO HIGHLIGHTS

VEGETABLES AND MELONS

The farm value of Hawaii's vegetables and melons is estimated at a record high \$54.3 million in 2004, up 3 percent from the previous record high set in 2003. Higher farm prices enabled vegetable and melon growers to post the record revenues as overall production declined 11 percent. Hawaii tomato growers (field and greenhouse) led all vegetable farmers by posting a record high farm revenue of \$11.1 million in 2004, up 9 percent from 2003. A distant second were cucumbers with \$3.1 million in farm revenues for 2004, up 10 percent from 2003. Rounding out the top five were three crops that experienced decreased revenues during 2004: head cabbage (-3%), watermelons (-15%), and dry onions (-14%).



Production of all vegetables and melons totaled 87.2 million pounds in 2004, down 11 percent from 2003. Vegetable and melon production during 2004 was hampered by wet conditions at the start, and end, of the year. Hawaii's winter, or rainy period, extends from October to April and the National Weather Service reported that the 2003-2004 season was the wettest since 1996-1997. Heavy downpours during this period caused minor flooding and ponding in low lying areas. The wet, cloudy weather delayed plantings, hampered spraying, and generally slowed crop development. The summer of 2004, on the other hand, was relatively dry and beneficial for crops with most areas receiving below-normal rainfall. Conditions were especially dry in July with some areas receiving no rainfall during the month. The 2004-2005 rainy season started early when heavy showers pelted the windward areas of the northern half of the State in August. While many areas experienced normal to above normal rainfall during the closing months of the year, most of the rainfall was concentrated on Kauai and Oahu.

Tomatoes (field and greenhouse) remained the top volume crop for the sixth straight year with 16.8 million pounds in 2004, down 4 percent from 2003. Watermelons were second at 10.1 million pounds, down 15 percent from 2003 and the lowest total in 12 years. Head cabbage dropped from second to third in 2004 with 9.0 million pounds, down 29 percent from 2003 and the smallest harvest since 1963. Cucumbers stayed even at 5.9 million pounds while Chinese cabbage production decreased to a 32-year low of 5.3 million pounds in 2004.

TARO

Hawaii taro production is estimated at 5.2 million pounds for 2004, up 4 percent from 2003's record low of 5.0 million pounds. Taro for processing totaled 5.1 million pounds in 2004 up 6 percent from the previous year's record low. The bulk of all processed taro, and taro in general, is made into poi and yields across the State were hampered by adverse weather, disease, and apple snails. Taro sold for fresh use is estimated at 100,000 pounds in 2004, the lowest total since statistics were established in 1982. Chinese taro is the main source of fresh taro, and farmers in the major growing areas of Hawaii island reported sales were hampered by relatively low prices, dry weather, and pests. The overall farm price for taro remained unchanged for the third consecutive year at an average of 54.0 cents per pound in 2004. The farm value of taro sales is estimated at \$2.8 million in 2004, up 4 percent from 2003.

MARKET SUPPLY: FRESH VEGETABLES

MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 2000-2004 ¹

Commodity		2000	2001	2002	2003	2004	Hawaii market share 2004
		----- 1,000 pounds -----					Percent
Beans, snap:	Inshipments	591	285	515	432	536	
	Hawaii	1,200	1,100	900	1,000	900	63
Bittermelon:	Inshipments	53	31	38	51	65	
	Hawaii	300	250	200	220	250	79
Broccoli:	Inshipments	5,285	4,822	4,882	4,864	5,002	
	Hawaii	400	550	550	750	500	9
Burdock:	Inshipments	41	38	51	66	76	
	Hawaii	180	150	²	²		
Cabbage, Chinese:	Inshipments	281	178	234	789	1,593	
	Hawaii ³	6,200	6,000	5,700	5,500	⁴ 5,300	77
Cabbage, head:	Inshipments	899	1,151	341	1,907	3,975	
	Hawaii	14,600	12,500	13,000	12,600	9,000	69
Cabbage, mustard:	Inshipments	72	112	205	102	107	
	Hawaii	1,500	1,600	1,400	1,300	1,400	93
Carrots:	Inshipments	12,505	11,550	11,628	10,508	10,697	
	Hawaii ²						
Cauliflower:	Inshipments	1,337	1,171	1,152	1,032	1,058	
	Hawaii ²						
Celery:	Inshipments	5,259	4,961	4,830	4,576	4,832	
	Hawaii	1,100	1,150	1,100	1,200	900	16
Corn, sweet:	Inshipments	1,271	966	771	1,189	1,354	
	Hawaii	2,400	1,900	2,400	2,500	1,800	57
Cucumbers:	Inshipments	729	282	616	397	823	
	Hawaii	5,700	5,300	5,400	5,900	5,900	88
Daikon:	Inshipments	4	--	5	5	3	
	Hawaii ³	2,750	2,800	2,100	1,900	⁴ 1,700	100
Dasheen:	Inshipments	87	74	66	65	738	
	Hawaii ²						
Eggplant:	Inshipments	489	211	616	488	742	
	Hawaii	1,200	1,000	750	850	1,050	59
Ginger root:	Inshipments	155	6	5	223	437	
	Hawaii	13,500	18,000	14,400	6,000	6,000	93
Lettuce ⁵ :	Inshipments	13,728	11,366	9,336	8,577	8,362	
	Hawaii	1,300	1,200	1,200	1,200	1,300	13
Lotus root:	Inshipments	51	40	72	53	49	
	Hawaii ²						
Onions, dry:	Inshipments	16,460	17,752	17,611	18,019	18,093	
	Hawaii	4,300	5,400	2,100	3,300	1,600	8

See footnotes at end of table.

Continued

MARKET SUPPLY: FRESH VEGETABLES

MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 2000-2004¹ -- Continued

Commodity		2000	2001	2002	2003	2004	Hawaii market share 2004
		----- 1,000 pounds -----					Percent
Onions, green:	Inshipments	263	240	180	275	502	
	Hawaii	1,500	1,400	1,500	1,600	1,600	76
Parsley, American:	Inshipments	17	26	52	89	122	
	Hawaii	220	330	300	310	280	70
Peas, Chinese:	Inshipments	344	335	381	308	263	
	Hawaii ²						
Peppers, green:	Inshipments	1,948	1,910	1,912	2,049	2,305	
	Hawaii	2,800	3,100	3,200	3,300	3,200	58
Potatoes:	Inshipments ⁶	40,474	40,132	39,126	37,372	36,590	
	Hawaii ²						
Pumpkins:	Inshipments	1,426	393	121	96	666	
	Hawaii	170	400	400	850	250	27
Radish:	Inshipments	6	1	1	18	10	
	Hawaii	100	150	100	³ 18	³ 10	
Romaine:	Inshipments	6,337	6,412	7,492	7,410	8,430	
	Hawaii	2,000	2,000	1,800	1,900	1,500	15
Squash, Italian:	Inshipments	1,188	847	1,187	1,074	1,088	
	Hawaii	2,200	1,800	1,400	1,800	1,700	61
Squash, oriental:	Inshipments	4	2	35	24	74	
	Hawaii	600	500	250	200	650	90
Sweetpotatoes:	Inshipments	1,366	1,551	1,303	1,202	1,274	
	Hawaii	2,500	1,800	2,300	2,100	4,600	78
Taro:	Inshipments	1,293	1,200	749	1,786	2,957	
	Hawaii ³	200	200	300	200	100	3
Tomatoes:	Inshipments	3,340	2,995	3,290	2,035	3,889	
	Hawaii	16,500	17,500	17,500	17,500	16,800	81
Watercress:	Inshipments	10	51	184	223	231	
	Hawaii	970	860	800	650	850	79
All other vegetables:	Inshipments	20,937	16,329	16,459	18,281	18,682	
	Hawaii	10,980	11,470	13,850	14,790	14,620	44
Unspecified vegetables:	Inshipments ⁷	21,000	14,000	17,569	16,893	15,881	
Total:	Inshipments	159,250	141,420	143,015	142,478	151,506	
	Hawaii	97,370	100,410	94,900	89,420	83,750	36
	All	256,620	241,830	237,915	231,898	235,256	

-- = Negligible.

¹ Inshipment data was provided by the Market Analysis and News Branch of the State Department of Agriculture.

² Data not shown separately to avoid disclosure of individual operations but combined and included with "All other vegetables".

³ Fresh market only.

⁴ Beginning 2004, includes fresh market and processing.

⁵ Processed lettuce, both local production and inshipments, are included in "All other vegetables".

⁶ For processing and fresh market.

⁷ Inshipment of "Unspecified vegetables" were prorated based on the amount of known vegetables imported into the State.

SNAP BEANS

SNAP BEANS: Acreage, yield, production, price, and value, by counties, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State¹					
2000	210	5.7	1,200	91.0	1,092
2001	210	5.2	1,100	97.0	1,067
2002	180	5.0	900	97.0	873
2003	200	5.0	1,000	96.0	960
2004	170	5.3	900	114.0	1,026
Counties:					
Hawaii/Kauai²					
2000	75	4.7	350	94.4	330
2001	75	3.2	240	91.1	219
2002	50	3.0	150	98.0	147
2003	40	3.8	150	94.0	141
2004	30	4.7	140	143.0	200
Honolulu					
2000	65	4.6	300	98.0	294
2001	80	4.5	360	104.3	375
2002	75	3.9	290	107.5	312
2003	95	3.2	300	108.0	324
2004	95	5.6	530	115.0	610
Maui					
2000	70	7.9	550	85.0	468
2001	55	9.1	500	94.6	473
2002	55	8.4	460	90.0	414
2003	65	8.5	550	90.0	495
2004	45	5.1	230	94.0	216

¹ Sum of county estimates may not add to State total due to rounding.

² Kauai combined with Hawaii to avoid disclosure of individual operations.

SNAP BEANS: Acreage, production, and price, State of Hawaii, 2000-2004

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres¹													
2000	17	26	22	25	20	19	15	13	15	18	14	17	210
2001	14	18	17	25	18	19	15	19	15	16	19	15	210
2002	16	17	15	15	14	18	12	15	19	14	17	17	180
2003	19	18	15	16	17	16	15	15	17	15	19	18	200
2004	19	21	14	21	13	11	17	16	11	16	19	11	170
Production - 1,000 pounds													
2000	107	104	111	105	117	110	106	101	87	83	80	89	1,200
2001	97	73	97	131	101	82	103	109	83	70	79	75	1,100
2002	60	55	76	94	70	105	55	86	75	74	71	79	900
2003	75	78	72	112	106	75	84	74	79	70	93	82	1,000
2004	68	62	41	80	66	84	117	70	100	63	73	76	900
Farm price - cents per pound													
2000	162.3	90.5	72.1	80.1	73.1	71.1	72.1	78.0	89.4	98.7	111.5	103.9	91.0
2001	104.8	108.2	100.5	83.3	74.4	87.1	94.7	99.7	102.9	102.7	104.7	116.1	97.0
2002	106.4	106.1	101.9	90.2	90.0	91.9	83.5	94.3	104.5	99.1	102.1	98.3	97.0
2003	98.0	102.1	105.4	101.1	86.4	81.7	91.0	96.7	92.8	91.6	99.8	105.5	96.0
2004	117.2	118.3	117.6	111.6	106.9	92.1	100.1	109.8	134.2	120.5	122.8	123.2	114.0

¹ Sum of monthly data exceeds total because harvest period longer than 1 month.

CHINESE CABBAGE

CHINESE CABBAGE: Acreage, yield, production, price, and value, by counties, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2000	320	22.5	7,200	21.0	1,512
2001	320	21.9	7,000	23.0	1,610
2002	340	20.0	6,800	24.0	1,632
2003	310	21.6	6,700	23.0	1,541
2004	260	20.4	5,300	31.0	1,643
Counties:					
Hawaii					
2000	225	22.2	5,000	20.7	1,035
2001	210	23.8	5,000	22.8	1,140
2002	200	24.0	4,800	23.0	1,104
2003	200	24.5	4,900	23.1	1,132
2004	190	23.4	4,450	30.2	1,344
Honolulu/Kauai/Maui ²					
2000	95	23.2	2,200	21.7	477
2001	110	18.2	2,000	23.5	470
2002	140	14.3	2,000	26.4	528
2003	110	16.4	1,800	22.7	409
2004	70	12.1	850	35.2	299

¹ Sum of county estimates may not add to State total due to rounding.

² Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

CHINESE CABBAGE: Acreage, production, and price, State of Hawaii, 2000-2004

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2000	27	28	28	26	25	28	24	26	26	28	25	29	320
2001	23	24	25	25	28	26	25	19	28	31	35	31	320
2002	26	26	31	28	36	28	31	27	27	26	27	27	340
2003	28	33	32	28	26	26	25	22	23	19	20	28	310
2004	18	24	20	25	21	20	19	24	23	23	21	22	260
Processing and fresh market:													
Production - 1,000 pounds													
2000	760	608	640	644	630	544	533	590	653	574	454	570	7,200
2001	605	533	765	650	741	556	541	446	418	557	609	579	7,000
2002	614	611	651	579	494	504	545	564	446	576	604	612	6,800
2003	655	601	596	679	579	568	599	541	481	436	469	496	6,700
2004	440	428	465	432	492	431	481	388	367	496	406	474	5,300
Farm price - cents per pound													
2000	20.7	15.8	14.6	14.8	17.5	22.2	28.4	24.4	23.8	21.4	25.0	27.1	21.0
2001	29.6	25.2	22.5	18.5	17.5	19.0	17.5	23.5	30.3	28.4	25.4	22.9	23.0
2002	23.8	19.7	17.7	17.9	18.5	23.7	26.8	26.9	30.0	29.7	29.8	25.3	24.0
2003	21.8	19.4	18.5	17.7	19.0	18.5	22.8	27.9	29.6	29.3	28.2	29.6	23.0
2004	31.9	30.7	29.3	30.1	27.3	29.9	27.4	30.4	33.4	34.8	34.1	33.8	31.0

HEAD CABBAGE

HEAD CABBAGE: Acreage, yield, production, price, and value, by counties, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2000	540	27.0	14,600	19.0	2,774
2001	500	25.0	12,500	22.0	2,750
2002	540	24.1	13,000	21.0	2,730
2003	500	25.2	12,600	22.0	2,772
2004	360	25.0	9,000	30.0	2,700
Counties:					
Hawaii/Honolulu/Kauai ²					
2000	350	26.6	9,300	19.4	1,804
2001	330	23.8	7,850	23.0	1,806
2002	370	23.5	8,700	21.2	1,844
2003	335	23.9	8,000	21.6	1,728
2004	185	22.7	4,200	29.1	1,222
Maui					
2000	190	27.9	5,300	18.3	970
2001	170	27.4	4,650	20.3	944
2002	170	25.3	4,300	20.6	886
2003	165	27.9	4,600	22.7	1,044
2004	175	27.4	4,800	30.8	1,478

¹ Sum of county estimates may not add to State total due to rounding.

