

STATISTICS OF HAWAII AGRICULTURE 2003



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March 2005

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!

As you review the Statistics of Hawaii Agriculture, you will gain a greater appreciation of the vital role this industry plays in our state.

Agriculture has a long history of providing jobs for our residents, stimulating economic growth and creating open spaces that preserve the beauty of our islands. Today, more than 5,000 farms and ranches operate in Hawai'i, providing a wide range of locally grown and raised food products.

This booklet points out that Hawai'i agriculture generated farm-level revenues of \$553 million in 2003 - the highest level since 1990. Diversified agriculture contributed a record \$385 million of that total. You will also see throughout this booklet that the list of Hawai'i commodities is expanding, as are markets for our home-grown products. Moreover, new technologies and exciting opportunities are emerging every day.

On behalf of the people of Hawai'i, I applaud the efforts of our hard-working farmers and ranchers as they continue to meet the agricultural needs of our state, nation and world.



Aloha,

LINDA LINGLE



State of Hawaii
DEPARTMENT OF AGRICULTURE
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Agriculture in Hawaii continues to evolve as it responds to the changes and challenges arising from within our state, nation and world. The Hawaii Department of Agriculture is committed to creating new opportunities for Hawaii's agriculture and we are ever mindful that expansion of our agriculture industry in this global economy requires innovation as well as collaboration.

Hawaii's diversified agriculture is stronger than ever. Farmers are introducing new varieties of traditional crops, as well as introducing entirely new crops that strengthen our state's diversified agriculture industry. We recognize export enhancement as a critical element toward the expansion of our local agriculture and have emphasized research and innovative marketing strategies to bolster Hawaii's reputation for quality agricultural products. Hawaii has also made great strides in pest management, which have had a remarkable impact on reducing losses to farmers and increasing productivity per acre.

In addition, great effort has been focused on collaboration with state and federal agencies, research organizations, and the various industries that make up agribusiness in Hawaii. This publication is a prime example of collaboration between state and federal employees working together to gather statistics to quantify Hawaii agriculture. Above all, we are grateful to Hawaii farmers for their cooperation in supplying information used in this publication and the many other reports that are released throughout the year. The Statistics of Hawaii Agriculture enables us to gauge the progress of agriculture and provides important benchmarks by which we may estimate impact and growth of our industry. For, it is the vitality of agriculture that will play an important role as a driver in Hawaii's economic future.



Aloha,

A handwritten signature in black ink, reading "Sandra Lee Kunimoto".

Sandra Lee Kunimoto
Chairperson, Hawaii Board of Agriculture





Hawaii Agricultural Statistics

"Fact Finding for Hawaii Agriculture"

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

A MESSAGE FROM THE STATE DIRECTOR

Most of the information in this publication is obtained by surveys of farmers and ranchers. We recognize the high frequency of our contact with farmers, and fortunately the vast majority understand that they are the very best source, often the only source, for the information required to meet specific data needs. The uses 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. Supplemental information is provided by grower organizations and agribusiness firms. Without their vital cooperation and support on the many surveys conducted throughout the year, good statistics and these reports would not be possible. Several other state and federal agencies also contribute toward development of these statistics. We wish to express our appreciation to all the farmers and organizations who have so willingly and faithfully provided answers to our surveys.

I am very fortunate to be associated with the excellent staff of HAS. Statisticians and support staff carefully collect, analyze, and publish the results of many surveys playing an important role in producing reliable, unbiased data for public and private decision makers.

Our corps of NASDA enumerators who are also on the "front line" interviewing farmers during peak survey periods deserve special recognition for their significant contribution.

We put all data published by this office on our web site at www.nass.usda.gov/hi. There you will find this book, our weekly crop-weather, numerous commodity releases issued throughout the year, as well as links to national and other state reports.

On a personal note, this will be my last issue. I am retiring after 37+ years with the National Agricultural Statistics Service, most of which has been in Hawaii. I wanted to take this opportunity to express my gratitude and appreciation to my many friends and associates in the agricultural community. It has been your support for the service we provide, and the relationships we have built over the years that have made my career so enjoyable and meaningful. That is what I will miss most. I hope I have served you well. Thank you.

Aloha,

Donald A. Martin
Director



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A Partnership Between the



Hawaii
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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 2003

Farm Revenue Grows By 2 Percent

Farm level revenue for 2003 totaled \$552.6 million, 2 percent greater than the previous year. Year-over-year gains for sugarcane and pineapple, along with a record high for diversified agriculture, lifted revenues to the highest level since 1991.

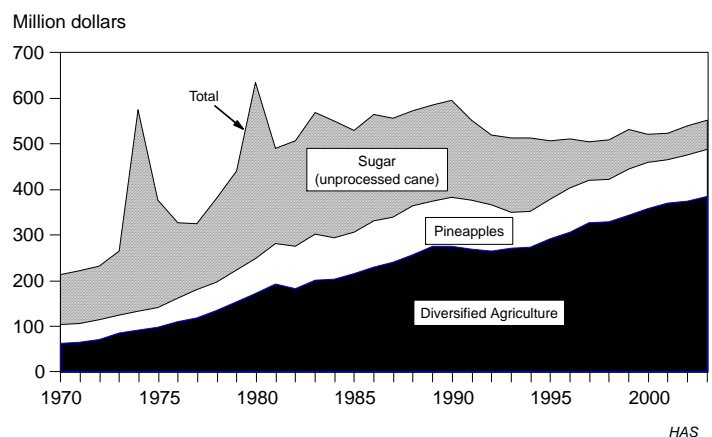
Highlighting gains for diversified agriculture were record years for flowers and nursery products, vegetables and melons, seed crops, aquaculture, and herbs. Among other commodities showing gains from 2002 were macadamia nuts, coffee, avocados, papayas, bananas, honey, and kava. Some of the commodities experiencing declines were guava, ginger root, taro, and milk. The aggregate total for diversified commodities (everything other than sugarcane and pineapple) was \$385.4 million, 3 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) increased to \$102.8 million, 2 percent above the previous year. Although production was slightly lower, a greater proportion of higher-valued fresh sales boosted overall revenue.

The equivalent farm value for sugarcane (does not include the processed value of raw sugar) was pegged at \$64.4 million, up fractionally from 2002.

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 a better understanding of the overall picture, refer to "Agriculture's Contribution to Hawaii's Economy-An Update" (CTAHR Economic Issues 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, 1970-2003



Dry Weather Across the Islands

Dry weather prevailed during most of 2003, with many weather stations reporting only half of normal annual rainfall. Except for scattered showers and tropical storm remnants, little relief was found for persistent drought conditions. Crops such as coffee, macadamia nuts, avocados, and tropical fruits, which rely on rainfall for irrigation, suffered during much of the year. Although irrigated crops fared better, some farms were adversely affected by water conservation restrictions. Pastures also suffered from the prolonged lack of soil moisture.

January-March

Lack of trade winds brought mostly fair weather with light showers to windward and mountain areas in early January. A passing storm to the north pushed a cold front through the State in mid-January bringing strong southerly winds and mostly fair conditions. Another storm in late January brought continued strong southerly winds, cool temperatures and scattered showers. Light-to-moderate showers resulted from a cold front in early February. The tail of a passing storm brought moderate-to-heavy showers to most areas of the State in mid-February, relieving dry conditions in many areas. Variable weather returned in late February with predominantly dry conditions. Brush fires broke out in dry areas of Hawaii County. Dry weather prevailed across the islands through March though isolated showers, sometimes heavy, occurred periodically. By the end of the first quarter, all of the primary weather stations used for our weekly Crop Weather release (Kamuela, Kealahou, Pahoa, Hana, Kula, Kahuku, Waianae, and Omao) were below average rainfall for the year. Most were less than half normal.

April-June

A storm system brought variable weather to Hawaii 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 but most areas continued dry through early May. Sunny and warm conditions with light showers occurred in most areas. Variable winds and warm, dry conditions prevailed across the islands in mid-May. Light-to-moderate trade winds brought generally fair, dry weather to the State in late May. By the end of May, heavy irrigation of crops was reported as necessary in all areas to maintain crop progress. Hot, dry weather continued into early June. A high pressure system in mid-June produced moderate trade winds with showers in upper elevations and windward areas. Maui officials called for voluntary water restrictions. Sunny, warm and dry conditions prevailed through the end of June. All eight of the weekly crop weather stations were below average rainfall through the end of June, most were less than half of the normal rainfall. Omao was the only station higher than normal for the April-June time period.

July-September

July started out with dry trade winds across the islands and limited showers on the windward areas. Parched conditions continued into mid-July. Windward areas received some showers which were heavy at times. Crops with adequate showers or irrigation progressed well. July ended with continued dry conditions in many areas with isolated showers in windward areas. Brisk trade winds and dry conditions prevailed in early August. Windward areas received some isolated heavy showers. A high-pressure system in mid-August brought showers to windward areas. Weather patterns remained unchanged through the end of August. Despite the passing of Tropical Storm

Jimena in early September, weather conditions remained generally dry with normal trade winds. Scattered showers were confined to windward and mountain areas. Warm, dry conditions prevailed at mid-month with light trade winds. September ended with warm southerly winds and isolated showers. All eight of the crop weather stations were below normal rainfall as of the end of September. Kamuela was the only station with above normal rainfall for the July-September period.