² Honolulu and Kauai combined with Hawaii to avoid disclosure of individual operations.

HEAD CABBAGE: Acreage, production, and price, State of Hawaii, 2000-2004

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2000	51	44	50	44	41	48	41	42	46	46	40	47	540
2001	49	44	46	41	46	43	48	42	42	31	31	37	500
2002	45	47	51	46	48	48	47	44	42	40	40	42	540
2003	48	46	45	38	46	49	44	38	41	30	39	36	500
2004	22	22	28	36	39	32	26	25	27	26	40	37	360
Production - 1,000 pounds													
2000	1,258	1,227	1,401	1,287	1,263	1,326	1,236	1,250	978	1,231	1,169	924	14,600
2001	1,005	925	1,234	980	1,103	1,165	1,164	1,179	1,085	1,094	668	898	12,500
2002	1,036	1,010	1,134	944	1,070	1,205	1,106	1,188	1,138	1,055	948	1,166	13,000
2003	1,294	1,320	1,449	1,128	1,120	1,042	1,125	880	853	666	935	788	12,600
2004	595	556	589	970	973	1,008	871	595	591	633	741	878	9,000
Farm price - cents per pound													
2000	19.6	17.7	14.9	15.2	15.8	18.2	18.4	19.0	20.2	23.1	22.5	26.4	19.0
2001	25.8	26.3	26.8	23.4	20.9	16.6	16.5	18.1	20.8	22.1	25.6	24.3	22.0
2002	27.5	25.3	24.7	20.5	19.2	18.1	16.7	17.2	17.8	19.7	24.2	22.3	21.0
2003	22.4	20.9	19.7	19.0	18.5	19.3	18.3	20.2	24.7	27.9	28.3	31.8	22.0
2004	38.3	34.4	29.8	27.1	27.3	26.4	25.8	28.7	32.3	34.0	32.2	30.6	30.0

CELERY: Acreage, yield, production, price, and value, by counties, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State¹					
2000	50	22.0	1,100	31.0	341
2001	50	23.0	1,150	32.0	368
2002	50	22.0	1,100	33.0	363
2003	45	26.7	1,200	32.0	384
2004	30	30.0	900	34.0	306
Counties:					
Hawaii					
2000	25	30.0	750	32.4	243
2001	25	26.0	650	33.2	216
2002	25	24.0	600	35.0	210
2003	25	28.0	700	34.8	244
2004	20	30.0	600	36.2	217
Maui					
2000	25	14.0	350	28.0	98
2001	25	20.0	500	30.4	152
2002	25	20.0	500	30.5	153
2003	20	25.0	500	28.0	140
2004	10	30.0	300	29.6	89

¹ Sum of county estimates may not add to State total due to rounding.

SWEET CORN

SWEET CORN: Acreage, yield, production, price, and value, by counties, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State¹					
2000	440	5.5	2,400	55.0	1,320
2001	440	4.3	1,900	64.0	1,216
2002	610	3.9	2,400	54.0	1,296
2003	830	3.0	2,500	51.0	1,275
2004	540	3.3	1,800	58.0	1,044
Counties:					
Hawaii/Kauai²					
2000	155	6.6	1,020	43.3	442
2001	170	5.0	850	59.4	505
2002	270	4.1	1,100	46.6	513
2003	320	3.6	1,150	42.0	483
2004	260	2.6	670	44.5	298
Honolulu/Maui³					
2000	285	4.8	1,380	63.6	878
2001	270	3.9	1,050	67.7	711
2002	340	3.8	1,300	60.2	783
2003	510	2.6	1,350	58.7	792
2004	280	4.0	1,130	66.0	746

¹ Sum of county estimates may not add to State total due to rounding.

² Kauai combined with Hawaii to avoid disclosure of individual operations.

³ Maui combined with Honolulu to avoid disclosure of individual operations.

SWEET CORN: Acreage, production, and price, State of Hawaii, 2000-2004

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2000	31	20	28	38	41	41	39	49	38	43	42	30	440
2001	35	17	26	33	46	40	39	45	35	40	46	38	440
2002	33	29	45	47	62	55	49	49	52	46	70	73	610
2003	56	70	83	77	77	91	81	66	74	56	68	31	830
2004	42	43	52	51	61	45	45	43	37	32	49	40	540
Production - 1,000 pounds													
2000	176	134	144	172	232	241	274	265	222	240	175	125	2,400
2001	98	46	120	163	217	220	197	241	122	107	184	185	1,900
2002	133	90	140	169	190	269	210	215	167	177	340	300	2,400
2003	156	132	170	276	302	227	289	210	183	203	205	147	2,500
2004	110	97	112	155	203	179	161	139	146	120	199	179	1,800
Farm price - cents per pound													
2000	50.2	60.2	78.3	56.5	57.3	54.6	41.3	49.0	64.6	64.8	55.0	55.0	55.0
2001	67.9	73.9	65.8	58.3	76.7	62.3	60.0	60.7	60.4	59.3	62.9	65.4	64.0
2002	62.7	66.0	58.4	58.0	49.4	46.3	48.6	57.5	64.5	52.0	41.7	62.3	54.0
2003	59.7	48.7	39.2	57.2	41.2	50.7	45.6	49.9	50.8	60.7	59.5	53.2	51.0
2004	48.9	47.4	52.2	53.5	45.5	56.1	56.4	60.6	79.4	69.4	64.7	59.8	58.0

CUCUMBERS: Acreage, yield, production, price, and value, by counties, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State¹					
2000	400	14.3	5,700	44.0	2,508
2001	370	14.3	5,300	44.0	2,332
2002	390	13.8	5,400	46.0	2,484
2003	410	14.4	5,900	48.0	2,832
2004	400	14.8	5,900	53.0	3,127
Counties:					
Hawaii/Kauai²					
2000	40	17.5	700	42.2	295
2001	30	19.0	570	46.1	263
2002	30	21.3	640	45.2	289
2003	30	20.0	600	58.7	352
2004	20	17.5	350	56.8	199
Honolulu					
2000	200	12.5	2,500	49.0	1,225
2001	185	12.1	2,240	44.7	1,001
2002	180	12.2	2,200	50.7	1,115
2003	200	12.3	2,450	52.0	1,274
2004	195	11.5	2,250	55.0	1,238
Maui					
2000	160	15.6	2,500	39.5	988
2001	155	16.1	2,490	42.9	1,068
2002	180	14.2	2,560	42.2	1,080
2003	180	15.8	2,850	42.3	1,206
2004	185	17.8	3,300	51.2	1,690

¹ Sum of county estimates may not add to State total due to rounding.² Kauai combined with Hawaii to avoid disclosure of individual operations.**CUCUMBERS: Acreage, production, and price, State of Hawaii, 2000-2004**

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres¹													
2000	35	34	34	35	35	31	31	32	32	33	36	36	400
2001	33	31	33	31	25	32	31	31	29	32	32	30	370
2002	35	36	35	33	33	33	34	34	35	36	36	33	390
2003	32	32	34	33	36	34	35	36	33	35	36	34	410
2004	34	32	31	31	31	33	32	32	35	35	37	37	400
Production - 1,000 pounds													
2000	470	464	530	553	536	504	488	408	413	476	391	467	5,700
2001	436	447	503	510	460	498	488	447	366	455	366	324	5,300
2002	348	359	434	457	447	558	499	507	437	395	456	503	5,400
2003	406	381	380	414	624	670	656	596	395	483	496	399	5,900
2004	348	291	396	405	538	701	656	659	552	525	407	422	5,900
Farm price - cents per pound													
2000	52.1	51.3	42.5	51.1	39.7	35.2	33.9	38.2	45.1	44.7	47.9	46.9	44.0
2001	43.7	46.7	46.2	43.6	40.0	41.0	42.6	42.4	44.2	44.5	43.4	52.6	44.0
2002	58.3	57.4	54.8	43.3	41.2	35.3	36.7	44.1	47.0	42.7	50.2	49.6	46.0
2003	49.7	55.7	47.5	49.2	42.7	43.0	43.2	43.6	50.6	51.5	54.6	54.0	48.0
2004	56.3	60.9	64.0	55.7	44.9	44.1	44.4	49.1	54.9	58.2	62.0	58.5	53.0

¹ Sum of monthly data exceeds total because harvest period longer than 1 month.

DAIKON

DAIKON: Acreage, yield, production, price, and value, by counties, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2000	350	8.9	3,100	28.0	868
2001	330	9.7	3,200	28.0	896
2002	250	10.0	2,500	30.0	750
2003	220	10.5	2,300	31.0	713
2004	200	8.5	1,700	32.0	544
Counties:					
Hawaii					
2000	250	8.4	2,100	26.5	557
2001	230	9.6	2,200	26.3	579
2002	185	9.5	1,750	28.0	490
2003	165	11.5	1,900	30.0	570
2004	170	7.6	1,300	30.0	390
Honolulu/Kauai/Maui ²					
2000	100	10.0	1,000	31.1	311
2001	100	10.0	1,000	31.7	317
2002	65	11.5	750	34.6	260
2003	55	7.3	400	35.8	143
2004	30	13.3	400	38.5	154

¹ Sum of county estimates may not add to State total due to rounding.

² Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

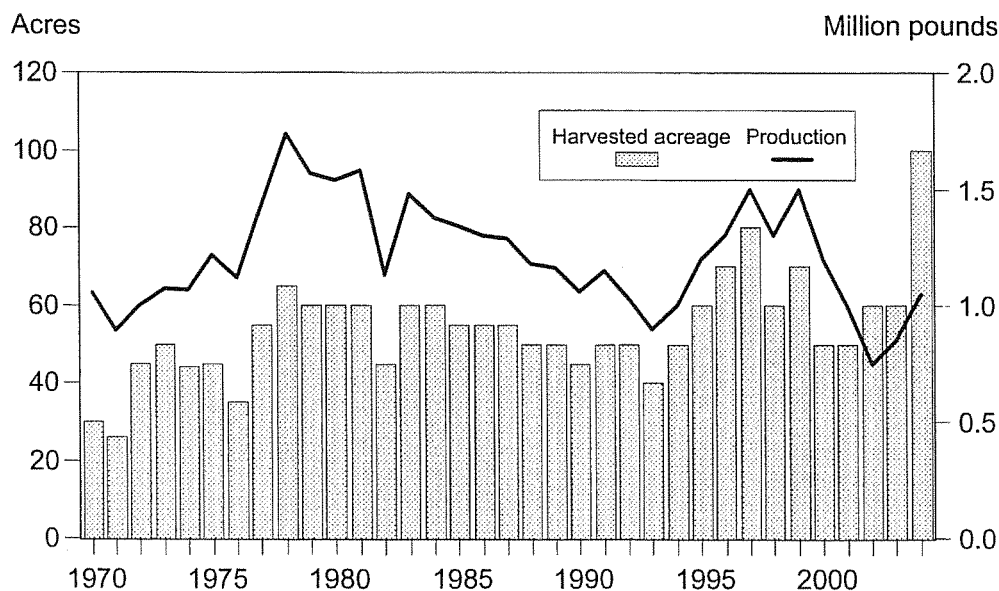
EGGPLANT: Acreage, yield, production, price, and value, by counties, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2000	50	24.0	1,200	70.0	840
2001	50	20.0	1,000	66.0	660
2002	60	12.5	750	73.0	548
2003	60	14.2	850	74.0	629
2004	100	10.5	1,050	77.0	809
Counties:					
Hawaii/Kauai/Maui ²					
2000	10	23.0	230	63.9	147
2001	15	16.0	240	85.0	204
2002	10	11.0	110	90.9	100
2003	20	12.5	250	81.2	203
2004	15	12.7	190	100.0	190
Honolulu					
2000	40	24.3	970	71.4	693
2001	35	21.7	760	60.0	456
2002	50	12.8	640	70.0	448
2003	40	15.0	600	71.0	426
2004	85	10.1	860	72.0	619

¹ Sum of county estimates may not add to State total due to rounding.

² Kauai and Maui combined with Hawaii to avoid disclosure of individual operations.

EGGPLANT: Acreage and Production, State of Hawaii, 1970-2004



USDA, NASS, Hawaii Field Office

LETTUCES

LETTUCES (HEAD, SEMI-HEAD): Acreage, yield, production, price, and value, by counties, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2000	150	8.7	1,300	50.0	650
2001	140	8.6	1,200	50.0	600
2002	120	10.0	1,200	57.0	684
2003	120	10.0	1,200	58.0	696
2004	110	11.8	1,300	61.0	793
Counties:					
Hawaii					
2000	95	9.7	920	44.0	405
2001	85	10.5	890	43.0	383
2002	75	10.9	820	50.0	410
2003	70	12.1	850	51.6	439
2004	60	12.7	760	54.0	410
Honolulu/Kauai/Maui ²					
2000	55	6.9	380	64.6	245
2001	55	5.6	310	70.1	217
2002	45	8.4	380	72.0	274
2003	50	7.0	350	73.4	257
2004	50	10.8	540	70.9	383

¹ Sum of county estimates may not add to State total due to rounding.

² Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

LETTUCES (HEAD, SEMI-HEAD): Acreage, production, and price, State of Hawaii, 2000-2004

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2000	14	13	15	10	14	12	13	12	12	11	12	12	150
2001	14	13	14	13	12	12	11	9	11	10	10	11	140
2002	11	12	11	10	11	10	10	11	8	8	9	9	120
2003	10	10	12	11	10	9	10	10	9	9	10	10	120
2004	8	11	7	8	9	9	10	10	9	9	10	10	110
Production - 1,000 pounds													
2000	107	114	126	112	122	125	115	111	99	91	87	91	1,300
2001	97	101	127	115	114	100	94	103	93	97	92	67	1,200
2002	94	83	123	124	112	104	96	106	96	91	79	92	1,200
2003	95	90	110	114	107	97	110	96	98	99	94	90	1,200
2004	73	83	94	93	117	134	129	125	109	131	107	105	1,300
Farm price - cents per pound													
2000	76.9	48.0	47.2	47.2	47.3	46.8	46.1	47.5	48.1	47.2	48.3	51.1	50.0
2001	50.0	49.9	49.4	49.4	47.2	48.7	50.3	50.1	52.1	50.8	51.2	53.2	50.0
2002	57.2	50.7	55.0	61.8	59.9	61.4	55.0	54.3	54.5	56.0	57.6	58.5	57.0
2003	57.9	58.3	58.7	59.1	55.5	56.3	55.4	57.3	59.2	55.8	57.5	65.3	58.0
2004	60.8	62.1	57.9	59.9	61.1	60.2	59.9	60.8	62.2	61.1	60.9	65.6	61.0

DRY ONIONS

DRY ONIONS: Acreage, yield, production, price, and value, by counties, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2000	340	12.6	4,300	71.0	3,053
2001	300	18.0	5,400	75.0	4,050
2002	200	10.5	2,100	96.0	2,016
2003	330	10.0	3,300	84.0	2,772
2004	180	8.9	1,600	149.0	2,384
Counties:					
Hawaii/Honolulu/Kauai ²					
2000	150	10.7	1,600	61.7	987
2001	150	21.7	3,250	63.3	2,057
2002	70	10.9	760	73.0	555
2003	185	6.4	1,175	58.9	692
2004	55	8.2	450	86.4	389
Maui					
2000	190	14.2	2,700	76.5	2,066
2001	150	14.3	2,150	92.7	1,993
2002	130	10.3	1,340	109.0	1,461
2003	145	14.7	2,125	97.9	2,080
2004	125	9.2	1,150	173.5	1,995

¹ Sum of county estimates may not add to State total due to rounding.

² Honolulu and Kauai combined with Hawaii to avoid disclosure of individual operations.

DRY ONIONS: Acreage, production, and price, State of Hawaii, 2000-2004

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2000	5	9	56	59	28	32	25	21	43	35	17	10	340
2001	10	33	28	29	29	30	16	20	21	25	15	44	300
2002	10	16	19	20	20	19	22	10	10	15	23	16	200
2003	26	16	62	56	34	35	17	18	12	12	34	8	330
2004	13	11	9	21	14	15	10	15	12	15	26	19	180
Production - 1,000 pounds													
2000	61	97	880	771	422	667	337	296	241	241	166	121	4,300
2001	108	165	927	1,355	568	848	418	289	263	135	188	136	5,400
2002	53	101	179	150	157	167	202	137	137	188	408	221	2,100
2003	191	121	327	470	381	570	480	173	171	136	200	80	3,300
2004	89	52	52	135	142	134	117	142	167	167	228	175	1,600
Farm price - cents per pound													
2000	105.7	126.9	89.7	64.6	51.7	56.6	57.3	64.4	56.7	71.8	94.6	108.5	71.0
2001	113.5	93.1	73.9	68.0	81.5	58.1	55.4	73.0	98.9	113.3	109.0	110.9	75.0
2002	109.8	85.3	81.7	93.5	75.3	72.2	80.2	103.0	105.1	107.1	111.2	110.4	96.0
2003	95.0	108.4	100.5	102.7	78.6	56.2	61.0	80.3	95.1	103.7	94.9	129.6	84.0
2004	137.1	152.9	117.9	126.0	183.8	117.5	174.8	161.5	172.9	168.5	128.8	134.3	149.0

GREEN ONIONS

GREEN ONIONS: Acreage, yield, production, price, and value, by counties, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2000	150	10.0	1,500	86.0	1,290
2001	120	11.7	1,400	89.0	1,246
2002	125	12.0	1,500	89.0	1,335
2003	130	12.3	1,600	90.0	1,440
2004	130	12.3	1,600	97.0	1,552
Counties:					
Hawaii/Kauai/Maui ²					
2000	25	8.0	200	99.0	198
2001	20	10.0	200	89.0	178
2002	30	6.7	200	105.2	210
2003	20	10.0	200	103.8	208
2004	15	13.3	200	104.1	208
Honolulu					
2000	125	10.4	1,300	84.0	1,092
2001	100	12.0	1,200	89.0	1,068
2002	95	13.7	1,300	86.5	1,125
2003	110	12.7	1,400	88.0	1,232
2004	115	12.2	1,400	96.0	1,344

¹ Sum of county estimates may not add to State total due to rounding.

² Kauai and Maui combined with Hawaii to avoid disclosure of individual operations.

GREEN ONIONS: Acreage, production, and price, State of Hawaii, 2000-2004

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2000	14	14	13	12	12	13	12	12	11	12	12	13	150
2001	10	10	8	10	10	10	11	11	9	10	10	11	120
2002	9	9	10	10	11	12	11	11	12	10	10	10	125
2003	10	11	13	10	11	11	10	11	10	11	11	11	130
2004	11	9	8	10	12	11	11	12	11	10	12	13	130
Production - 1,000 pounds													
2000	118	122	123	109	126	140	129	128	114	123	127	141	1,500
2001	127	123	119	144	135	121	121	123	102	96	88	101	1,400
2002	114	90	111	121	109	121	145	142	133	125	134	155	1,500
2003	133	134	132	138	140	148	136	151	138	122	108	120	1,600
2004	111	95	102	140	147	138	154	156	147	145	130	135	1,600
Farm price - cents per pound													
2000	92.7	92.8	87.8	90.1	86.3	83.4	81.4	82.1	83.2	82.6	82.2	88.3	86.0
2001	89.7	90.3	88.0	88.6	84.3	85.6	86.6	88.5	89.3	91.5	92.0	97.3	89.0
2002	98.0	91.5	94.7	92.9	89.4	88.1	82.7	85.5	89.8	86.8	87.6	85.5	89.0
2003	87.1	88.7	89.1	90.0	88.6	91.5	88.2	88.5	88.9	85.5	94.5	100.8	90.0
2004	103.8	115.8	115.1	103.3	88.0	86.5	83.4	93.3	89.7	96.2	104.5	99.9	97.0

GREEN PEPPERS: Acreage, yield, production, price, and value, State of Hawaii, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
2000	200	14.0	2,800	55.0	1,540
2001	210	14.8	3,100	60.0	1,860
2002	215	14.9	3,200	59.0	1,888
2003	220	15.0	3,300	61.0	2,013
2004	240	13.3	3,200	69.0	2,208

GREEN PEPPERS: Acreage, production, and price, State of Hawaii, 2000-2004

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres¹													
2000	24	20	20	20	19	19	17	18	16	17	16	16	200
2001	17	17	17	18	18	18	19	18	17	17	17	17	210
2002	17	17	17	18	18	18	18	18	18	17	19	20	215
2003	17	17	18	17	17	18	19	19	20	20	19	19	220
2004	20	19	19	20	20	20	19	20	20	20	22	21	240
Production - 1,000 pounds													
2000	246	238	259	285	212	216	218	222	202	212	214	276	2,800
2001	265	267	254	240	261	259	274	272	251	250	248	259	3,100
2002	264	262	283	271	271	264	266	277	271	256	267	248	3,200
2003	248	267	270	269	279	280	306	278	278	274	270	281	3,300
2004	295	274	221	258	281	280	282	284	279	330	218	198	3,200
Farm price - cents per pound													
2000	59.1	58.4	55.9	66.4	54.4	52.6	51.2	51.0	45.6	51.1	51.7	56.6	55.0
2001	61.5	67.2	75.4	64.8	63.4	54.9	54.2	55.9	53.8	54.2	58.2	57.2	60.0
2002	62.9	57.4	64.5	62.9	62.3	60.8	56.1	53.1	55.1	55.2	57.9	60.1	59.0
2003	60.9	61.3	63.5	62.9	64.2	61.9	63.8	58.2	55.8	57.2	57.9	64.2	61.0
2004	71.7	76.5	78.1	78.7	71.6	64.2	60.1	57.1	57.2	66.6	74.4	78.8	69.0

¹ Sum of monthly data exceeds total because harvest period longer than 1 month.

ROMAINE

ROMAINE: Acreage, yield, production, price, and value, by counties, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2000	190	10.5	2,000	43.0	860
2001	190	10.5	2,000	45.0	900
2002	150	12.0	1,800	47.0	846
2003	160	11.9	1,900	44.0	836
2004	140	10.7	1,500	50.0	750
Counties:					
Hawaii/Honolulu ²					
2000	135	10.4	1,400	44.0	616
2001	135	10.7	1,450	47.3	686
2002	120	12.1	1,450	48.2	699
2003	125	11.6	1,450	45.5	660
2004	110	10.0	1,100	49.6	546
Maui					
2000	55	10.9	600	40.7	244
2001	55	10.0	550	38.9	214
2002	30	11.7	350	42.0	147
2003	35	12.9	450	39.0	176
2004	30	13.3	400	51.0	204

¹ Sum of county estimates may not add to State total due to rounding.

² Honolulu combined with Hawaii to avoid disclosure of individual operations.

ROMAINE: Acreage, production, and price, State of Hawaii, 2000-2004

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2000	22	21	18	14	17	12	11	13	13	14	18	17	190
2001	19	22	21	24	15	14	10	9	12	11	17	16	190
2002	17	15	16	14	14	10	9	9	8	9	12	17	150
2003	19	13	14	18	13	11	10	10	9	12	13	18	160
2004	8	18	14	12	10	9	9	12	10	10	12	16	140
Production - 1,000 pounds													
2000	201	202	236	219	214	129	115	105	119	129	116	215	2,000
2001	238	264	194	285	179	154	114	104	94	99	152	123	2,000
2002	155	181	215	184	173	123	124	114	113	123	120	175	1,800
2003	194	148	173	184	205	163	131	127	125	132	164	154	1,900
2004	107	131	107	119	124	136	125	131	123	123	128	146	1,500
Farm price - cents per pound													
2000	40.9	42.7	38.9	41.0	43.1	41.4	41.2	40.1	42.2	43.8	44.3	54.5	43.0
2001	45.4	48.1	43.8	44.3	43.1	42.6	44.1	45.4	44.7	43.2	46.9	46.7	45.0
2002	41.4	50.6	58.0	51.6	45.9	44.5	42.3	43.5	44.5	44.9	44.3	43.5	47.0
2003	40.4	41.1	39.4	44.9	37.8	49.5	47.3	46.3	45.6	45.2	45.1	49.3	44.0
2004	54.7	54.5	42.2	45.3	52.5	47.6	47.2	46.7	49.1	50.6	51.2	56.8	50.0

ITALIAN SQUASH

ITALIAN SQUASH: Acreage, yield, production, price, and value, by counties, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2000	180	12.2	2,200	47.0	1,033
2001	160	11.3	1,800	50.0	900
2002	175	8.0	1,400	46.0	644
2003	150	12.0	1,800	52.0	936
2004	230	7.4	1,700	54.0	918
Counties:					
Hawaii/Honolulu/Kauai ²					
2000	115	10.6	1,220	45.3	553
2001	100	10.0	1,000	50.0	500
2002	100	7.7	770	47.0	362
2003	65	11.1	720	48.8	351
2004	155	6.1	940	53.2	500
Maui					
2000	65	15.1	980	49.0	480
2001	60	13.3	800	50.0	400
2002	75	8.4	630	44.8	282
2003	85	12.7	1,080	54.2	585
2004	75	10.1	760	55.0	418

¹ Sum of county estimates may not add to State total due to rounding.

² Honolulu and Kauai combined with Hawaii to avoid disclosure of individual operations.

SWEETPOTATOES

SWEETPOTATOES: Acreage, yield, production, price, and value, by counties, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State¹					
2000	260	9.6	2,500	60.0	1,500
2001	220	8.2	1,800	50.0	900
2002	300	7.7	2,300	43.0	989
2003	210	10.0	2,100	41.0	861
2004	400	11.5	4,600	47.0	2,162
Counties:					
Hawaii/Honolulu/Kauai²					
2000	195	9.6	1,880	60.0	1,128
2001	170	8.4	1,420	47.3	672
2002	205	8.0	1,650	39.8	657
2003	150	9.6	1,440	36.4	524
2004	350	11.4	4,000	45.8	1,832
Maui					
2000	65	9.5	620	60.0	372
2001	50	7.6	380	60.0	228
2002	95	6.8	650	51.1	332
2003	60	11.0	660	50.9	336
2004	50	12.0	600	55.0	330

¹ Sum of county estimates may not add to State total due to rounding.

² Honolulu and Kauai combined with Hawaii to avoid disclosure of individual operations.

TARO: Number of farms, acreage, marketings, price, and value, by counties, 2000-2004

Year	Farms	Acreage in crop ¹			Marketings			Farm price			Value of sales
		Poi taro	Chinese taro	Total	Fresh	Processed	Total	Poi taro	Chinese taro	All	
											1,000 dollars
	Number	----- Acres -----			----- 1,000 pounds -----			----- Cents per pound -----			
State											
2000	185	430	40	470	200	6,800	7,000	53.3	45.3	53.0	3,710
2001	170	420	20	440	200	6,200	6,400	53.2	50.0	53.0	3,392
2002	150	400	30	430	300	5,800	6,100	54.2	51.2	54.0	3,294
2003	150	390	30	420	200	4,800	5,000	53.9	56.3	54.0	2,700
2004	130	360	10	370	100	5,100	5,200	54.0	53.8	54.0	2,808
Counties:											
Hawaii											
2000	85	80	40	120	200	700	900	61.6	45.3	56.2	506
2001	60	70	20	90	150	650	800	60.4	48.9	51.5	443
2002	50	60	20	80	200	550	750	61.4	48.4	55.3	415
2003	40	55	15	70	130	450	580	59.7	54.9	57.8	335
2004	30	50	10	60	100	400	500	60.0	53.1	57.5	288
Honolulu/Maui ²											
2000	30	100	*	100	*	1,300	1,300	52.6	³	52.6	684
2001	40	100	*	100	50	1,250	1,300	53.0	57.3	53.0	691
2002	35	90	10	100	60	1,190	1,250	54.6	67.2	55.2	690
2003	40	85	15	100	50	1,050	1,100	54.7	61.6	55.0	605
2004	35	75	*	75	*	800	800	55.1	³	55.1	441
Kauai											
2000	70	250	*	250	*	4,800	4,800	52.5	³	52.5	2,520
2001	70	250	*	250	*	4,300	4,300	52.5	³	52.5	2,258
2002	65	250	*	250	40	4,060	4,100	53.4	³	53.4	2,189
2003	70	250	*	250	20	3,300	3,320	53.0	³	53.0	1,760
2004	65	235	*	235	*	3,900	3,900	53.3	³	53.3	2,079

* = Less than 5 acres or 5,000 pounds.