October-December

A storm system in early October brought southerly winds, high temperatures and humidity to the State. Scattered showers were limited to upper elevations. Trade winds returned by mid-October with light-to-moderate showers in the windward and mountain regions. Light, southeasterly winds returned by the end of the month bringing humidity and high temperatures. Rainfall was mostly confined to mountain and windward areas. Trade winds predominated in early November. Beneficial showers fell in some areas. Mid-November brought brisk trade winds and some rainfall. A storm system north of the State brought strong trade winds and scattered showers which were occasionally heavy. Many areas received heavy-to-moderate rainfall in early December. A high pressure system in mid-December brought trade winds and light showers. Rainfall was light-to-moderate in late December with moderate trade winds. All of the crop weather stations ended the year at below normal rainfall. Five of the stations were below 60 percent of normal. All of the stations were below normal for the October-December period.

WEATHER: Precipitation, selected stations, State of Hawaii, 2003

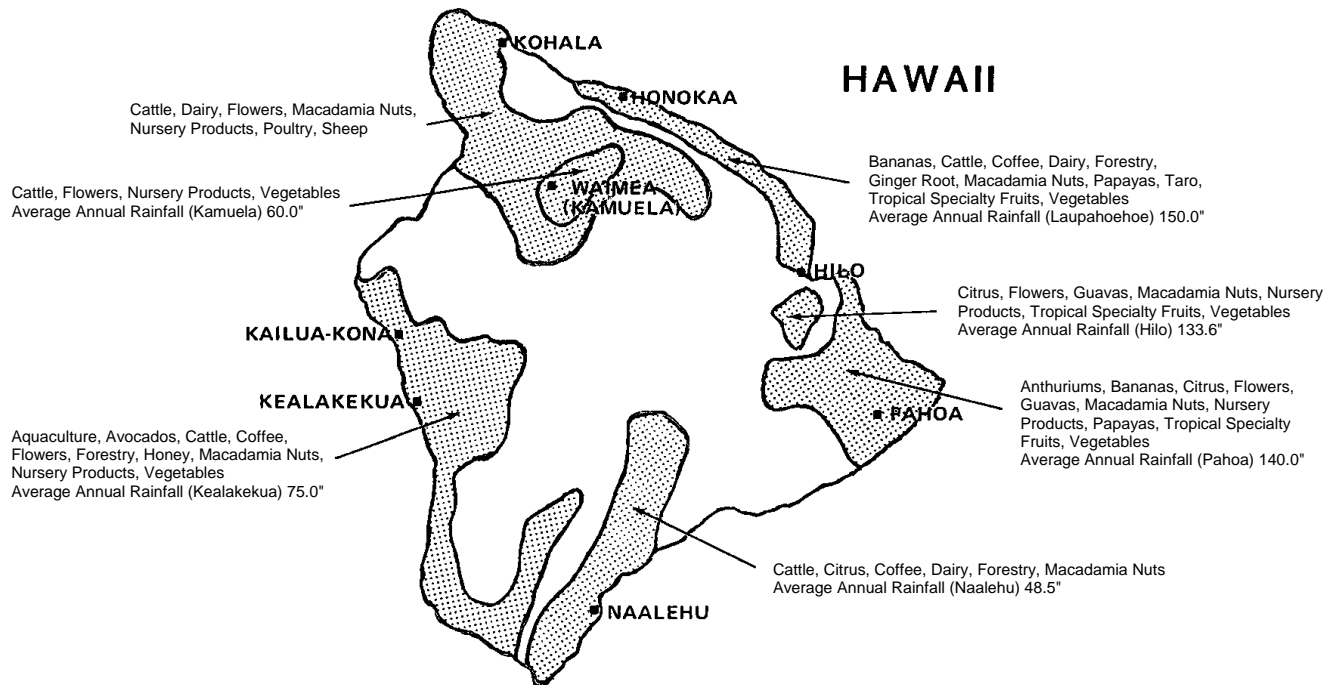
STATIONS	Year & normal	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual	% Annual normal
ISLAND OF HAWAII															
Hilo International Airport	Normal	9.1	12.9	13.7	12.9	10.0	6.6	9.5	10.9	7.4	11.0	13.8	15.8	133.6	
	2003	1.24	5.44	1.50	14.13	4.65	5.84	10.24	8.28	7.76	3.88	18.32	10.04	91.32	68.4
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	
	2003	2.52	8.85	1.20	2.01	1.83	2.36	5.07	2.97	2.04	.36	2.23	3.28	34.72	57.9
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	
	2003	1.67	.70	1.87	1.81	.16	3.01	2.10	2.89	5.78	2.83	2.94	2.31	28.07	37.4
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	
	2003	4.10	8.53	1.18	7.74	4.37	4.51	9.15	12.69	4.34	1.97	13.10	13.40	85.08	56.7
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	
	2003	1.23	2.55	1.68	2.01	.03	1.62	1.48	.10	3.83	1.41	.80	4.82	21.56	39.2
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	
	2003	1.68	5.81	2.05	10.02	5.17	5.58	11.95	10.20	6.36	4.49	13.25	13.31	89.87	64.2
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	
	2003	3.47	--	8.06	3.75	4.03	1.64	1.68	1.51	2.22	4.00	3.74	3.95	38.05	76.1
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	
	2003	7.63	11.10	3.96	10.50	4.26	6.60	4.64	4.26	1.19	7.06	3.94	11.49	76.63	69.7
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	
	2003	2.90	4.33	5.80	7.11	3.28	3.38	3.29	3.33	3.43	5.63	1.40	4.27	48.15	80.3
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	
	2003	--	9.65	8.11	6.64	1.28	--	--	--	--	7.55	6.40	--	39.63	47.6
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	
	2003	2.86	2.12	2.22	.68	.01	1.63	.40	2.15	.75	1.15	1.23	5.25	20.45	68.2
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	
	2003	5.99	8.42	2.62	.02	.06	--	--	--	.42	.18	1.63	4.36	23.70	84.6
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	
	2003	4.39	3.35	2.27	2.18	1.22	1.30	3.31	.88	3.14	2.34	5.26	4.69	34.33	76.3
Waialua (HI04) ¹	Normal	5.6	3.9	3.8	2.8	1.7	.9	1.3	.8	1.1	2.7	4.2	5.0	33.8	
	2003	4.19	--	--	--	--	--	--	--	--	--	--	--	--	--
Waianae (HI17)	Normal	3.8	2.3	2.5	1.6	.7	.3	.3	.7	.7	1.8	2.0	3.3	20.0	
	2003	2.04	.56	2.95	.55	0	.35	.41	.01	.43	.36	1.01	3.59	12.26	61.3
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	
	2003	3.22	3.26	5.66	1.84	.33	.61	.80	.41	.62	1.26	4.50	10.11	32.62	65.2

¹ Data series discontinued.

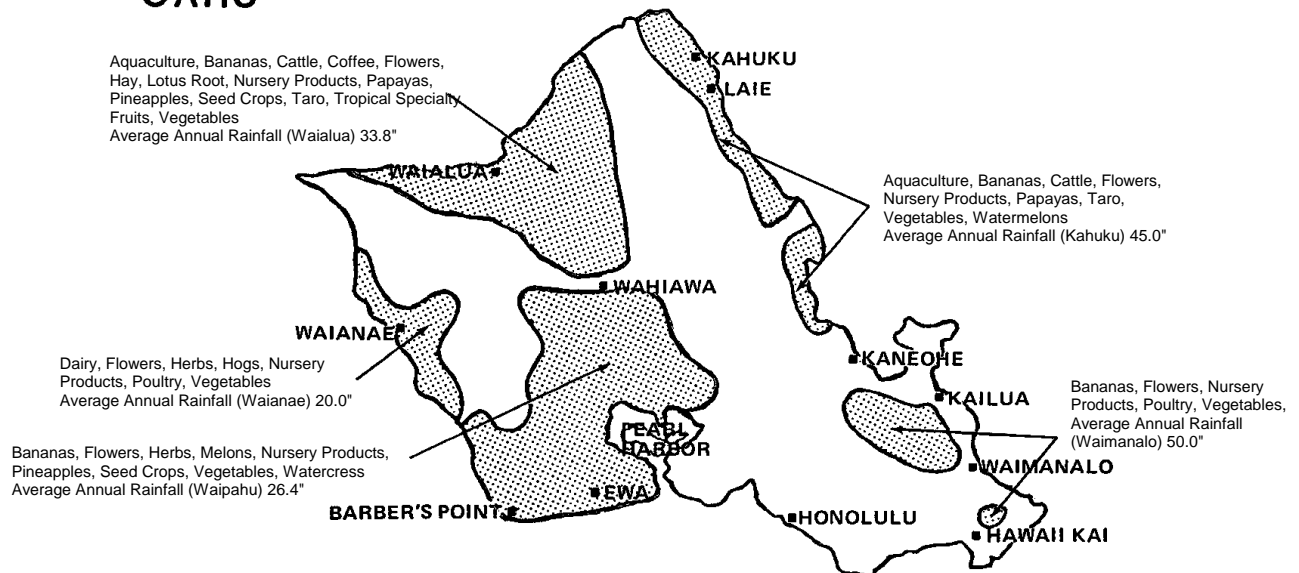
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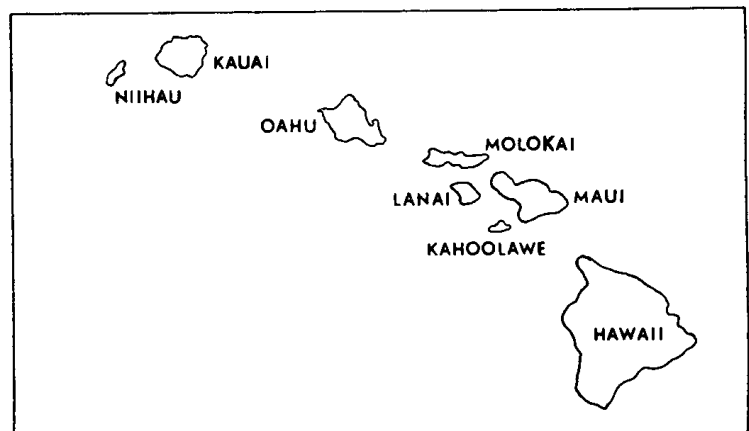
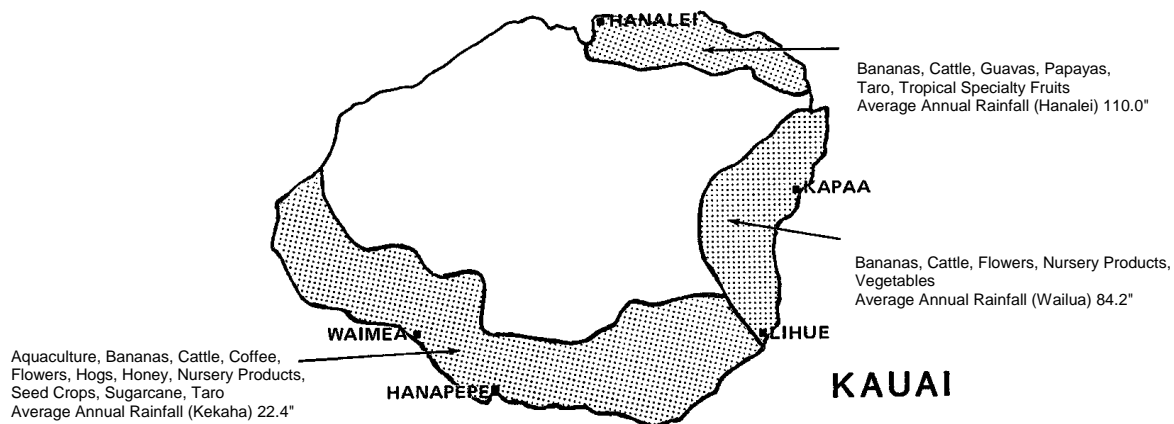
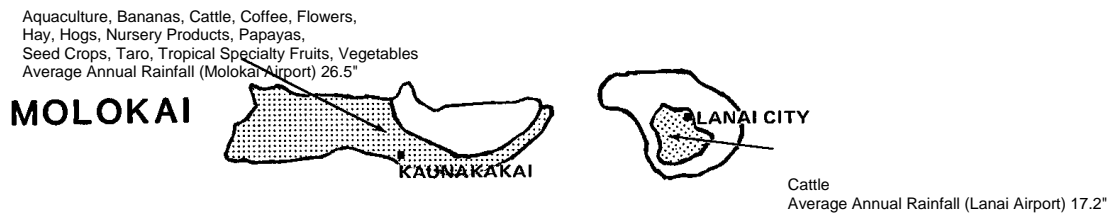
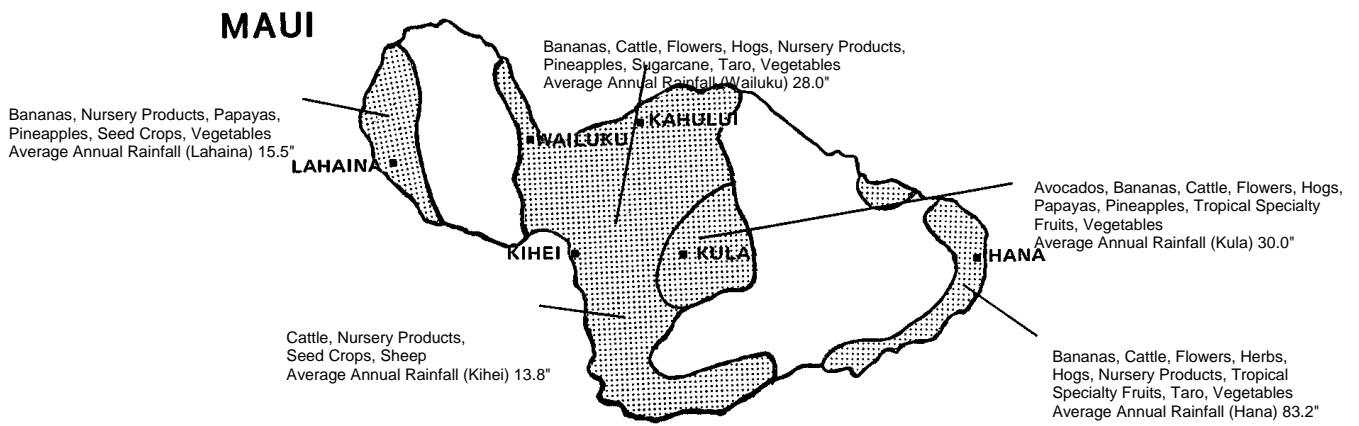
Source: U. S. Department of Commerce, National Oceanic and Atmospheric Administration. Most rainfall stations were selected from the National Weather Service's hydronet system of automated gages, and those data have not been quality controlled to date, and therefore are not certified by the National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

MAJOR AGRICULTURAL AREAS, STATE OF HAWAII, 2003



OAHU





SUMMARIES

Top 20 commodities, State of Hawaii, 2002-2003

Commodity ¹	Rank		Value of production	
	2002	2003	2002	2003
	--- Number ---		--- 1,000 dollars ---	
Pineapples (fresh equivalent)	1	1	100,616	102,849
Sugarcane (unprocessed)	2	2	64,300	64,400
Seed crops	3	3	48,145	50,470
Macadamia nuts	4	4	30,210	32,330
Coffee	5	5	23,250	24,070
Milk	6	6	22,467	21,449
Cattle	7	7	18,326	17,192
Papayas	8	8	11,924	13,069
Algae	9	9	10,505	11,848
Tomatoes	10	10	9,625	10,150
Eggs	11	11	8,852	9,396
Bananas	12	12	8,600	9,225
Palms (potted)	13	13	7,966	7,339
Dendrobium, pots	14	14	7,318	7,166
Anthuriums	18	15	4,720	5,794
Dracaena (potted)	15	16	5,604	5,585
Basil	17	17	4,750	4,960
Hogs	16	18	4,788	4,345
Ginger root	19	19	4,320	3,600
Dendrobium (sprays)	21	20	3,218	3,064

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

Farm values, State of Hawaii, 1984-2003

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Diversified agriculture ¹	Total
	1,000 dollars			
1984	256,200	89,928	204,389	550,517
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	102,849	385,392	552,641

¹ Aquaculture included beginning 1993.

Diversified agriculture ranked by value, State of Hawaii, 2002-2003

Commodity	Rank		Value of production			Percent of diversified agriculture	
	2002	2003	2002	2003	Year-to-year percent change	2002	2003
	--- Number ---		----- 1,000 dollars -----			----- Percent -----	
Flowers and nursery products	1	1	95,715	97,686	+2	25.6	25.3
Vegetables and melons ¹	2	2	61,659	64,173	+4	16.5	16.7
Seed crops	3	3	48,145	50,470	+5	12.8	13.1
Macadamia nuts	4	4	30,210	32,330	+7	8.1	8.4
Aquaculture	6	5	25,180	27,650	+10	6.7	7.2
Fruits (excluding pineapples)	5	6	25,267	26,819	+6	6.7	7.0
Coffee	7	7	23,250	24,070	+4	6.2	6.2
Milk	8	8	22,467	21,449	-5	6.0	5.6
Cattle	9	9	18,326	17,192	-6	4.9	4.5
Eggs	10	10	8,852	9,396	+6	2.4	2.4
Hogs	11	11	4,788	4,345	-9	1.3	1.1
Other livestock and crops			10,541	9,812	-7	2.8	2.5
Total			374,400	385,392	+3	100.0	100.0

¹ Includes ginger root and herbs.