¹ Survey conducted in November each year. Does not include acreage used primarily for leaf production.

² Maui combined with Honolulu to avoid disclosure of individual operations.

³ Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

TOMATOES

TOMATOES: Acreage, yield, production, price, and value, State of Hawaii, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
2000	500	33.0	16,500	52.0	8,580
2001	580	30.2	17,500	53.0	9,275
2002	580	30.2	17,500	55.0	9,625
2003	560	31.3	17,500	58.0	10,150
2004	600	28.0	16,800	66.0	11,088

TOMATOES: Acreage, production, and price, State of Hawaii, 2000-2004

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres ¹													
2000	49	49	43	50	58	56	33	40	42	47	44	48	500
2001	48	47	61	64	60	49	49	47	44	50	55	60	580
2002	60	60	61	62	62	51	53	48	48	46	55	56	580
2003	55	57	59	56	55	54	54	54	52	59	62	62	560
2004	61	59	52	52	52	51	48	47	49	59	58	59	600
Production - 1,000 pounds													
2000	1,138	1,318	1,208	1,347	1,423	1,414	1,252	1,372	1,173	1,381	1,727	1,747	16,500
2001	1,423	1,316	1,402	1,394	1,453	1,805	1,547	1,502	1,577	1,463	1,283	1,335	17,500
2002	1,370	1,431	1,553	1,412	1,460	1,491	1,543	1,534	1,481	1,383	1,352	1,490	17,500
2003	1,407	1,350	1,386	1,468	1,503	1,478	1,564	1,497	1,438	1,517	1,529	1,363	17,500
2004	1,440	1,070	1,441	1,443	1,748	1,324	1,678	1,453	1,323	1,527	1,079	1,274	16,800
Farm price - cents per pound													
2000	46.4	43.9	46.8	56.0	49.9	45.8	43.0	46.0	64.9	59.8	62.1	52.0	52.0
2001	58.8	63.2	61.6	55.6	56.6	51.5	43.5	49.7	43.7	45.9	55.3	54.7	53.0
2002	64.3	48.3	55.5	57.0	59.5	57.3	51.8	48.5	42.4	51.2	58.7	66.7	55.0
2003	65.6	58.9	60.2	54.3	52.7	57.1	57.1	53.6	54.0	60.9	61.2	60.9	58.0
2004	59.3	64.4	72.4	65.6	71.6	61.9	44.1	55.5	60.0	74.8	80.0	89.7	66.0

¹ Sum of monthly data exceeds total because harvest period longer than 1 month.

WATERMELONS

WATERMELONS: Acreage, yield, production, price, and value, by counties, 2000-2004

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2000	560	22.5	12,600	25.0	3,150
2001	520	20.2	10,500	24.0	2,520
2002	550	20.5	11,300	26.0	2,938
2003	450	26.4	11,900	24.0	2,856
2004	510	19.8	10,100	24.0	2,424
Counties:					
Hawaii/Kauai/Maui ²					
2000	5	40.0	200	25.0	50
2001	5	24.0	120	24.0	29
2002	30	10.0	300	33.3	100
2003	40	5.3	210	29.3	62
2004	125	4.8	600	24.0	144
Honolulu					
2000	555	22.3	12,400	25.0	3,100
2001	515	20.2	10,380	24.0	2,491
2002	520	21.2	11,000	25.8	2,838
2003	410	28.5	11,690	23.9	2,794
2004	385	24.7	9,500	24.0	2,280

¹ Sum of county estimates may not add to State total due to rounding.

² Kauai and Maui combined with Hawaii to avoid disclosure of individual operations.

OTHER VEGETABLES

OTHER VEGETABLES: Acreage, yield, production, price, and value, State of Hawaii, 2000-2004

Crop and year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
Bittermelon					
2000	20	15.0	300	85.0	255
2001	15	16.7	250	80.0	200
2002	20	10.0	200	90.0	180
2003	15	14.7	220	70.0	154
2004	20	12.5	250	80.0	200
Broccoli					
2000	100	4.0	400	60.0	240
2001	155	3.5	550	65.0	358
2002	150	3.7	550	68.0	374
2003	170	4.4	750	60.0	450
2004	125	4.0	500	67.0	335
Burdock					
2000	15	12.0	180	150.0	270
2001	15	10.0	150	145.0	218
2002 ¹					
2003 ¹					
2004¹					
Cabbage, mustard					
2000	130	11.5	1,500	43.0	645
2001	130	12.3	1,600	50.0	800
2002	130	10.8	1,400	51.0	714
2003	130	10.0	1,300	52.0	676
2004	155	9.0	1,400	58.0	812
Pumpkins					
2000	15	11.3	170	45.1	77
2001	35	11.4	400	41.0	164
2002	80	5.0	400	40.0	160
2003	70	12.1	850	48.0	408
2004	40	6.3	250	58.0	145
Radish					
2000	10	10.0	100	63.0	63
2001	15	10.0	150	60.0	90
2002	10	10.0	100	55.0	55
2003 ¹					
2004¹					
Squash, Oriental (Hyotan and Togan)					
2000	25	24.0	600	37.0	222
2001	20	25.0	500	35.0	175
2002	10	25.0	250	41.0	103
2003	10	20.0	200	46.0	92
2004	50	13.0	650	53.0	345

¹ Data not shown separately to avoid disclosure of individual operations.

PROCESSED CHINESE CABBAGE AND DAIKON, WATERCRESS

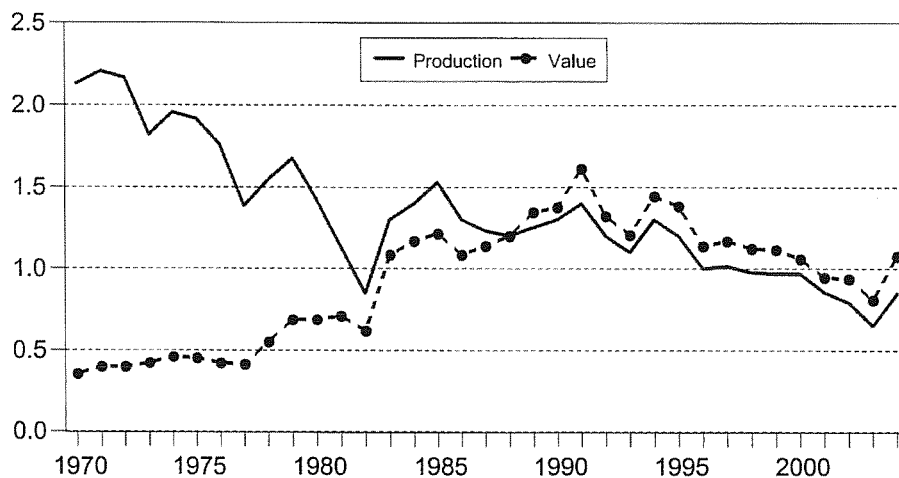
PROCESSED CHINESE CABBAGE AND DAIKON: Quantity processed, price, and value, State of Hawaii, 2000-2004

Year	Chinese cabbage			Daikon		
	Quantity processed	Farm price	Value of sales	Quantity processed	Farm price	Value of sales
	<i>1,000 pounds</i>	<i>Cents per pound</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>	<i>Cents per pound</i>	<i>1,000 dollars</i>
2000	1,000	21.0	210	350	28.0	98
2001	1,000	23.0	230	400	28.0	112
2002	1,100	24.0	264	400	30.0	120
2003	1,200	23.0	276	400	31.0	124
2004¹						

¹ Beginning 2004, estimates have been discontinued due to insufficient data.

WATERCRESS: Production and Farm Value, State of Hawaii, 1970-2004

Million pounds and dollars



USDA, NASS, Hawaii Field Office

WATERCRESS: Acreage, production, price, and value, State of Hawaii, 2000-2004

Year	Acreage in crop	Production	Farm price	Value of sales
	<i>Acres</i>	<i>1,000 pounds</i>	<i>Cents per pound</i>	<i>1,000 dollars</i>
2000	35	970	110.0	1,067
2001	35	860	110.0	946
2002	35	800	118.0	944
2003	30	650	125.0	812
2004	30	850	127.0	1,080

2004 CATTLE, MILK, AND HOG HIGHLIGHTS

CATTLE

Cattle marketings during 2004 totaled 34.8 million pounds, live weight. This was 18 percent more than 2003. This increase was the result of increases in both the number of cattle and calves sold as well as the increase in the average live weight of the cattle and calves marketed. The 58,000 head of cattle and calves marketed was 5 percent more than 2003. When compared with the previous year, there were more cattle weighing more than 500 pounds, and fewer calves weighing less than 500 pounds marketed. Exports during 2004, which totaled 43,000 head, accounted for 74 percent of all of the cattle and calves sold. The majority of the animals exported were calves weighing less than 500 pounds, live weight. Local commercial slaughter during 2004 dipped 3 percent from 2003 to 10,500 head.

The combined annual average price ranchers received for all cattle and calves marketed increased 10 percent to \$63.70 per cwt. This increase resulted from the combined effect of the higher average price for animals marketed and an increase in the number of higher priced calves marketed in 2004. Cash revenues in 2004 increased 29 percent from 2003 to a total of \$22.1 million, the direct result of more and heavier animals marketed.

The inventory of cattle and calves on Hawaii's ranches totaled 155,000 head on January 1, 2005, a decrease of 1 percent from 2004, but 3 percent above 2003. Hawaii County, which accounts for just under 75 percent of the State's total, recorded a 1 percent increase in inventory at 116,000 head.

MILK

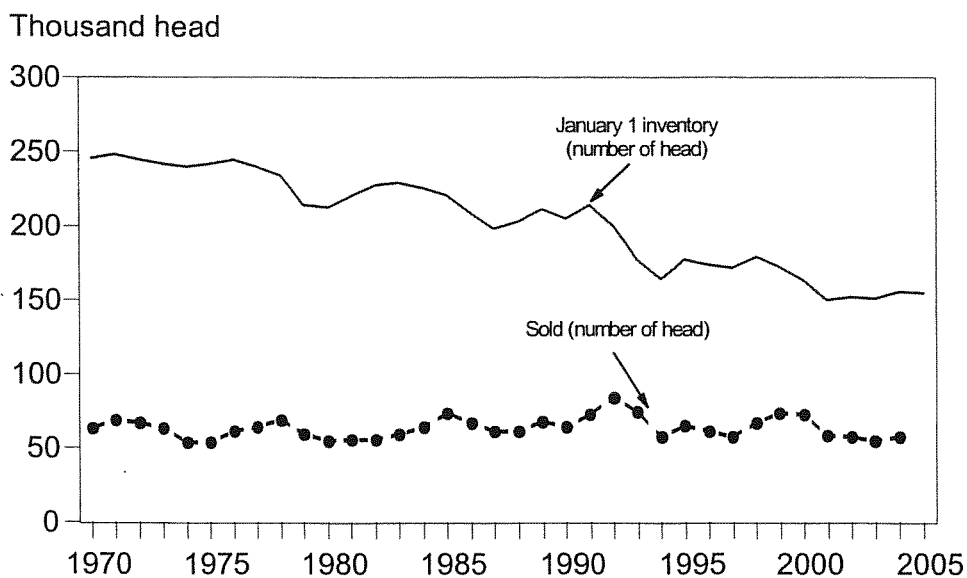
In 2004, dairy cows statewide produced 80.5 million pounds of milk. The 13 percent drop from 2003 resulted from a smaller cow herd producing less output. The cow herd totaled 6,100 head, declining 400 head from 2003. Cows produced an average of 13,197 pounds in 2004, down 957 pounds from the 2003 output. Producers received \$25.70 or \$2.00 more per hundredweight for milk sold in 2004 than 2003. Despite a higher price for milk, revenues at the farm gate level fell 6 percent from the previous year to totaled \$20.2 million in 2004 and has fallen annually since 1999. Milk fat averaged 3.52 percent in 2004 compared with 3.49 in 2003.

HOGS AND PIGS

Hog marketings during 2004, remained unchanged at 5.1 million pounds. The number of hogs marketed also remained unchanged at 27,000 head. However, the average price farmers received for their hogs and pigs increased 3 percent to \$87.00 per hundred pounds. The net result is a 3 percent increase in cash receipts from the sales of hogs and pigs from 2003, to \$4.5 million in 2004.

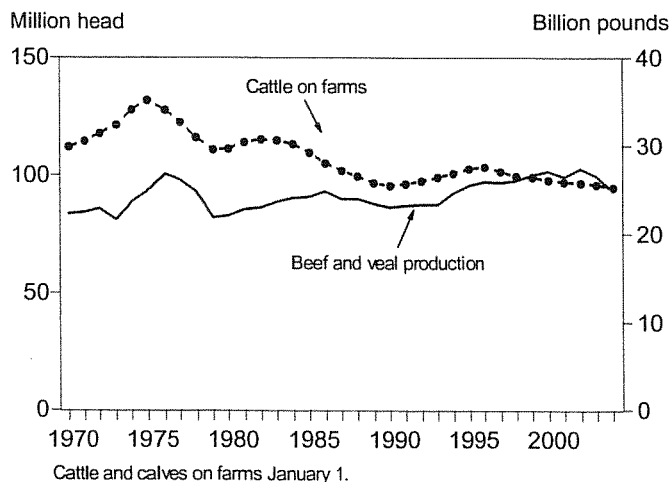
The total number of hogs and pigs on hand in the State on December 1, 2004 was 22,000 head, 1,000 head fewer than in 2003. The share of hogs and pigs in Honolulu County, at 13,000 head, accounted for just under 60 percent of the State's inventory.