SUMMARY: Acreage in crop and total farm acreage, by counties, 1999-2003

Year	Sugarcane	Pineapples ¹	Vegetables and melons ^{2 3}	Fruits (excluding pineapples)	Coffee	Macadamia nuts	All other crops ⁴	Total farm acreage ⁵
<i>1,000 acres</i>								
State ⁶								
1999	67.0	21.0	8.2	8.0	7.7	19.9	14.9	⁷ 1,420
2000	60.0	20.7	6.4	7.1	7.9	18.4	7.3	⁷ 1,380
2001	46.0	20.1	6.5	7.1	8.0	18.0	8.7	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
Counties:								
Hawaii								
1999	0	*	2.3	4.9	3.2	⁸	1.9	⁷ 860
2000	0	*	1.8	4.1	3.3	⁸	1.7	⁷ 850
2001	0	*	2.0	4.5	3.4	⁸	2.1	⁷ 840
2002	0	*	1.8	4.3	3.5	⁸	2.4	830
2003	0	*	1.6	4.1	3.6	⁸	2.5	820
Honolulu								
1999	0	11.9	4.3	1.8	⁸	⁸	10.4	80
2000	0	11.6	3.1	1.7	⁸	⁸	2.6	⁷ 70
2001	0	11.0	3.2	1.5	⁸	⁸	3.4	⁷ 70
2002	0	10.0	3.6	1.1	⁸	⁸	2.7	70
2003	0	10.1	3.4	1.0	⁸	⁸	2.8	70
Kauai								
1999	23.7	*	.2	1.0	⁸	⁸	1.1	⁷ 190
2000	23.1	*	.2	1.0	⁸	⁸	1.3	⁷ 180
2001	10.6	*	.1	.8	⁸	⁸	1.4	⁷ 170
2002	10.8	*	.3	.8	⁸	⁸	1.6	160
2003	11.1	*	.3	.8	⁸	⁸	1.9	150
Maui								
1999	43.3	9.1	1.4	.3	⁸	⁸	1.5	290
2000	36.9	9.1	1.3	.3	⁸	⁸	1.7	⁷ 280
2001	35.4	9.1	1.2	.3	⁸	⁸	1.8	⁷ 270
2002	36.7	9.1	1.1	.4	⁸	⁸	1.5	260
2003	36.7	5.9	1.1	.5	⁸	⁸	1.8	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 Revised.⁸ 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, 1999-2003

Year	Sugarcane	Pineapples ¹	Vegetables and melons ²	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Taro	Flowers and nursery products
State								
1999	4	15	1,020	1,373	650	750	190	765
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	795
Counties:								
Hawaii								
1999	0	5	600	805	635	³	100	355
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	375
Honolulu								
1999	0	2	230	174	³	³	12	225
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	210
Kauai								
1999	2	3	45	143	³	³	65	35
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	65
Maui								
1999	2	5	145	251	³	³	13	150
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	145

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.

SUMMARY: Number of livestock operations and total number of farms, by counties, 1999-2003

Year	Cattle ¹	Hogs	Milk	Eggs	Honey	Total (non-duplicated) ²
State						
1999	800	230	³ 45	³ 65	28	5,500
2000	800	230	³ 35	³ 70	33	5,500
2001	³ 750	230	³ 30	³ 75	30	³ 5,500
2002	750	210	30	80	30	5,500
2003	750	210	30	80	29	5,500
Counties:						
Hawaii						
1999	470	70	³ 25	³ 29	14	3,300
2000	470	70	³ 18	³ 32	17	3,300
2001	³ 440	70	³ 14	³ 35	14	³ 3,250
2002	440	60	14	37	16	3,250
2003	440	60	14	37	14	3,250
Honolulu						
1999	60	70	³ 8	15	⁴	900
2000	60	70	³ 6	15	⁴	900
2001	³ 50	70	³ 6	15	⁴	³ 850
2002	50	70	6	15	⁴	800
2003	50	70	6	15	4	800
Kauai						
1999	100	30	³ 6	³ 6	⁴ 14	500
2000	100	30	³ 5	³ 6	⁴ 16	500
2001	110	30	³ 4	³ 6	⁴ 16	³ 550
2002	120	30	4	8	⁴ 14	600
2003	120	30	4	8	4 15	600
Maui						
1999	170	60	³ 6	³ 15	⁴	800
2000	170	60	³ 6	³ 17	⁴	800
2001	³ 150	60	³ 6	³ 19	⁴	³ 850
2002	140	50	6	20	⁴	850
2003	140	50	6	20	4	850

¹ Includes beef, dairy, and dairy replacement operations.

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

³ Revised.

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

SUMMARIES

SUMMARY: Value of crop sales, by counties, 1999-2003 ¹

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables, ginger root, herbs, and melons ²	Fruits (excluding pineapples)	Coffee (parchment)
------	--------------------------------	-------------------------------------	--	-------------------------------------	-----------------------

1,000 dollars

State

1999	86,800	101,448	56,438	28,525	21,000
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	102,849	64,173	26,819	24,070

Counties:

Hawaii

1999	0	5	18,569	15,546	9,300
2000	0	5	17,910	17,522	15,200
2001	0	5	17,743	18,724	13,175
2002	0	5	13,823	17,792	15,990
2003	0	5	14,235	19,881	15,200

Honolulu

1999	0	73,123	27,419	8,534	5
2000	0	72,085	29,982	8,985	5
2001	0	69,222	32,601	7,538	5
2002	0	70,992	36,533	3,750	5
2003	0	73,023	37,213	3,748	5

Kauai

1999	26,600	5	931	3,389	5
2000	18,500	5	1,446	3,755	5
2001	12,900	5	1,574	3,007	5
2002	13,000	5	1,659	2,455	5
2003	13,500	5	2,495	1,739	5

Maui

1999	60,200	28,325	9,519	1,056	5
2000	43,700	29,445	9,821	1,102	5
2001	44,900	27,115	10,125	921	5
2002	51,300	29,624	9,644	1,270	5
2003	50,900	29,826	10,229	1,451	5

See footnotes at end of table.

Continued

SUMMARY: Value of crop sales, by counties, 1999-2003¹ -- Continued

Year	Macadamia nuts (in-shell)	Taro	Seed crops	Flowers and nursery products ³	Total crops ⁴
<i>1,000 dollars</i>					
State					
1999	37,855	3,604	30,500	75,725	443,111
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	453,200
2003	32,330	2,700	50,470	97,686	466,254
Counties:					
Hawaii					
1999	5	632	5	42,462	121,939
2000	5	506	5	47,499	128,161
2001	5	443	5	50,637	134,380
2002	5	415	5	49,870	128,261
2003	5	335	5	50,819	132,779
Honolulu					
1999	5	5	5	21,865	142,407
2000	5	5	5	24,001	145,784
2001	5	5	5	26,198	146,504
2002	5	5	5	32,106	153,719
2003	5	5	5	32,349	157,728
Kauai					
1999	5	2,236	5	1,547	53,390
2000	5	2,520	5	1,266	42,886
2001	5	2,258	5	1,864	38,292
2002	5	2,189	5	2,633	40,848
2003	5	1,760	5	3,203	45,102
Maui					
1999	5	5	5	9,851	125,375
2000	5	5	5	9,918	114,651
2001	5	5	5	9,898	118,262
2002	5	5	5	11,106	130,372
2003	5	5	5	11,315	130,644

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

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

³ Flowers, foliage, and nursery products.

⁴ 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.

⁵ 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, 1999-2003¹

Year	Cattle ²	Hogs ²	Milk	Eggs	Aquaculture	Total livestock and aquaculture ³	Total crops, livestock and aquaculture ⁴	Government payments ⁵
<i>1,000 dollars</i>								
State								
1999	16,806	5,072	31,270	10,803	18,102	87,983	531,094	820
2000	19,204	4,425	28,102	10,598	22,170	90,418	521,900	11,927
2001	18,007	4,514	26,546	9,640	22,200	86,943	524,381	3,860
2002	18,326	4,788	22,467	8,852	25,180	86,116	539,316	1,911
2003	17,192	4,345	21,449	9,396	27,650	86,387	552,641	1,448
Counties:								
Hawaii								
1999	12,363	569	6	6	13,377	35,908	157,847	NA
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	172,815	1,116
2003	13,811	440	6	6	19,639	46,880	179,659	NA
Honolulu								
1999	551	3,143	23,300	7,821	2,333	39,250	181,657	NA
2000	556	2,637	19,387	7,471	2,985	34,905	180,689	NA
2001	604	2,848	18,920	6,666	2,815	33,773	180,277	NA
2002	572	2,960	14,401	6,312	4,179	30,230	183,949	167
2003	203	2,594	13,502	6,789	4,674	29,275	187,003	NA
Kauai								
1999	1,027	466	6	6	6	6,341	59,731	NA
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	46,126	228
2003	912	414	6	6	6	4,128	49,230	NA
Maui								
1999	2,865	894	6	6	6	6,484	131,859	NA
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	136,426	400
2003	2,266	897	6	6	6	6,104	136,748	NA

NA = Not available.

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

² Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

³ Sum of individual commodities may not add to total. Includes sheep, wool, turkeys, horses, honey, beeswax, broilers, and chickens.

⁴ Total includes aquaculture beginning 1994.

⁵ 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.