Cattle Inventory and Marketings, State of Hawaii, 1970-2005

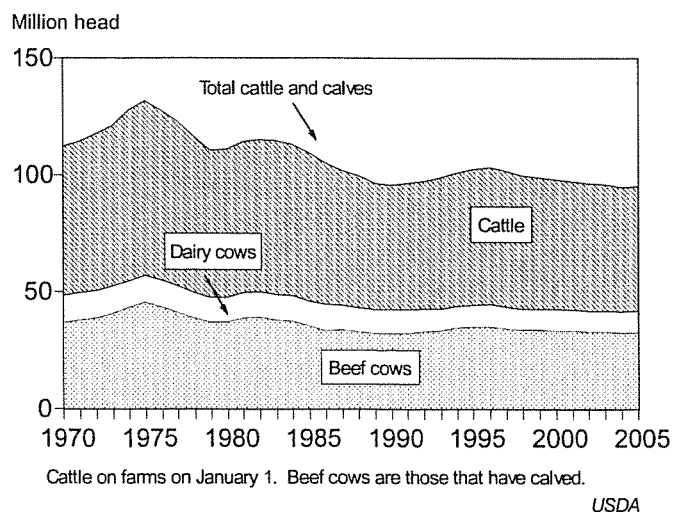


USDA, NASS, Hawaii Field Office

U.S. Cattle Numbers and Beef Production



U.S. Cattle on Farms



CATTLE

CATTLE AND CALVES: January 1 inventory by sex classes and weight, by counties, 2001-2005

Year	All cattle and calves	All cows and heifers that have calved			Heifers 500 pounds and over				Steers 500 lbs. and over	Bulls 500 lbs. and over	Steers, heifers, and bulls under 500 lbs.
		Total	Beef cows	Milk cows	Total	Beef cow replacements	Milk cow replacements	Other			
1,000 head											
State ¹											
2001	150	88	81	7	18	10	3	5	6	4	34
2002	152	85	78	7	20	10	3	7	8	4	35
2003	151	86	79	7	21	12	3	6	7	5	32
2004	156	88	82	6	20	12	2	6	7	5	36
2005	155	87	81.3	5.7	22	15	2	5	7	5	34
Counties:											
Hawaii											
2001	110.1	66.6	64.0	2.6	12.5	7.3	1.9	3.3	3.6	3.4	24.0
2002	113.6	64.6	61.6	3.0	13.9	8.1	1.7	4.1	4.4	3.4	27.3
2003	113.0	64.7	61.4	3.3	14.6	9.4	1.6	3.7	4.4	3.9	25.3
2004	115.4	66.4	63.2	3.2	14.8	8.8	1.5	4.5	4.1	3.7	26.4
2005	116.0	64.4	61.4	3.0	16.2	11.7	1.2	3.3	4.5	3.7	27.2
Honolulu											
2001	9.4	5.5	.8	4.7	1.7	.2	1.3	.2	.1	.1	2.0
2002	8.4	4.9	1.2	3.7	1.6	.2	1.2	.2	.4	.1	1.4
2003	8.8	5.3	2.0	3.3	1.6	.3	1.0	.3	.4	.2	1.3
2004	10.6	6.2	3.0	3.2	1.5	.3	.9	.3	.6	.2	2.1
2005	8.0	5.1	2.4	2.7	1.2	.5	.5	.2	.3	.1	1.3
Kauai											
2001	10.8	5.0	5.0	*	1.7	.9	0	.8	1.1	.3	2.7
2002	9.7	4.5	4.5	*	1.5	1.0	0	.5	1.2	.3	2.2
2003	10.4	5.4	5.4	*	2.0	1.2	0	.8	1.0	.4	1.6
2004	11.6	5.4	5.4	*	2.0	1.2	0	.8	1.1	.4	2.7
2005	12.0	6.3	6.3	*	1.9	1.1	0	.8	1.2	.4	2.2
Maui											
2001	19.7	11.1	11.1	*	2.1	1.3	.2	.6	1.1	.5	4.9
2002	20.3	11.0	11.0	*	3.0	1.1	0	1.9	1.8	.5	4.0
2003	18.8	10.6	10.6	*	2.5	1.4	0	1.1	1.0	.6	4.1
2004	18.4	10.6	10.6	*	2.0	1.3	0	.7	.8	.6	4.4
2005	19.0	11.2	11.2	*	2.5	1.5	0	1.0	1.2	.6	3.5

* = Less than 50.

¹ Sum of county estimates may not add to State total due to rounding.

**CATTLE AND CALVES: Number of operations, number and pounds sold, price, and value,
by counties, 2000-2004**

Year	Operations	Number sold ^{1 2}	Pounds sold (live weight) ³	Farm price (live weight) ⁴	Value of sales ²
	<i>Number</i>	<i>1,000 head</i>	<i>1,000 pounds</i>	<i>Dollars per hundredweight</i>	<i>1,000 dollars</i>
State					
2000	800	73	39,840	48.20	19,204
2001	750	59	31,520	57.10	18,007
2002	750	58	34,010	53.90	18,326
2003	750	55	29,570	58.10	17,192
2004	800	58	34,750	63.70	22,125
Counties:					
Hawaii					
2000	470	55.0	28,660	49.30	14,138
2001	440	45.0	22,957	58.50	13,438
2002	440	44.1	25,399	54.00	13,724
2003	440	45.7	23,167	59.60	13,811
2004	470	44.3	25,217	65.90	16,609
Honolulu					
2000	60	1.9	1,748	31.80	556
2001	50	1.9	1,522	39.70	604
2002	50	1.6	1,323	43.20	572
2003	50	.5	519	39.10	203
2004	50	1.7	1,166	57.50	670
Kauai					
2000	100	4.1	2,725	47.00	1,280
2001	110	4.3	2,785	54.80	1,527
2002	120	4.2	2,749	52.50	1,442
2003	120	2.3	1,818	50.20	912
2004	120	4.8	3,259	58.70	1,914
Maui					
2000	170	12.0	6,707	48.20	3,230
2001	150	7.4	4,256	57.30	2,438
2002	140	8.1	4,539	57.00	2,588
2003	140	6.5	4,066	55.70	2,266
2004	160	7.2	5,108	57.40	2,932

¹ Includes custom slaughter for home use on farms where produced and out-of-State sales of cattle and calves, but excludes inter-farm sales.

² Sum of county estimates may not add to State total due to rounding.

³ Excludes custom slaughter for use on farms where produced.

⁴ Prices are equivalent delivered slaughterhouse for sales on county of production and delivered shipper's dock for interisland and out-of-State sales.

CATTLE

CATTLE: Number of cattle sold, pounds, price, and value, State of Hawaii, 2000-2004

Year	Number sold ¹	Pounds sold (live weight) ²	Farm price (live weight)	Value of sales
	<i>1,000 head</i>	<i>1,000 pounds</i>	<i>Dollars per hundredweight</i>	<i>1,000 dollars</i>
2000	27	22,360	38.20	8,542
2001	17	14,720	41.30	6,079
2002	20	18,050	41.40	7,473
2003	14	12,350	41.60	5,138
2004	24	20,470	45.30	9,273

¹ Includes custom slaughter for home use on farms where produced and out-of-State sales of cattle, but excludes inter-farm sales.

² Excludes custom slaughter for use on farms where produced.

CALVES: Number of calves sold, pounds, price, and value, State of Hawaii, 2000-2004

Year	Number sold ¹	Pounds sold (live weight) ²	Farm price (live weight)	Value of sales
	<i>1,000 head</i>	<i>1,000 pounds</i>	<i>Dollars per hundredweight</i>	<i>1,000 dollars</i>
2000	46	17,480	61.00	10,663
2001	42	16,800	71.00	11,928
2002	38	15,960	68.00	10,853
2003	41	17,220	70.00	12,054
2004	34	14,280	90.00	12,852

¹ Includes custom slaughter for home use on farms where produced and out-of-State sales of calves, but excludes inter-farm sales.

² Excludes custom slaughter for use on farms where produced.

CATTLE AND CALVES: Inventory and disposition, State of Hawaii, 2000-2004

Year	Inventory beginning January 1	Calf crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory January 1 following year
	<i>1,000 head</i>						
2000	164	69	*	73	1	9	150
2001	150	66	*	59	*	5	152
2002	152	63	*	58	1	5	151
2003	151	66	*	55	1	5	156
2004	156	63	*	58	1	5	155

* = Less than 500.

CATTLE AND CALVES: Exports, State of Hawaii, 2000-2004

Year	Total	Cattle ¹	Calves ²	Steers	Heifers
	<i>1,000 head</i>				
2000	51	5	46	30	21
2001	46	4	42	27	19
2002	42	4	38	25	17
2003	44	3	41	25	19
2004	43	9	34	26	17

¹ 500 pounds or more.

² 499 pounds or less.

CATTLE: Commercial slaughter and farm price, State of Hawaii, 2000-2004¹

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
------	------	------	------	------	-----	------	------	------	------	------	------	------	------------------

Number of head² - 1,000 head

2000	1.4	1.3	1.4	1.4	1.8	1.6	1.6	1.5	1.3	1.3	1.2	1.1	17.0
2001	1.2	1.1	1.3	1.2	1.0	1.1	1.0	1.2	.8	1.1	.6	1.0	12.7
2002	1.1	.9	1.0	.9	1.0	.9	1.1	1.1	.9	1.0	1.0	.8	11.6
2003	.8	.9	.8	1.0	.9	.9	1.1	.9	.9	.9	.8	.7	10.8
2004	.9	.8	.9	.8	.9	.8	1.0	1.1	.9	.9	.9	.8	10.5

Pounds slaughtered, dressed weight^{2,3} - 1,000 pounds

2000	699	671	738	713	894	831	809	781	693	693	632	658	8,810
2001	663	614	724	636	534	621	551	684	475	604	384	527	7,016
2002	592	488	565	553	544	516	597	646	538	591	567	471	6,668
2003	484	530	485	551	525	488	626	545	525	516	461	441	6,176
2004	570	456	551	472	511	461	599	625	501	502	482	446	6,176

Average farm price, dressed weight - cents per pound

2000	61.5	62.5	60.5	63.0	60.0	62.0	62.0	61.5	61.5	64.0	64.5	61.5	62.0
2001	63.5	61.0	61.5	61.0	63.5	64.5	64.5	65.5	68.0	67.5	67.5	67.5	64.5
2002	63.5	65.0	63.5	65.0	67.5	65.5	63.0	64.5	63.0	62.5	68.0	71.0	65.0
2003	68.0	66.0	68.0	65.0	69.0	70.5	70.5	69.5	69.5	72.0	73.0	77.5	70.0
2004	71.0	74.0	74.5	72.5	72.0	79.0	72.0	71.0	76.0	76.5	75.0	80.0	74.0

¹ Includes custom slaughter for home use.

² Sum of monthly estimates may not add to annual total due to rounding.

³ To convert dressed weight to live weight, divide dressed weight by 0.549 or multiply by a factor of 1.8215.

CATTLE: Local marketings and farm price, State of Hawaii, 1992-2004¹

Year	Steers and heifers			Cows		
	Marketings (dressed weight)	Average price		Marketings (dressed weight)	Average price	
		Live weight ²	Dressed weight		Live weight ²	Dressed weight
	1,000 pounds	----- Cents per pound -----		1,000 pounds	----- Cents per pound -----	
1992	15,354	49.9	91.0	5,065	33.7	61.5
1993	4,805	46.4	84.5	5,065	34.7	63.0
1994	3,818	47.6	87.0	4,478	32.9	60.0
1995	2,596	49.3	89.5	4,529	29.8	54.5
1996	3,777	47.3	86.0	5,486	27.5	50.0
1997	3,762	47.1	86.0	5,029	28.8	52.5
1998	4,337	45.6	83.0	6,282	27.2	49.5
1999	2,980	44.8	81.5	4,620	27.6	50.0
2000	5,308	44.3	80.5	4,501	27.4	50.0
2001	2,692	50.9	92.5	3,060	28.7	52.5
2002	5,595	47.8	87.0	2,846	29.0	53.0
2003	3,067	50.1	91.5	1,891	27.6	50.5
2004	6,023	50.5	92.0	1,647	27.7	50.5

¹ Excludes out-of-State shipments.

² To convert live weight to dressed weight, divide live weight by 0.549 or multiply by a factor of 1.8215.

MILK

MILK: Number of operations, number of milk cows, production, sales, price, and value, by counties, 2000-2004

Year	Operations ¹	Annual average milk cows	Milk per cow	Production ²	Sold ²	Average price ³	Value of sales
	----- Number -----		Pounds	----- Million pounds -----		Dollars per hundredweight	1,000 dollars
State							
2000	35	8,100	14,358	116.3	114.7	24.50	28,102
2001	30	7,500	14,107	105.8	104.1	25.50	26,546
2002	30	6,600	14,667	96.8	95.2	23.60	22,467
2003	30	6,500	14,154	92.0	90.5	23.70	21,449
2004 ⁴	30	6,100	13,197	80.5	78.5	25.70	20,175
Counties:							
Hawaii/Kauai ⁵							
2000	29	2,900	13,138	38.1	36.6	23.80	8,715
2001	24	3,000	11,300	33.9	32.4	23.60	7,630
2002	24	3,100	11,484	35.6	34.3	23.50	8,066
2003	24	3,200	11,000	35.2	33.9	23.40	7,947
2004 ⁴							
Honolulu							
2000	6	5,200	15,038	78.2	78.1	24.80	19,387
2001	6	4,500	15,978	71.9	71.7	26.40	18,916
2002	6	3,500	17,486	61.2	60.9	23.70	14,401
2003	6	3,300	17,212	56.8	56.6	23.90	13,502
2004 ⁴							

¹ Includes commercial, licensed dairies as well as farms with only a few cows.

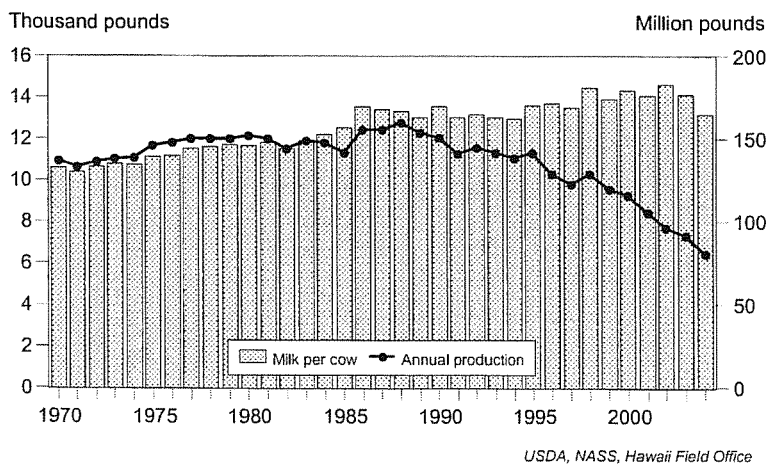
² Difference between "Production" and "Sold" is milk used on farms for human consumption, fed to calves or other uses.