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	.73	1966	1959
Avocados						
Harvested	Acres	330	1986	90	1975	1946
Production	1,000 lbs.	1,600	1982	400	1996	1946
Price ²	¢/lb.	62.0	2003	6.1	1959	1946
Bananas						
Harvested	Acres	1,550	2000	550	1977	1946
Production	1,000 lbs.	29,000	2000	4,470	1983	1946
Price ²	¢/lb.	43.0	2002	4.6	1946	1946
Cabbage, Head						
Harvested	Acres	740	1947	370	1971	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.	24,300	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	1,000 lbs.	58,000	1997	630	1946	1946
Price ²	¢/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	16,000	2003	1946
Production	1,000 tons	1,048	1955	315	2003	1950
Value (farm)	\$1,000	107,775	1991	29,700	1951	1950
Sugar ³						
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	2003	3.1	1949	1946
Tomatoes						
Harvested	Acres	600	1950	150	1972	1946
Production	1,000 lbs.	17,500	2003	3,300	1972	1946
Price ²	¢/lb.	65.0	1990	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	23,000	2003	1960
Production (lv. wgt.)	1,000 lbs.	13,159	1978	5,130	2003	1960
Price ²	\$/cwt.	84.70	2003	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.	96.2	2003	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

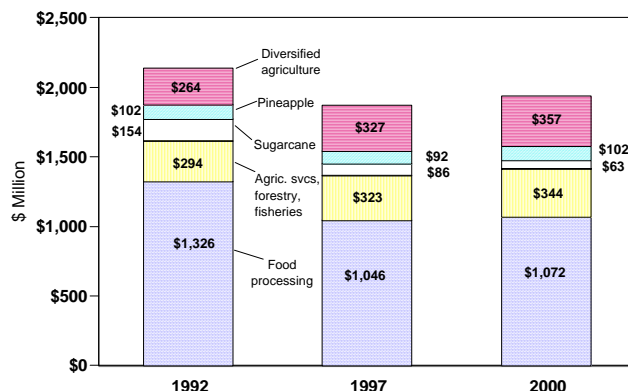
Employment (the number of full and part-time jobs) provides another good indicator in measuring the contribution of an industry to the economy. In 1992, agriculture contributed 4.2% of total employment in the state, but it declined slightly to 3.7% in 1997, before reversing the trend and rising to 3.8% 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, 1999-2003

	1999	2000	2001	2002	2003
<i>Thousand dollars</i>					
Farm assets	3,679,507	3,808,176	4,025,315	4,175,231	4,463,007
Farm debt ¹	244,695	254,462	265,216	276,628	282,687
Real estate	138,759	137,412	144,793	155,693	161,281
Nonreal estate	105,936	117,051	120,423	120,935	121,406
Equity	3,434,812	3,553,714	3,760,099	3,898,603	4,180,320
Ratio:					
Debt/equity	7.1	7.2	7.1	7.1	6.8
Debt/assets	6.7	6.7	6.6	6.6	6.3

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, 1999-2003

	1999	2000	2001	2002	2003
<i>Thousand dollars</i>					
Value of crop production	443,460	431,963	437,496	453,899	464,303
Value of livestock production	83,768	84,610	89,562	85,169	88,589
Services and forestry	35,872	38,946	41,090	43,919	46,758
Value of agricultural sector production ¹	563,100	555,519	568,147	582,988	599,650
less: Purchased inputs	192,671	196,426	206,532	209,200	214,074
Farm origin	42,719	43,991	50,511	53,268	54,493
Manufactured inputs	60,149	63,083	61,924	59,117	63,983
Other purchased inputs	89,803	89,352	94,097	96,815	95,598
plus: Net government transactions	(6,016)	4,780	(3,330)	(5,281)	(5,583)
Gross value added	364,413	363,873	358,285	368,506	379,993
less: Capital consumption	36,924	37,441	38,221	38,812	38,730
Net value added ¹	327,489	326,432	320,064	329,694	341,263
less: Payments to stakeholders	216,688	214,655	206,937	211,679	219,330
Employee compensation (total hired labor)	185,471	181,765	176,603	183,611	189,559
Net rent received by nonoperator landlords	11,059	11,818	11,093	10,698	11,356
Real estate and nonreal estate interest	20,158	21,072	19,241	17,370	18,415
Net farm income ¹	110,801	111,777	113,127	118,015	121,933

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.

2003 SUGAR AND SPECIALTY CROP HIGHLIGHTS

SUGAR

Sugar production for 2003 decreased 3 percent from the previous year to 261,000 tons of 96° raw sugar. A 7 percent decrease in acreage for harvest accounted for the lower production. Plantations were able to harvest 2.0 million tons of sugarcane from 19,900 acres, for an average yield of 102.0 tons of sugarcane per acre. Sugar prices during 2003 increased 3 percent to \$367 per ton of 96° raw sugar, this resulted in a total value of \$95.9 million for raw sugar, unchanged from 2002.

COFFEE

Statewide coffee production was estimated at 8.3 million pounds (parchment basis) for the 2003-2004 season, up 11 percent from last season's harvest of 7.5 million pounds. Coffee farmers received an average of \$2.90 per pound (parchment equivalent) during the 2003-2004 season, down 6 percent from last season. Coffee growers across the State generated \$24.1 million in farm sales (parchment basis), up 4 percent from the 2002-2003 season and the highest total in 5 seasons.

Hawaii County production totaled 4.0 million pounds (parchment basis) during the 2003-2004 season, down 2 percent from the previous season. Average yields declined 7 percent as dry conditions during crucial periods resulted in smaller beans and a larger than normal amount of quakers (defective coffee beans that fail to roast properly, remaining stubbornly light-colored).

Combined production from the counties of Kauai and Maui was expected to total 4.3 million pounds (parchment basis) for the 2003-2004 season, up 26 percent from the previous season. Most of the coffee fields in these counties are irrigated and did not suffer from the ill effects of the drought that the Hawaii County coffee farmers experienced. The alternate-bearing nature of the tree (which contributed to the 2002-2003 drop) and improved cultural practices were largely responsible for increased output during the 2003-2004 season.

MACADAMIA NUTS

Hawaii's 2003-2004 macadamia nut harvest is estimated at 53.0 million pounds net, wet-in-shell, unchanged from last season's supply. Total and harvested acreage remained the same as 2002-2003 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 2,980 pounds per acre net, wet in-shell, unchanged from the previous season.

Weather for the season had a mixed effect on the orchards and nuts. Rainy weather during late 2003 and early 2004, benefitted orchards in drier areas. In February, a down burst of wind knocked over trees in the South Kona area. Immature nuts continued to rank first with 26 percent of the losses. However, this season a higher incidence of moldy rotten nuts at 25 percent and tropical nut borer at 11 percent were reported.

Farm prices for 2003-2004 averaged 61.0 cents per pound, 4.0 cents more than last season and the highest since 1999-2000. Industry sources attribute the boost to a smaller world supply of macadamia nuts. The farm value of macadamia nuts totaled \$32.3 million up 7 percent from last season. The average moisture content for this crop season was 20.2 percent compared with 20.4 for the 2002-2003 crop.

COFFEE: Number of farms, acreage, yield, marketings, price, and value, by counties, 1999/2000-2003/2004 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										
1999-2000	650	7,700	6,400	1.6	10,000			210.0	21,000	8,100
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
Counties:										
Hawaii										
1999-2000	635	3,200	2,400	1.2	3,000	70.0	360.0	310.0	9,300	2,400
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
Honolulu/Kauai/Maui⁵										
1999-2000	15	4,500	4,000	1.8	7,000			167.0	11,700	5,700
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

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 6.0 million pounds during the 2003-2004 season, unchanged 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 2003-2004 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. As with 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 90.0 cents per pound during the 2003-2004 season, up 50 percent from the previous season and the highest return in 23 seasons. A combination of relatively low local production and increased sales of organic ginger root contributed to the rise in farm prices. Record high prices for imported ginger root also had a major impact.

GINGER ROOT: Acreage, yield, production, price, and value, State of Hawaii, 1999/2000-2003/2004 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
1999-2000	270	50.0	13,500	66.0	8,910
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

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

GINGER ROOT: U.S. imports, 1999-2003

Year	Unground (including fresh)	Ground	Sweet	Candied	Total ¹
					1,000 pounds
1999	33,679	669	2,059	2,000	38,406
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

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, 2000-2003

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

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.

HERBS, SEED CROPS

FRESH HERBS: Production, price, and value, State of Hawaii, 1999-2003

Year	Basil			Parsley	Chinese parsley (Cilantro)	Other herbs ¹	All herbs
	Sweet (Italian)	Asian	Total				
Production - 1,000 pounds							
1999	1,500	600	2,100	190	90	520	2,900
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
Farm price - dollars per pound							
1999	2.00	.70		2.00	2.15	2.70	
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	
Farm value - 1,000 dollars							
1999	3,000	420	3,420	380	194	1,404	5,398
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

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, 1999-2003

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
	<i>Number</i>	<i>Acres</i>				<i>1,000 pounds</i>	<i>1,000 dollars</i>		
1999-00	8	2,450	1,045	1,300	105	3,500	30,500	28,700	1,800
2000-01	7	2,900	655	2,130	115	4,800	37,500	36,400	1,100
2001-02	7	3,100	730	2,240	130	5,600	45,000	43,900	1,100
2002-03	7	3,900	1,210	2,580	110	5,850	48,145	47,060	1,085
2003-04	7	4,080	1,385	2,700	115	6,420	50,470	49,235	1,235

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, 1999-2003¹

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								
1999	4	67.0	35.4	81.7	10.38	2,892	30.00	86.8
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
Counties:								
Kauai								
1999	2	23.7	13.9	66.0	8.08	917	29.00	26.6
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
Maui								
1999	2	43.3	21.5	91.9	11.86	1,975	30.50	60.2
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

¹ Primary data source, Hawaii Agricultural Research Center.