³ Rounded to the nearest dime.

⁴ Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

⁵ Kauai combined with Hawaii to avoid disclosure of individual operations.

MILK: Production and Milk per Cow Annual Basis, State of Hawaii, 1970-2004



MILK: Number of cows, milk production, price, and milk fat, State of Hawaii, 2000-2004

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
------	------	------	------	------	-----	------	------	------	------	------	------	------	------------------

Average number of milk cows on hand during month - 1,000 head

2000	8.4	8.4	8.5	8.5	8.5	8.3	8.2	8.0	7.9	7.7	7.7	7.5	8.1
2001	7.7	7.7	7.5	7.5	7.5	7.6	7.5	7.4	7.4	7.4	7.3	7.4	7.5
2002	6.7	6.7	6.7	6.8	6.7	6.7	6.7	6.4	6.4	6.5	6.6	6.6	6.6
2003	6.6	6.6	6.5	6.4	6.5	6.3	6.4	6.5	6.6	6.6	6.6	6.5	6.5
2004	6.5	6.5	6.4	6.4	6.2	6.1	6.0	5.9	6.0	5.8	5.7	5.8	6.1

Average monthly production per all cows in herd - pounds

2000	1,095	1,070	1,200	1,210	1,330	1,275	1,305	1,250	1,150	1,130	1,090	1,175	14,358
2001	1,170	1,115	1,345	1,295	1,295	1,250	1,240	1,205	1,055	1,095	1,025	1,025	14,107
2002	1,210	1,150	1,300	1,295	1,315	1,210	1,270	1,235	1,170	1,140	1,120	1,195	14,667
2003	1,225	1,150	1,275	1,265	1,275	1,255	1,250	1,170	1,060	1,060	1,015	1,140	14,154
2004	1,125	1,060	1,205	1,125	1,210	1,230	1,165	1,085	935	985	1,020	1,015	13,197

Milk production - million pounds

2000	9.2	9.0	10.2	10.3	11.3	10.6	10.7	10.0	9.1	8.7	8.4	8.8	116.3
2001	9.0	8.6	10.1	9.7	9.7	9.5	9.3	8.9	7.8	8.1	7.5	7.6	105.8
2002	8.1	7.7	8.7	8.8	8.8	8.1	8.5	7.9	7.5	7.4	7.4	7.9	96.8
2003	8.1	7.6	8.3	8.1	8.3	7.9	8.0	7.6	7.0	7.0	6.7	7.4	92.0
2004	7.3	6.9	7.7	7.2	7.5	7.5	7.0	6.4	5.6	5.7	5.8	5.9	80.5

Average price for milk sold to plants - dollars per hundredweight

2000	23.8	23.9	23.5	24.4	24.7	24.8	25.2	24.7	24.7	24.7	24.6	25.0	24.50
2001	25.9	24.5	25.0	24.9	25.5	25.8	26.2	26.0	26.1	26.4	25.8	24.1	25.50
2002	24.0	24.1	23.7	23.8	23.7	23.4	23.3	23.3	23.3	23.5	23.7	23.4	23.60
2003	23.4	23.0	22.9	22.6	22.8	22.7	22.9	24.4	25.3	25.3	25.2	24.7	23.70
2004	24.1	23.9	24.2	25.4	28.0	29.4	27.0	25.1	25.0	25.2	25.1	25.3	25.70

Average milk fat for milk sold to plants - percent

2000	3.5	3.5	3.4	3.5	3.4	3.4	3.3	3.4	3.4	3.5	3.5	3.4	3.47
2001	3.4	3.4	3.4	3.3	3.4	3.3	3.3	3.4	3.4	3.4	3.5	3.5	3.43
2002	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.47
2003	3.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.6	3.6	3.49
2004	3.6	3.5	3.5	3.5	3.4	3.4	3.4	3.4	3.5	3.6	3.6	3.5	3.52

HOGS

HOGS AND PIGS: December 1 inventory by classes and weight, State of Hawaii, 2000-2004

Year	All hogs and pigs	Breeding	Market				
			Total	Under 60 lbs.	60-119 lbs.	120-179 lbs.	180 lbs. and over
1,000 head							
2000	26	5	21	10	6	3	2
2001	27	6	21	9	6	4	2
2002	24	5	19	8	5	4	2
2003	23	5	18	8	5	3	2
2004	22	5.2	16.8	7.6	4.4	3.2	1.6

HOGS AND PIGS: December 1 inventory by class, by counties, 2000-2004

Year	All hogs and pigs	Breeding	Total market	Year	All hogs and pigs	Breeding	Total market
<i>1,000 head</i>				<i>1,000 head</i>			
Counties:							
Hawaii				Kauai			
2000	4.0	.8	3.2	2000	1.8	.3	1.5
2001	4.4	.7	3.7	2001	2.0	.4	1.6
2002	2.8	.3	2.5	2002	2.1	.3	1.8
2003	2.2	.4	1.8	2003	2.0	.3	1.7
2004	1.4	.3	1.1	2004	2.2	.5	1.7
Honolulu				Maui			
2000	15.0	3.0	12.0	2000	5.2	1.1	4.1
2001	14.8	3.0	11.8	2001	5.8	1.7	4.1
2002	12.8	2.8	10.0	2002	6.3	1.6	4.7
2003	13.5	2.7	10.8	2003	5.3	1.3	4.0
2004	13.0	2.5	10.5	2004	5.4	1.9	3.5

**HOGS: Number of operations, number and pounds sold, price, and value,
by counties, 2000-2004**

Year	Operations	Number sold ¹	Pounds sold (live weight) ²	Farm price (live weight)	Value of sales
	<i>Number</i>	<i>1,000 head</i>	<i>1,000 pounds</i>	<i>Dollars per hundredweight</i>	<i>1,000 dollars</i>
State³					
2000	230	31	5,580	79.30	4,425
2001	230	31	5,425	83.20	4,514
2002	210	30	5,700	84.00	4,788
2003	210	27	5,130	84.70	4,345
2004	250	27	5,130	87.00	4,463
Counties:					
Hawaii					
2000	70	3.3	617	77.00	475
2001	70	3.3	574	81.00	465
2002	60	3.7	691	81.00	560
2003	60	2.8	530	83.00	440
2004	70	2.6	484	84.00	407
Honolulu					
2000	70	18.9	3,296	80.00	2,637
2001	70	18.9	3,390	84.00	2,848
2002	70	18.0	3,446	85.90	2,960
2003	70	15.5	3,016	86.00	2,594
2004	80	15.7	3,085	88.00	2,715
Kauai					
2000	30	2.9	491	77.00	378
2001	30	3.2	456	81.50	372
2002	30	3.3	528	81.50	430
2003	30	3.3	490	84.50	414
2004	40	3.6	545	88.50	482
Maui					
2000	60	5.9	1,176	79.50	935
2001	60	5.6	1,005	82.50	829
2002	⁴ 50	5.0	1,035	81.00	838
2003	50	5.4	1,094	82.00	897
2004	60	5.1	1,016	84.50	859

¹ Excludes interfarm sales; includes custom slaughter for home use; includes direct sales on farms to consumers. Excludes live hogs brought in for immediate slaughter.

² Excludes custom slaughter for use on farms where produced and interfarm sales.

³ Sum of county estimates may not add to State total due to rounding. Sales and value data are for the 12-month period, December of the previous year through November of the following year.

⁴ Revised.

HOGS

HOGS: Commercial slaughter and farm price, State of Hawaii, 2000-2004

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
------	------	------	------	------	-----	------	------	------	------	------	------	------	------------------

Number of head^{1 2} - 1,000 head

2000	2.9	2.8	3.0	2.7	3.2	3.2	2.7	3.1	2.8	3.0	2.9	3.6	35.8
2001	2.9	2.6	2.8	2.8	3.1	3.0	3.1	3.3	2.5	2.8	2.8	3.2	34.9
2002	2.7	2.5	2.6	2.7	2.8	2.6	2.8	2.8	2.4	2.6	2.6	3.1	32.1
2003	2.6	2.2	2.3	2.3	2.5	2.5	2.6	2.4	2.2	2.4	2.2	2.9	29.3
2004	2.4	2.0	2.3	2.3	2.3	2.4	2.5	2.5	2.2	2.2	2.3	3.0	28.3

Pounds slaughtered, dressed weight^{1 2 3} - 1,000 pounds

2000	440	407	467	414	490	504	428	486	437	464	441	556	5,531
2001	437	408	432	429	460	470	458	490	379	446	446	486	5,340
2002	415	391	423	419	450	412	433	461	374	428	397	489	5,092
2003	398	347	384	369	395	396	418	377	347	372	343	440	4,583
2004	353	311	338	344	356	359	373	386	331	347	354	447	4,297

All hogs, average farm price, dressed weight⁴ - cents per pound

2000	106.0	106.0	105.0	105.0	105.5	105.5	105.0	106.0	105.5	108.0	105.5	112.0	106.0
2001	110.5	110.5	111.5	110.0	110.5	111.5	111.0	110.5	110.5	110.5	111.0	113.5	111.0
2002	111.5	113.5	111.5	111.5	111.0	111.5	113.5	111.5	112.5	110.0	113.0	114.5	112.0
2003	112.5	113.0	113.0	111.0	112.0	112.0	111.0	111.0	115.0	114.0	114.0	117.0	113.0
2004	115.0	116.5	115.5	114.5	114.5	116.0	116.0	116.5	116.5	117.0	116.5		116.0

Market hogs, average farm price, dressed weight⁴ - cents per pound

2000	109.0	109.0	108.0	109.0	109.0	109.0	109.0	110.0	110.0	111.5	110.0	115.5	109.5
2001	114.5	114.5	114.5	113.0	114.0	114.5	115.0	114.0	114.5	114.0	114.5	117.5	114.5
2002	115.5	116.0	116.5	115.5	115.0	115.5	116.0	116.5	116.5	115.0	117.5	117.0	116.0
2003	116.0	117.0	117.5	117.0	116.5	116.0	117.0	117.0	118.0	118.0	117.5	119.0	117.0
2004	119.0	119.5	119.5	118.5	119.5	119.5	120.0	120.0	121.0	120.5	120.5		119.5

¹ Excludes non-inspected farm slaughter; includes custom slaughter and live hog inshipments from the mainland for slaughter.

² Sum of monthly estimates may not add to annual total due to rounding.

³ To convert dressed weight to live weight, divide dressed weight by 0.75 or multiply by a factor of 1.3333.

⁴ Annual average price is for the 12-month period, December of the previous year through November of the following year.

HOGS AND PIGS: Inventory and disposition, State of Hawaii, 2000-2004

Year	Inventory December 1 previous year	Annual pig crop	Inshipments ¹	Marketings ¹	Farm slaughter	Deaths	Inventory December 1
1,000 head							
2000	28	36	*	31	1	6	26
2001	26	37	*	31	1	4	27
2002	27	32	*	30	1	4	24
2003	24	31	*	27	1	4	23
2004	23	31	*	27	1	4	22

* = Less than 500 head.

¹ Excludes live hogs brought in for immediate slaughter.

2004 POULTRY AND EGG HIGHLIGHTS

Egg production for 2004 totaled 118.5 million eggs, 1 percent above the 117.2 million eggs produced during 2003. This increase in egg production reversed the thirteen years of consecutive declines. The average number of layers on hand during 2004 was 500,000, the lowest since 1960 and the 16th consecutive year of decline.

Cash receipts from the sale of eggs during 2004 was \$10.7 million, 14 percent greater than 2003.

The total number of egg-type chickens on hand in Hawaii on December 1, 2004 was 598,000 birds, fractionally below 2003. The 598,000 birds consisted of 507,000 layers and 91,000 non-laying pullets. The 507,000 layers was 4 percent more than a year ago.

CHICKENS: December 1 inventory by class, by counties, 2000-2004

Year	All chickens (excluding broilers)	Number of layers			Non-laying pullets		Other chickens (excluding broilers)
		Hens 1 year +	Pullets under 1 year	Total	Over 3 months	Under 3 months	
Thousands							
State							
2000	722	435	174	609	56	57	*
2001	659	373	181	554	50	55	*
2002	625	381	142	523	44	58	*
2003	600	357	129	486	67	47	*
2004	598	349	158	507	44	47	*
Counties:							
Hawaii/Kauai/Maui ¹							
2000	152	95	53	148	0	4	*
2001	146	77	65	142	0	4	*
2002	130	89	37	126	0	4	*
2003	118	100	11	111	5	2	*
2004	131	78	48	126	5	0	*
Honolulu							
2000	570	340	121	461	56	53	*
2001	513	296	116	412	50	51	*
2002	495	292	105	397	44	54	*
2003	482	257	118	375	62	45	*
2004	467	271	110	381	39	47	*

* = Less than 500.

¹ Kauai and Maui combined with Hawaii to avoid disclosure of individual operations.

POULTRY

EGGS: December 1 number of operations, number of layers, production, price, and value, by counties, 2000-2004¹

Year	Operations	Average number of layers	Average production per layer	Production ²	Average price ³	Value of sales
	<i>Number</i>	<i>1,000 birds</i>	<i>Eggs</i>	<i>Million eggs</i>	<i>Cents per dozen</i>	<i>1,000 dollars</i>
State⁴						
2000	70	604	237	⁵ 143.4	89.0	⁵ 10,639
2001	75	588	220	129.4	89.4	⁵ 9,637
2002	80	539	218	117.5	90.4	⁵ 8,854
2003	80	507	231	117.2	96.2	9,396
2004	80	500	237	118.5	108.0	10,665
Counties:						
Hawaii/Kauai/Maui⁶						
2000	55	150	239	35.9	104.5	3,127
2001	60	148	222	32.9	108.5	2,974
2002	65	126	229	28.9	105.5	2,540
2003	65	116	251	29.1	107.5	2,607
2004	65	122	227	27.7	110.0	2,539
Honolulu						
2000	15	454	⁵ 237	⁵ 107.5	⁵ 84.0	⁵ 7,512
2001	15	440	219	96.5	82.9	⁵ 6,663
2002	15	413	215	88.6	85.5	⁵ 6,314
2003	15	391	225	88.1	92.5	6,789
2004	15	378	240	90.8	107.5	8,126

¹ Annual number of layers, egg production, sales, price, and value are for the 12-month period, December of the previous year through November of the following year.

² Home consumption less than 0.5 million eggs included.