² At end of year.

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

⁴ Value 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, 1999-2003 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							
1999	368	137	352	13.30	129.5	1.8	131.3
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
Counties:							
Kauai							
1999	113	38	351	13.70	39.7	.5	40.2
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
Maui							
1999	255	99	352	13.20	89.8	1.3	91.1
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

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.

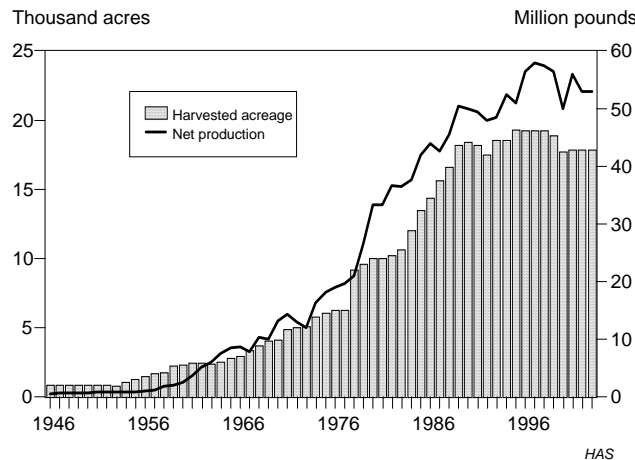
MACADAMIA NUTS

MACADAMIA NUTS: Number of farms, acreage, yield, production, moisture, price, and value, State of Hawaii, 1999/2000-2003/2004 crop years

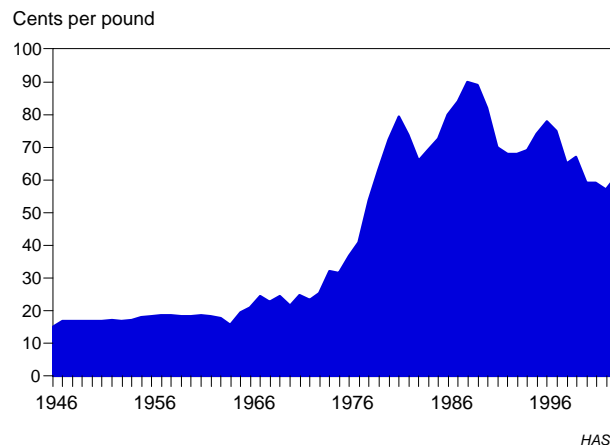
Crop year ¹	Farms	Acreage		Yield per acre ³	Production ⁴		Average moisture		Farm prices ⁴		Farm value ⁸
		In crop	Harvested ²		Gross ⁵	Net ⁶	Entire crop	Purchases only	Gross ⁷	Net	
	<i>Number</i>	<i>----- Acres -----</i>			<i>---- 1,000 pounds ----</i>		<i>----- Percent -----</i>		<i>Cents per ----- pound -----</i>		<i>1,000 dollars</i>
1999-2000	750	19,900	18,900	3.0	64,000	56,500	19.3	19.3	59.1	67.0	37,855
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

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, 1946-2003 Seasons



MACADAMIA NUTS: Net Wet-in-shell Farm Prices, State of Hawaii, 1946-2003 Seasons



FLORICULTURE AND NURSERY PRODUCTS

Grower sales of Hawaii's flower and nursery products totaled a record \$97.7 million in 2003. The 2003 wholesale value was 2 percent higher than the \$95.7 million value for 2002. Cut flowers and orchids were categories which registered increases in 2003. Grower sales for some commodities, already slumping from the aftereffects of west coast dock closures in 2002, were dampered again in 2003 with depressed tourist arrivals following the start of the war in Iraq and the outbreak of Severe Acute Respiratory Syndrome. Honolulu's month-long bus strike put a crimp on product sales in Chinatown which relies heavily on people traveling by bus.

FLORICULTURE AND NURSERY PRODUCTS: Value of grower sales, by counties, 1999-2003

Year	Cut flowers ¹	Orchids ²	Lei flowers	Foliage ³	Potted flowering plants	All other nursery products ⁴	Unspecified sales ⁵	Total
1,000 dollars								
State								
1999	16,517	17,166	4,051	16,055	4,421	15,978	1,537	75,725
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	14,158	24,379	3,722	17,147	5,626	31,299	1,355	97,686
Counties:								
Hawaii								
1999	12,588	10,015	1,697	12,754	2,011	2,718	679	42,462
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	10,255	15,221	1,086	14,391	1,156	8,075	635	50,819
Honolulu								
1999	745	5,741	1,210	2,601	1,063	10,119	386	21,865
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	655	7,123	1,399	2,223	3,177	17,402	370	32,349
Kauai								
1999	133	411	⁶	72	118	696	117	1,547
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	268	459	⁶	⁶	148	2,198	130	3,203
Maui								
1999	3,051	999	⁶	628	1,229	3,589	355	9,851
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	2,980	1,576	⁶	⁶	1,145	5,394	220	11,315

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, 1999-2003¹

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
CUT FLOWERS				
Anthuriums - dozens				
1999	68	11,500	1,019	6,725
2000	64	NA	1,010	7,357
2001	61	NA	876	5,929
2002	66	NA	738	4,720
2003	61	NA	806	5,794
Birds of Paradise - dozens				
1999	25	5,650	86	566
2000	26	NA	101	690
2001	27	NA	97	676
2002	24	NA	94	666
2003	28	NA	74	581
Carnations, miniature - bunches				
1999	4	75	51	131
2000 ³				
2001 ³				
2002 ³				
2003³				
Chrysanthemums, pompon - bunches				
1999	4	250	251	588
2000	4	NA	206	415
2001	4	NA	217	447
2002	4	NA	225	469
2003	4	NA	229	480
Ginger, pink - dozens				
1999	47	3,465	82	464
2000	46	NA	81	542
2001	45	NA	67	460
2002	40	NA	59	474
2003	41	NA	57	485
Ginger, red - dozens				
1999	61	3,380	157	748
2000	53	NA	137	750
2001	57	NA	140	820
2002	56	NA	147	1,048
2003	56	NA	135	978

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, 1999-2003¹ -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
Gingers, other - dozens				
1999	27	1,085	30	221
2000	26	NA	28	216
2001	23	NA	20	128
2002	22	NA	25	197
2003	27	NA	27	236
Heliconias - dozens				
1999	58	4,860	72	613
2000	54	NA	65	671
2001	53	NA	66	672
2002	50	NA	78	734
2003	58	NA	71	795
Proteas - stems				
1999	33	8,345	2,518	1,677
2000	25	NA	1,915	1,392
2001	28	NA	1,342	1,177
2002	25	NA	1,475	1,108
2003	24	NA	1,978	1,545
Roses⁴ - stems				
1999				
2000	9	NA	5,144	2,057
2001 ³				
2002 ³				
2003³				
Other cut flowers - dozens				
1999	31	NA	NA	4,784
2000	32	NA	NA	2,207
2001	45	NA	NA	4,257
2002	55	NA	NA	3,639
2003	48	NA	NA	3,264

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, 1999-2003¹ -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
ORCHIDS				
Cymbidiums, cut - flowers				
1999	12	335	537	337
2000	10	NA	509	315
2001	10	NA	383	218
2002	12	NA	464	247
2003	11	NA	443	231
Dendrobiums, sprays - dozens				
1999	49	2,610	378	2,608
2000	49	NA	340	2,335
2001	49	NA	385	2,926
2002	54	NA	462	3,218
2003	49	NA	413	3,064
Oncidiums, sprays - dozens				
1999	31	355	47	463
2000	37	NA	56	536
2001	36	NA	60	590
2002	34	NA	64	641
2003	34	NA	79	770
Other orchids, sprays⁵ - dozens				
1999	6	NA	NA	28
2000	10	NA	NA	119
2001	9	NA	NA	28
2002	16	NA	NA	210
2003	17	NA	NA	657
Dendrobiums, potted⁶ - pots				
1999	72	NA	942	5,640
2000	74	NA	1,065	6,528
2001	76	NA	1,155	6,683
2002	76	NA	1,354	7,318
2003	76	NA	1,309	7,166
Phalaenopsis, potted - pots				
1999	21	NA	205	1,169
2000	24	NA	143	1,030
2001	29	NA	161	1,055
2002	28	NA	178	1,214
2003	31	NA	247	1,699
Other orchids, potted - pots				
1999	61	NA	1,551	6,921
2000	75	NA	1,561	7,243
2001	80	NA	2,148	9,150
2002	82	NA	1,922	9,975
2003	88	NA	1,826	10,792

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, 1999-2003¹ -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
LEI/INDIVIDUAL BLOOMS				
Carnations - blooms				
1999	7	NA	5,600	397
2000	6	NA	5,400	377
2001	6	NA	5,600	387
2002	7	NA	7,000	360
2003	7	NA	5,000	269
Dendrobiums - blooms				
1999	27	NA	21,700	673
2000	26	NA	19,900	615
2001	27	NA	23,700	732
2002	29	NA	29,300	908
2003	29	NA	26,200	839
Pikake - strands				
1999	7	NA	82.5	222
2000	8	NA	77.8	270
2001	8	NA	62.0	140
2002	9	NA	81.0	242
2003	7	NA	67.0	227
Plumerias - blooms				
1999	10	NA	45,000	931
2000	12	NA	21,700	538
2001	13	NA	29,300	664
2002	14	NA	25,200	604
2003	13	NA	21,200	537
Tuberose - blooms				
1999	6	NA	20,400	959
2000	7	NA	22,100	987
2001	6	NA	29,200	1,405
2002	6	NA	35,300	1,641
2003	7	NA	32,200	1,484
Vanda, Miss Joaquim - blooms				
1999	7	NA	11,300	396
2000	7	NA	14,000	503
2001	6	NA	7,900	332
2002	4	NA	2,700	87
2003	6	NA	2,700	86
Other lei/individual - blooms				
1999	NA	NA	NA	473
2000	NA	NA	NA	325
2001	NA	NA	NA	268
2002	NA	NA	NA	328
2003	NA	NA	NA	280

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, 1999-2003¹ -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
FOLIAGE				
Potted, primarily for indoor or patio use⁷				
1999	65	5,265	NA	15,002
2000 ⁸				
2001 ⁸				
2002 ⁸				
2003⁸				
Potted, dracaena⁹				
1999				
2000	31	NA	NA	6,648
2001	32	NA	NA	8,443
2002	36	NA	NA	5,604
2003	32	NA	NA	5,585
Potted, palms⁹				
1999				
2000	44	NA	NA	8,434
2001	45	NA	NA	8,280
2002	46	NA	NA	7,966
2003	49	NA	NA	7,339
Potted, hanging baskets⁹				
1999				
2000	16	NA	NA	123
2001	15	NA	NA	129
2002	16	NA	NA	182
2003	17	NA	NA	157
Potted, other⁹				
1999				
2000	39	NA	NA	1,880
2001	32	NA	NA	2,384
2002	29	NA	NA	2,368
2003	34	NA	NA	2,387

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, 1999-2003¹ -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
Ti leaves, cut - leaves				
1999	45	2,575	5,900	468
2000	37	NA	2,100	161
2001	39	NA	4,700	432
2002	40	NA	5,900	632
2003	43	NA	8,000	803
Other greens, cut				
1999	22	NA	NA	224
2000	32	NA	NA	347
2001	32	NA	NA	215
2002	28	NA	NA	259
2003	31	NA	NA	317
Unfinished foliage stock (for further growing on)				
1999 ¹⁰				
2000	12	NA	NA	702
2001	8	NA	NA	497
2002	11	NA	NA	735
2003	8	NA	NA	559
POTTED BEDDING/GARDEN				
Impatiens, New Guinea				
1999 ¹⁰				
2000	11	NA	104	129
2001	10	NA	131	192
2002	11	NA	121	172
2003	11	NA	133	217
Impatiens, other				
1999 ¹⁰				
2000	8	NA	169	103
2001	10	NA	279	158
2002	12	NA	268	145
2003	11	NA	290	166
Other bedding/garden				
1999 ¹⁰				
2000	30	NA	NA	2,502
2001	29	NA	NA	2,548
2002	29	NA	NA	3,474
2003	28	NA	NA	3,736

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, 1999-2003¹ -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
POTTED FLOWERING PLANTS				
Anthuriums - pots				
1999	24	NA	144	495
2000	28	NA	182	677
2001	25	NA	177	673
2002	26	NA	144	751
2003	29	NA	148	806
Bromeliads - pots				
1999	14	NA	112	626
2000	18	NA	111	593
2001	18	NA	138	588
2002	14	NA	221	890
2003	13	NA	122	505
Chrysanthemums - pots				
1999	4	NA	159	677
2000	6	NA	178	738
2001	5	NA	176	737
2002	5	NA	150	652
2003	5	NA	145	632
Poinsettias - pots				
1999	30	NA	332	1,233
2000	31	NA	334	1,292
2001	35	NA	328	1,273
2002	31	NA	382	1,551
2003	30	NA	333	1,371
Other potted flowering plants				
1999	26	NA	NA	1,390
2000	30	NA	NA	1,744
2001	34	NA	NA	1,739
2002	31	NA	NA	3,208
2003	29	NA	NA	2,312

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, 1999-2003¹ -- Continued

Crop	Farms having sales ²	Production area	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000 square feet</i>	<i>1,000</i>	<i>1,000 dollars</i>
PLANT RENTALS				
1999	32	NA	NA	3,226
2000	37	NA	NA	3,374
2001	42	NA	NA	3,098
2002	47	NA	NA	3,801
2003	41	NA	NA	3,681
LANDSCAPE PLANTS				
1999 ¹⁰				
2000	98	NA	NA	10,601
2001	110	NA	NA	12,996
2002	117	NA	NA	17,150
2003	121	NA	NA	18,454
OTHER NURSERY PRODUCTS¹¹				
1999				13,113
2000				3,141
2001				3,846
2002				4,827
2003				5,045
UNSPECIFIED SALES¹²				
1999				1,537
2000				1,477
2001				1,225
2002				1,300
2003				1,355
TOTAL				
1999	765			75,725
2000	735			82,684
2001	790			88,597
2002	870			95,715
2003	795			97,686

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 Prior to 2000, included with "Other cut flowers". ⁵ Includes cattleyas, vanda hybrids, phalaenopsis, and paphiopedilums. ⁶ Includes in bud/bloom and community pots. ⁷ Includes hanging baskets. ⁸ Beginning 2000, separated into "Dracaena", "Palms", "Hanging baskets", and "Other". ⁹ Prior to 2000, included with "Potted, primarily for indoor or patio use". ¹⁰ Included with "Other nursery products". ¹¹ Includes other flowers or nursery products not elsewhere classified. ¹² 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, 1999-2003

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						
1999	765	2,910	25,695	15	2,040	2,712
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	795	2,815	29,410	13	2,620	3,373
Counties:						
Hawaii						
1999	355	1,970	21,450	15	1,015	1,568
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	375	2,190	23,435	13	1,345	1,946
Honolulu						
1999	225	485	3,360	0	465	553
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	210	220	5,000	0	565	685
Kauai						
1999	35	90	265	0	85	93
2000	50	70	340	1	130	140
2001	60	115	295	0	155	164
2002	65	90	495	0	180	193
2003	65	65	355	0	160	170
Maui						
1999	150	365	620	0	475	498
2000	145	345	685	0	515	539
2001	150	425	730	0	565	592
2002	155	400	740	0	540	566
2003	145	340	620	0	550	572

¹ Glass or glass substitute structure.

FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Out-of-State sales, State of Hawaii, 1999-2003 ¹

Commodity	1999	2000	2001	2002	2003
<i>1,000 dollars</i>					
Anthuriums, cut	10,685	10,600	8,800	7,700	8,500
Birds of Paradise	710	980	860	840	700
Cymbidiums	110	100	150	140	140
Dendrobiums, sprays	2,875	3,395	3,500	3,400	3,600
Oncidium	270	545	510	500	610
Foliage, cut:					
Ti leaves	400	670	710	680	840
Other cut greens	845	1,060	1,480	1,520	1,600
Foliage, potted	12,785	13,525	15,800	10,700	11,000
Ginger, red	875	1,010	560	600	650
Gingers, other	890	830	590	490	540
Heliconias	970	1,400	1,020	1,040	1,200
Potted orchids:					
Dendrobiums	4,120	3,850	4,900	4,510	4,590
Phalaenopsis	285	655	630	750	930
Other orchids	5,395	6,285	7,200	9,130	9,730
Proteas	2,130	1,930	1,560	1,620	1,800
Mixed assortment of cut flowers			1,260	1,240	1,730
All other flowers and nursery products	2,600	2,615	2,570	3,010	2,740
Total	45,945	49,450	52,100	47,870	50,900

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.

DENDROBIUM ORCHIDS: Sales and value, State of Hawaii, 1999-2003 ¹

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 blooms</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>	
1999	21.7	673	378	2,608	816	5,119	126	521	8,921
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	26.2	839	413	3,064	1,052	5,891	257	1,275	11,069

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

2003 FRUIT HIGHLIGHTS

Fruit growers statewide harvested 704.9 million pounds for fresh and processed utilization in 2003, down 2 percent from the previous year. Total fruit acreage fell 13 percent to 22,401 acres, mainly due to a decrease in pineapple acreage. Compared with 2002, harvests were smaller for all fruits except banana and avocado. The value for most fruits was higher than a year ago, together totaling \$129.7 million and 3 percent above 2002. Farm values increased for pineapple, papaya, banana, other fruits, and avocado.