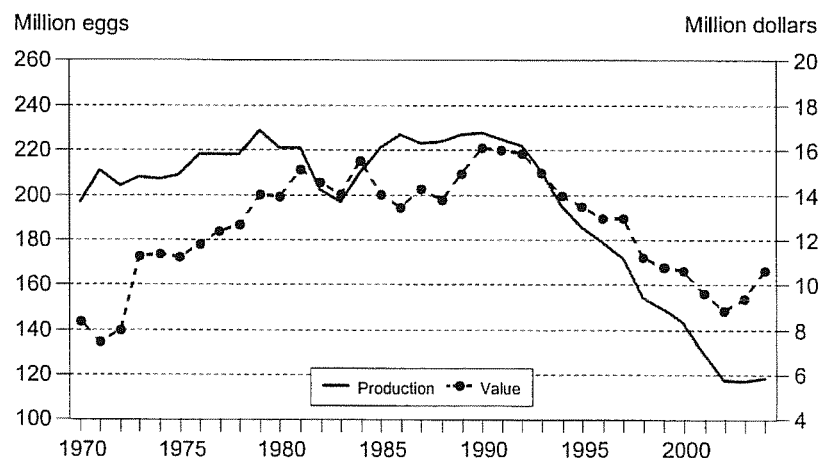
³ Equivalent delivered processing plant.

⁴ Sum of county estimates may not add to State total due to rounding.

⁵ Revised.

⁶ Kauai and Maui combined with Hawaii to avoid disclosure of individual operations.

EGGS: Production and Value of Sales, State of Hawaii, 1970-2004



USDA, NASS, Hawaii Field Office

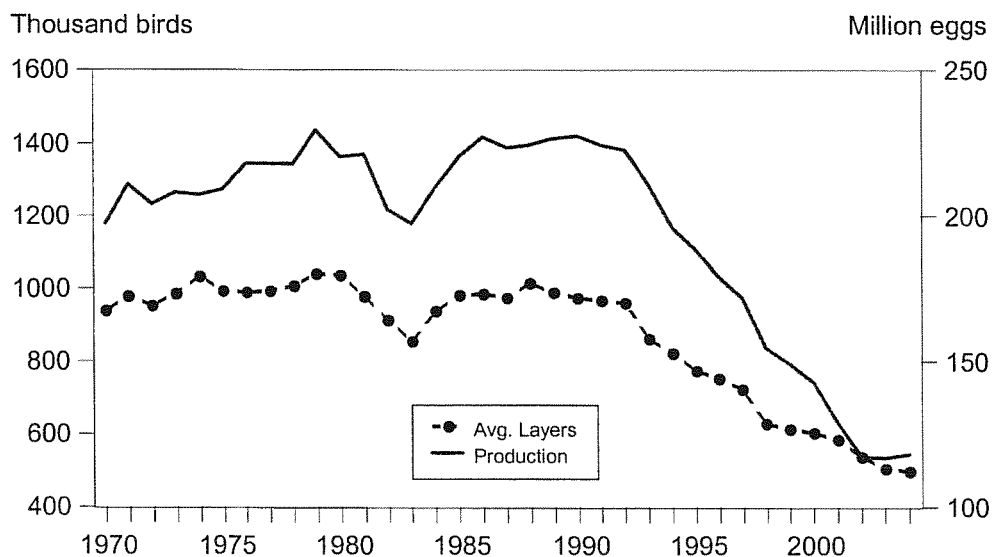
EGGS: Number of layers, production, and price, State of Hawaii, 2000-2004

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average ¹
Average number of layers on hand during month - 1,000 layers													
2000	580	596	615	615	607	610	603	607	604	612	621	616	604
2001	615	609	613	602	595	591	564	561	561	560	563	552	588
2002	547	538	543	545	524	532	540	538	537	537	534	532	539
2003	526	509	519	514	487	494	504	505	499	500	499	482	507
2004	492	501	504	505	502	504	495	497	501	505	512		500
Egg production² - million eggs													
2000	12.2	11.1	12.8	12.5	12.6	11.8	12.2	12.0	11.0	11.3	11.3	11.7	142.9
2001	11.7	10.3	11.5	11.4	11.3	10.9	10.9	10.4	9.8	9.7	9.8	10.3	129.4
2002	10.0	9.0	10.3	10.1	9.9	9.6	10.0	9.6	9.1	9.8	9.8	10.0	117.5
2003	10.2	9.0	10.0	10.0	9.8	9.3	9.7	10.0	9.7	9.9	9.6	9.7	117.2
2004	9.7	9.3	10.5	10.3	10.2	9.7	10.0	10.0	9.5	9.9	9.7		118.5
Average farm price³ - cents per dozen													
2000	89.5	91.0	90.5	90.5	91.5	88.5	90.0	88.0	86.5	85.5	86.5	88.0	89.0
2001	89.0	89.0	89.5	88.5	88.5	89.5	89.5	90.0	90.0	90.5	91.0	91.0	89.4
2002	91.5	91.5	90.5	91.0	89.5	89.5	90.0	90.0	88.5	90.0	92.0	93.0	90.4
2003	94.0	94.5	95.5	97.5	98.5	97.5	97.0	97.5	94.5	96.0	99.5	101.5	96.2
2004	106.5	110.0	113.5	115.0	114.0	110.0	109.0	107.5	105.5	103.0	100.0		108.0

¹ Annual data are for the 12-month period, December of the previous year through November of the following year.

² Sum of monthly estimates may not add to annual total due to rounding.

³ Equivalent delivered processing plant.

CHICKENS: Production and Average Number of Layers, State of Hawaii, 1970-2004

USDA, NASS, Hawaii Field Office

EQUINE, GOATS, HONEY, SHEEP

EQUINE: January 1 inventory and number sold, State of Hawaii, 1992-2002

Year	Inventory	Number sold
<i>1,000 head</i>		
1992	4.0	.2
1997	5.1	.2
2002	4.6	.3

Data from Census of Agriculture. Data just for on farm equine, excludes non-farm equine.

GOATS: January 1 inventory and number sold, State of Hawaii, 1992-2002

Year	Inventory	Number sold
<i>1,000 head</i>		
1992	5.0	3.0
1997	3.3	3.6
2002	5.4	4.2

Data from Census of Agriculture.

HONEY: Number of operations, colonies, honey and beeswax production, price, and value, State of Hawaii, 2000-2004

Year	Operations	Number of colonies	Yield per colony (honey)	Production		Average price ¹		Value of production	
				Honey (extracted)	Beeswax	Honey (extracted)	Beeswax	Honey (extracted)	Beeswax
	<i>Number</i>	<i>Thousands</i>	<i>Pounds</i>	<i>----- 1,000 pounds -----</i>		<i>----- Cents per pound -----</i>		<i>----- 1,000 dollars -----</i>	
2000	33	7	112	784	8	82	200	643	16
2001	30	8	87	696	6	87	233	606	14
2002	30	7	136	952	15	111	193	1,057	29
2003	29	7	114	798	11	145	182	1,157	20
2004	31	8	96	768	11	141	182	1,083	20

¹ Average of unprocessed bulk and processed packaged honey sold at wholesale and processed packaged honey sold at retail by farmers.

SHEEP AND LAMBS: January 1 inventory by class, State of Hawaii, 2001-2005

Year	All sheep and lambs	Breeding				Market			Lamb crop
		Total	Ewes 1 year +	Rams 1 year +	Replacement lambs	Total	Lambs	Sheep	
1,000 head									
2001	20	13	7	3	3	7	5	2	5
2002	20	14	6	3	5	6	4	2	5
2003	20	13	6	3	4	7	4	3	5
2004	20	13	6	3	4	7	5	2	5
2005 ¹									

¹ Data not shown to avoid disclosure of individual operations.

- AGRICULTURAL LABOR
- AGRICULTURAL THEFT AND/OR VANDALISM
- AQUACULTURE



LABOR

AGRICULTURAL LABOR: Workers on farms, annual and quarterly averages, State of Hawaii, 2000-2004 ¹

Year	Total farm employment			Hired workers by type of farm		
	Self-employed farm operators	Unpaid workers ²	Hired workers ³	Sugar	Pineapple	Other
2000	3,100	1,000	7,800	1,000	1,200	5,600
2001	3,300	1,100	7,400	800	1,200	5,500
2002	⁴ 3,000	⁴ 1,100	7,500	900	1,300	5,400
2003	NA	NA	7,300	700	1,200	5,300
2004	NA	NA	7,400	700	1,200	5,500
January	NA	NA	7,000	650	1,150	5,200
April	NA	NA	7,300	750	1,150	5,400
July	NA	NA	7,400	750	1,300	5,350
October	NA	NA	7,800	700	1,200	5,900

NA = Not available. Beginning July 2002, data series discontinued.

¹ Averages are based on data collected from the January, April, July, and October surveys.

² Includes family members and others working 15 or more hours per week.

³ Sum of hired workers by type of farm may not add to hired workers total due to rounding.

⁴ Beginning July 2002, estimates for self-employed and unpaid workers have been discontinued due to a change in the national labor statistics program.

AGRICULTURAL LABOR: Annual average number of workers on farms, by counties, 2000-2004 ¹

Year	Self-employed farm operators	Unpaid workers ²	Hired workers	Year	Self-employed farm operators	Unpaid workers ²	Hired workers
Counties:							
Hawaii				Kauai			
2000	1,800	550	2,700	2000	300	50	950
2001	1,950	550	2,650	2001	350	150	650
2002	³ 1,700	³ 600	2,450	2002	³ 250	³ 100	750
2003	NA	NA	2,750	2003	NA	NA	750
2004	NA	NA	2,700	2004	NA	NA	650
Honolulu				Maui			
2000	500	200	2,200	2000	500	150	2,000
2001	550	250	2,300	2001	500	150	1,800
2002	³ 550	³ 250	2,100	2002	³ 500	³ 150	2,250
2003	NA	NA	2,150	2003	NA	NA	1,650
2004	NA	NA	2,200	2004	NA	NA	1,850

NA = Not available. Beginning July 2002, data series discontinued.

¹ Averages are based on data collected from the January, April, July, and October surveys.

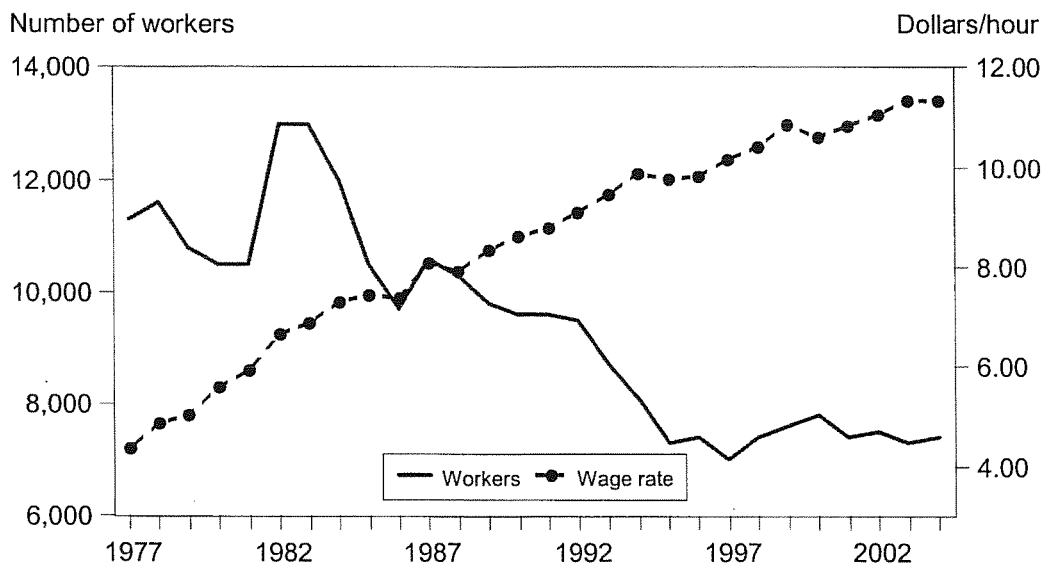
² Includes family members and others working 15 or more hours per week.

³ Beginning July 2002, estimates for self-employed and unpaid workers have been discontinued due to a change in the national labor statistics program.

AGRICULTURAL LABOR: Wage rates by type of work, annual and quarterly averages, State of Hawaii, 2000-2004

Year	Type of work performed			
	All farms		Farms with 1-9 workers	
	Field/livestock	All hired workers	Field/livestock	All hired workers
<i>Dollars per hour</i>				
2000	9.05	10.62	7.68	8.59
2001	9.29	10.83	8.15	8.70
2002	9.42	11.07	8.26	9.66
2003	9.60	11.33	8.52	9.62
2004	9.75	11.34	8.99	10.29
January	9.39	11.11	8.28	8.94
April	9.66	11.26	9.12	10.68
July	9.90	11.46	9.05	11.21
October	10.01	11.52	9.45	10.50

Hired Work Force and Average Wage Rate, State of Hawaii, 1977-2004



Number of workers is average of January, April, July, and October surveys, except 1981 January and April, 1982-83 July and 1984 July and October.

USDA, NASS, Hawaii Field Office

HAWAII AGRICULTURAL THEFT AND/OR VANDALISM

The Hawaii Field Office of the USDA's National Agricultural Statistics Service conducted a special survey of Hawaii's farmers on their exposure to agricultural theft and/or vandalism. The total value of theft and/or vandalism losses, as well as security costs, from Hawaii farms is estimated at \$11.4 million or 9% of the 2004 Hawaii net farm income of \$122 million estimated by USDA, Economic Research Service. Total theft of farm commodities, materials, equipment, and other property is pegged at \$1.9 million. Statewide vandalism cost to farms in Hawaii totaled \$2.0 million. Total security costs to prevent theft and/or vandalism totaled \$7.4 million. A special note of acknowledgment goes to the Hawaii Farm Bureau Federation (HFBF). This survey was conducted with funds from the State of Hawaii, Department of Agriculture and co-sponsored by the HFBF.

Theft and/or vandalism losses and security measure costs, by County, 2004

County	Losses		Security measure costs	Total
	Theft	Vandalism ¹		
1,000 dollars				
Hawaii	634	192	3,119	3,945
Honolulu	798	568	2,553	3,919
Kauai	185	99	893	1,177
Maui	329	1,160	835	2,324
Total	1,946	2,019	7,400	11,365

¹ A large vandalism event occurred during 2004 and was reported by one of our respondents. We consider this event a statistical aberration. We have omitted this event and summarized the remaining data to acquire what we consider a truer picture of agricultural vandalism for the State of Hawaii.

Theft by category, State of Hawaii, 2004

Type of theft	Number of incidents	Amount of loss
<i>1,000 dollars</i>		
Crop	2,900	562
Livestock	284	262
Chemical/Fertilizer	127	55
Machinery/Equipment	608	839
Other Property	820	228
Total	4,739	1,946

Vandalism by category, State of Hawaii, 2004

Type of theft	Number of incidents	Amount of loss
<i>1,000 dollars</i>		
Crop	263	1,026
Livestock	61	299
Chemical/Fertilizer	23	4
Machinery/Equipment	169	465
Other Property	637	225
Total	1,153	2,019

AQUACULTURE: Number of operations, production, and value, by counties, 2000-2004

Year	Number of operations	Production			Value				
		Shellfish ¹	Finfish	Algae	Shellfish	Finfish	Algae	Other ²	Total
----- 1,000 pounds ----- 1,000 dollars -----									
State									
2000	85	1,190	440	1,268	7,677	2,302	8,447	3,744	22,170
2001	80	1,166	467	--	7,464	2,404	9,684	2,648	22,200
2002	70	1,378	542	--	8,212	2,683	10,505	3,780	25,180
2003	85	1,312	397	--	9,719	1,740	11,848	4,343	27,650
2004	100	956	484	--	8,326	1,975	12,602	5,197	28,100
Counties:									
Hawaii									
2000	37	450	3	1,035	3,571	3	7,953	3	16,009
2001	33	425	3	--	3,061	3	9,021	3	16,198
2002	26	269	3	--	3,050	3	9,627	3	17,329
2003	31	572	3	--	5,508	3	10,923	3	19,639
2004	39	450	3	--	5,593	3	11,702	3	21,211
Honolulu									
2000	35	359	72	3	2,123	349	3	3	2,985
2001	32	304	95	--	1,843	491	3	3	2,815
2002	30	414	3	--	2,351	3	3	3	4,179
2003	40	349	3	--	2,096	3	3	3	4,674
2004	46	3	3	--	3	3	3	3	5,201
Kauai									
2000	4	3	3	--	3	3		3	3
2001	4	3	3	--	3	3		3	3
2002	4	3	3	--	3	3			3
2003	4	3	3	--	3			3	3
2004	4	3	3	--	3				3
Maui									
2000	9	3	3	3	3	3	3	3	3
2001	11	3	3	--	3	3	3	3	3
2002	10	3	3	--	3	3	3	3	3
2003	10	3	3	--	3	3	3	3	3
2004	11	3	3	--		3	3	3	3

-- Not applicable.

¹ Some shellfish products sold by pieces, pounds not given.² Non-food products: ornamental fish, seed stock, brood stock, and others. Items not sold by weight.³ Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

DEFINITION OF TERMS

AGRICULTURE entails all operations performed on a "farm" in connection with planting, growing, and harvesting of crops; raising and feeding of livestock and poultry, and management. All operations in connection with preparation of farm products for market where the preparation does not alter the form of the product and transportation to the first delivery point. In Hawaii, the first delivery point is defined as the processing plant or packinghouse door or other receivers' establishment for marketings on the island of production. For off-island marketings, the first delivery point is generally the shipper's warehouse.

FARM is a place with estimated (or expected) annual sales of agricultural products of at least \$1,000.

CROP PRODUCTION is the estimated amount of crop harvested and transferred at the first delivery point. Production estimates of vegetables and fruits include the quantity for fresh market and processing use.

ACREAGE IN CROP is the total acreage standing in a specific crop regardless of age or condition unless it has been declared abandoned by the operator.

ACREAGE HARVESTED is the total area harvested or partially harvested during the reporting period. A permanent or semi-permanent planting that was harvested for only a portion of the year is counted in its entirety. Acreage lost before maturity due to natural or economic factors is not included. Acreage harvested and planted repeatedly during the year is counted each time.

YIELD is the average production per acre of merchantable quality harvested and sold or utilized. This is derived by dividing total production by harvested acres.

LIVESTOCK OPERATION is defined as a place that has one or more head of the species on hand at any time during the year. It does not have to meet the definition of a farm.

LIVESTOCK PRODUCTION is the estimated amount of livestock and livestock products sold. This includes allowance for amounts used on farms where produced.

FARM PRICE is a computed price to value agricultural production which may or may not reflect the average price at which actual transfer of ownership took place but which is comparable with the definition of "agriculture". See "agriculture" for the definition of pricing point.

MARKET SUPPLY includes pounds of product sold in Hawaii to both Armed Forces and civilians (outshipments excluded). Direct inshipments to the Armed Forces are excluded.

SAMPLING METHODS AND ESTIMATION

The Hawaii Agricultural Statistics uses a variety of sampling techniques to produce current agricultural statistics about crops, livestock, prices, farm labor, and other information relating to the agricultural economy.

Data is collected, summarized and estimates are prepared. These estimates then pass through the Agricultural Statistics Board of the U. S. Department of Agriculture where, for major items, Hawaii estimates become part of National totals and enter the official data base for agriculture. National and State estimates are published according to a schedule set one year in advance.

The Hawaii Agricultural Statistics conducts many of its surveys by virtually complete **ENUMERATION** of certain parts of the population. This is unusual compared to procedures in other states but is feasible in Hawaii due to the relatively small size of certain categories of the farm universe or the extreme concentration of ownership.

LIST SAMPLING is a common means of data collection. Lists of farm operators are well suited for the low cost collection of information by mail. Supplementary information is included within the frame that allows the use of efficient stratified sample designs. A major disadvantage of this method is the constant change in the list frame which can never be perfect. In Hawaii, cattle, hog, macadamia nut and coffee surveys are examples of stratified list sample designs.

AREA FRAME SAMPLING can be used alone or in conjunction with the list frame. The frame consists of an aggregation of identifiable units of land or segments which may be sampled. The frame is complete and does not suffer the type of deterioration over time as does a list frame.

MULTIPLE-FRAME SAMPLING is the use of two frames. It takes advantage of the best attributes of the area frame and the list frame, produces unbiased estimates and allows measurement of the sampling error.

OBJECTIVE YIELD SURVEYS provide information from direct counts, measurements and weights of the crop made from small plots in a probability selection of sample fields.

ADMINISTRATIVE DATA is used in addition to producer surveys to establish final production and marketings. These include processor receipts, slaughter, vacuum cooler volume, and inspections. Unloads at Honolulu and wholesale prices as reported by the Market Analysis and News Branch, are an important check data source.

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National Agricultural Statistics Service (NASS) publications include weekly, monthly, quarterly and annual estimates of production, stocks, inventories, dispositions, utilization and prices of agricultural commodities and other items. The Census of Agriculture is published every five years covering all commodities by state, county and zip code. Other census reports include the Agricultural Atlas, Agricultural Economics & Land Ownership, Aquaculture, Census History, Congressional Tabulations, Farm & Ranch Irrigation, Horticulture Specialties and Outlying Areas.

Economic Research Service (ERS) Situation and Outlook Reports and periodicals analyze the current situation and forecast market conditions. ERS monographs offer economic analysis in the area of trade, production, rural development, farm inputs and other topics.

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REPORTS

Title and Description	Release date
CROPS	
AVOCADOS: Annual summary of acreage, yield, production, farm price, and value	May
BANANAS: Annual summary of acreage, yield, production, farm price, and value	May
COFFEE:	
- Preliminary season estimates of acreage, yield, production, farm price, and value	December
- Final season estimates of acreage, yield, production, farm price, and value	August
FRUITS:	
- Annual summary of fresh and processed fruit acreage, production, farm price, and value	September
- Annual summary of tropical specialty fruits acreage, production, and value	August
GINGER ROOT: Annual summary of acreage, yield, production, farm price, and value. Planting intentions for next season	August
GUAVAS: Annual summary of acreage, production, farm price, and value	June
HERBS: Annual summary of fresh production, farm price, and value	August
MACADAMIA NUTS:	
- Preliminary season estimates of acreage, yield, production, farm price, and value	January
- Final season estimates of acreage, yield, production, farm price, and value	July
PAPAYAS: Monthly report of acreage, utilization, and farm price	Mid-month
PINEAPPLES: Annual summary of acreage, production, farm price, and value	February
SEED CROP: Annual summary of acreage, outshipments of seed, and value	October
SUGARCANE: Estimates of acreage and production for all major U.S. producing areas	August-November
TARO:	
- Quarterly report of taro milled for poi	Jan., Apr., Jul., Oct.
- Annual summary of acreage, production, and farm prices for Chinese and wetland taro varieties	April
VEGETABLES:	
- Monthly report of acreage, sales, and farm price for selected major vegetables. Includes forecast of harvested acreage	Second week of month
- Annual summary of acreage, production, and value for all vegetables and melons	July
FLORICULTURE AND NURSERY PRODUCTS	
FLORICULTURE AND NURSERY PRODUCTS: Annual summary of acreage, production, and value	June
POINSETTIAS: Fall report of plant inventory and past year sales	October
LIVESTOCK	
LIVESTOCK REVIEW: Monthly hog and cattle slaughter, cattle outshipment, pasture conditions, number of milk cows and milk production, number of layers and egg production, and farm prices	Last week of month
CATTLE: Annual summary of inventory and calf crop as of January 1	February
HOGS: Annual summary of inventory and pig crop as of December 1	January
HONEY: Annual summary of colonies, production, yield, farm price, and value	February
OTHER PUBLICATIONS	
AQUACULTURE: Annual summary of operations, production, and value	September
CROP WEATHER: Weekly comments on weather and crop conditions. Rainfall data for selected stations	First working day of week
FARM LABOR: Quarterly report on number of workers by type and average wage rates	Feb., May, Aug., Nov.
STATISTICS OF HAWAII AGRICULTURE: A statistical summary of the State's agricultural sector	October

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Aquaculture Development Program
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Honolulu, HI 96813
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(808) 328-2411

Hawaii Coffee Association
P.O. Box 168
Kealahou, HI 96750
(808) 328-9120

CROP IMPROVEMENT

Hawaii Crop Improvement Association
P.O. Box 645
Kihei, HI 96753
(808) 579-4074

EGG

Hawaii Egg Producers Association
C/O 850 Davies Pacific Center
841 Bishop St. Suite 850
Honolulu, HI 96813
(808) 522-5133

FARM (General)

Hawaii Farm Bureau Federation
2343 Rose St.
Honolulu, HI 96819
(808) 848-2074

FLOWERS & NURSERY

Big Island Association of Nurserymen
P.O. Box 4365
Hilo, HI 96720

Big Island Dendrobium Growers
Association of Hawaii (BIDGA)
P.O. Box 4153
Hilo, HI 96720
(808) 966-7610

Dendrobium Orchid Growers
Association of Hawaii (DOGAH)
P.O. Box 1324
Wahiawa, HI 96786
(808) 259-6344

Hawaii Association of Nurserymen
1833 Kalakaua Ave Suite 211
Honolulu, HI 96815
(808) 951-0055

Hawaii Export Nursery Association
P.O. Box 11120
Hilo, HI 96721
(808) 969-2088

Hawaii Florists and Shippers Association
P.O. Box 5640
Hilo, HI 96720
(808) 959-0621

Hawaii Landscape & Irrigation
Contractors Association
1833 Kalakaua Ave Suite 211
Honolulu, HI 96815
(808) 951-0055

Hawaii Orchid Growers Association
(HOGA)
P.O. Box 2152
Keaau, HI 96749
(808) 968-8898

Hawaii Tropical Flower Council
P.O. Box 4306
Hilo, HI 96720

INDUSTRY ASSOCIATIONS - Continued

FLOWERS & NURSERY - Continued

Hawaii Tropical Flowers & Foliage
Association
41-969 Mahiku Pl.
Waimanalo, HI 96795
(808) 259-7826

Hawaii Turfgrass Association
1833 Kalakaua Ave. Suite 211
Honolulu, HI 96815
(808) 951-0055

Landscape Industry Council of Hawaii
P.O. Box 22938
Honolulu, HI 96823
(808) 956-2150

Maui Flower Growers Association
P.O. Box 684
Hana, HI 96713
(800) 805-2758

Protea Growers Association of Hawaii
P.O. Box 425
Kula, HI 96790
(808) 878-8887

West Hawaii Orchid Growers
Association (WHOGA)
P.O. Box 1540
Kailua-Kona, HI 96745
(808) 329-8455

FOREST

Hawaii Forest Industry Association
P.O. Box 10216
Hilo, HI 96721
(808) 933-9411

MACADAMIA NUT

Hawaii Macadamia Nut Association
P.O. Box 4983
Hilo, HI 96720
(808) 969-8033

MILK

Fresh Milk Industry of Hawaii
P.O. Box 190
Hawi, HI 96719
(808) 889-5838

ONION

Maui Onion Growers Association
P.O. Box 148
Kula, HI 96790
(808) 878-2917

ORGANIC PRODUCE

Hawaii Organic Farmers Association
P.O. Box 6863
Hilo, HI 96720
(808) 969-7789
Toll Free (877) 674-4632

PAPAYA

Hawaii Papaya Industry Association
P.O. Box 6959
Hilo, HI 96720
(808) 969-1160

PINEAPPLE

Pineapple Growers Association of
Hawaii
1116 Whitmore Ave.
Wahiawa, HI 96786
(808) 621-1221

PORK

Hawaii Pork Industry Association
C/O Hawaii Food Products
94-403 Ukee St.
Waipahu, HI 96797
(808) 676-9100

TARO

Kauai Taro Growers Association
P.O. Box 427
Hanalei, HI 96714
(808) 826-6202

TROPICAL FRUITS

Hawaii Tropical Fruit Growers
Association
P.O. Box 1582
Hilo, HI 96721
(808) 966-6444

VEGETABLE

Maui Farmer's Cooperative Exchange
970 B Lower Main St.
Wailuku, HI 96793
(808) 242-9767

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- Floriculture: Dendrobium orchid, courtesy USDA, NASS, Hawaii Field Office, page 35.
- Fruits: Rambutan, courtesy of the Market Development Branch, Hawaii Department of Agriculture, page 37.
- Vegetables: Vegetable harvest (head cabbage), Aloun Farms, central Oahu, courtesy of the Market Development Branch, Hawaii Department of Agriculture, page 48.
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