● HAWAII

Farm sales from Hawaii County totaled \$19.9 million, up 12 percent from a year ago and the highest value since 1997. More sales of papayas, bananas, tropical specialty fruits, and avocados contributed toward the increase. Papaya sales made up 56 percent of the island's total with farm receipts of \$11.0 million. Banana output continued to be ranked second. Tropical specialty fruits were up 21 percent from last year. Guava and citrus were lower than 2002.

● HONOLULU

Fruit grown in Honolulu County totaled \$76.8 million in 2003 compared to \$74.7 million during the previous year and increasing after three consecutive years of decline. The increase in value was mainly due to larger pineapple output. Revenues from other fruits 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 2003 decreased 29 percent from the previous year to \$1.7 million. Guavas, tropical specialty fruits, bananas, and papayas accounted for virtually all the value. Avocados and citrus made up the remainder.

● MAUI

The 2003 fruit value for Maui County, at \$31.3 million, increased 1 percent from 2002. Pineapple accounted for 95 percent of the Maui County value. Strawberries, bananas, papayas, tropical specialty fruits, and other fruits made up the rest of the value.



MARKET SUPPLY: FRESH FRUITS

MARKET SUPPLY: Fresh market fruits, State of Hawaii, 1999-2003^{1 2}

Commodity		1999	2000	2001	2002	2003	Hawaii market share 2003
							<i>Percent</i>
Apples:	Inshipments	15,588	14,915	13,622	11,802	13,499	
Avocados:	Inshipments	616	825	952	1,197	1,450	
	Hawaii	600	640	600	700	760	34
Bananas:	Inshipments	8,484	9,055	6,321	8,211	8,091	
	Hawaii	24,500	29,000	28,000	20,000	22,500	74
Cantaloupe melons:	Inshipments	8,334	8,877	9,641	8,349	8,267	
	Hawaii ³						
Grapefruit:	Inshipments	1,992	1,930	1,713	1,753	1,552	
Grapes:	Inshipments	7,541	8,546	7,145	8,543	7,435	
Honeydew melons:	Inshipments	4,125	4,448	2,698	2,334	2,220	
	Hawaii ³						
Lemons:	Inshipments	2,937	3,492	3,321	3,259	3,316	
Limes:	Inshipments	881	882	935	1,092	1,193	
	Hawaii ³						
Nectarines:	Inshipments	2,053	2,074	2,016	2,345	2,123	
Oranges:	Inshipments	7,714	12,109	11,017	12,683	13,342	
	Hawaii ³						
Papayas:	Inshipments						³
	Hawaii ⁴	18,075	24,100	26,355	21,490	21,965	
Pears:	Inshipments	4,001	3,944	3,423	3,216	4,354	
Pineapples:	Hawaii	46,800	34,700	39,800	37,200	35,700	
Tangerines:	Inshipments	1,262	856	649	875	1,226	
	Hawaii ³						
Watermelons:	Inshipments	2,531	2,804	2,065	2,216	2,137	
	Hawaii	11,400	12,600	10,500	11,300	11,900	85
All other fruits:	Inshipments	8,824	10,639	11,463	12,429	13,941	
	Hawaii	6,556	5,416	6,056	9,907	7,513	35
Unspecified fruits:	Inshipments ⁵	14,000	13,000	8,366	11,248	11,759	
Total:	Inshipments	90,883	98,396	85,347	91,552	95,905	
	Hawaii	107,931	106,456	111,311	100,597	100,338	51
	All	198,814	204,852	196,658	192,149	196,243	

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, 1999-2003¹

Crop	Farms ²	Acreage		Number of trees		Utilized production ³	Farm price ^{3 4}	Value of sales
		In crop	Harvested	Total	Bearing			
<i>Number ----- Acres ----- 1,000 pounds Dollars per pound 1,000 dollars</i>								
Longan								
1999 ⁵								
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	55	135	75	6,400	3,300	114	3.33	380
Lychee								
1999	80	275	45	12,900	3,100	86	2.81	242
2000	90	300	50	15,200	3,700	⁵	⁵	⁵
2001	85	305	65	16,400	4,300	⁵	⁵	⁵
2002	90	330	95	15,500	5,000	77	2.64	203
2003	110	370	80	16,500	3,200	88	2.84	250
Mango								
1999	80	240	85	11,200	4,600	162	1.02	166
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
Rambutan								
1999	60	205	70	9,400	3,500	113	2.88	326
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
Starfruit								
1999	25	20	15	1,800	1,700	96	.66	63
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	45	25	7	2,400	700	24	1.57	38
Other								
1999	--	170	55	8,900	3,700	189	--	243
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	--	190	53	15,300	7,600	141	--	212

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, 1999-2003¹ -- 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>
Total								
1999	140	910	270	44,200	16,600	646	--	1,040
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	1,250	600	64,200	30,700	1,154	--	2,128

-- = 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. ⁵Data 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, 1999-2003

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					
1999	140	910	270	646	1,040
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	1,250	600	1,154	2,128
Counties:					
Hawaii					
1999	85	375	110	256	397
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
Honolulu/Kauai/Maui²					
1999	55	535	160	390	643
2000	60	555	175	398	670
2001	65	555	280	390	572
2002	70	585	310	545	752
2003	75	650	320	692	914

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, 1999-2003¹

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>
1999	15	21.0	352	230	122	126	594	101,448
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	315	183	132	135	592	102,849

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, 1999-2003

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>		
1999	122	72.5	72.3	144.8
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	132	78.1	72.4	150.5

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, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	<i>1,000 pounds</i>												
1999	13,564	12,237	18,052	16,603	18,477	18,805	20,645	13,305	15,929	16,490	17,700	15,388	197,195
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

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

AVOCADOS: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1999-2003

Year	Farms	Acreage ¹		Yield per acre ²	Production	Farm price	Value of sales
		In crop	Bearing				
<i>Number</i>		<i>----- Acres -----</i>		<i>----- 1,000 pounds -----</i>		<i>Cents per pound</i>	<i>1,000 dollars</i>
1999	120	360	230	2.6	600	60.0	360
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

¹ At end of year.

² Production divided by bearing acreage.

BANANAS: Distribution of harvested acreage by yield, State of Hawaii, 2002-2003

Stratum: Yield per harvested acre	Variety							
	Hawaii Apple ¹				Cavendish and others ²			
	Harvested acres		Average yield		Harvested acres		Average yield	
	2002	2003	2002	2003	2002	2003	2002	2003
	<i>Pounds</i>		<i>----- Pounds -----</i>		<i>----- Pounds -----</i>		<i>----- Pounds -----</i>	
Over 20,000	125	NA	24,300	NA	518	NA	23,700	NA
10,001 - 20,000	152	NA	10,800	NA	109	NA	12,500	NA
10,000 and Under	353	NA	4,100	NA	73	NA	4,700	NA
Overall Average Yield	630	NA	9,500	NA	700	NA	20,000	NA

NA = Not available.

¹ Includes Dwarf Hawaii Apple and Apple bananas, formerly called Brazilian.

² Includes Chinese, Williams, Valery, Grand Nain, Bluefields, Dwarf Bluefields, and other bananas.

BANANAS

BANANAS: Number of farms, acreage, yield, production, price, and value, by counties, 1999-2003

Year	Farms	Acreage		Yield per acre ³	Utilized production	Farm price	Value of sales
		In crop ¹	Harvested ²				
Number		----- Acres -----		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ⁴							
1999	210	1,760	1,420	17.3	24,500	35.0	8,575
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
Counties:							
Hawaii							
1999	45	830	650	18.2	11,800	32.5	3,819
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							
Honolulu							
1999	85	785	670	16.9	11,300	35.5	4,039
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							
Kauai							
1999	40	60	50	10.2	510	42.5	218
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							
Maui							
1999	40	85	50	17.8	890	56.0	499
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							

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, 1999-2003

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

1999	1,739	1,743	1,968	1,714	2,124	2,090	2,323	2,500	2,363	2,151	1,820	1,965	24,500	1,760	1,420
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

Hawaii Apple ³

1999	487	442	418	392	398	402	360	386	390	429	403	393	4,900	700	530
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														

Cavendish and Others ⁴

1999	1,252	1,301	1,550	1,322	1,726	1,688	1,963	2,114	1,973	1,722	1,417	1,572	19,600	1,060	890
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														

Farm price for fresh market

Cents per pound

All Bananas ⁵

1999	37.0	38.5	38.0	37.5	35.0	33.5	32.5	33.0	33.0	33.5	36.5	35.0	35.0
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

Hawaii Apple ³

1999	48.0	47.5	47.0	47.0	47.5	47.5	47.5	48.0	47.5	47.5	48.0	48.0	47.5
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												

Cavendish ⁶

1999	32.5	35.0	35.5	34.5	31.5	30.0	29.5	30.0	30.0	29.5	33.0	31.5	31.5
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												

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, 1999-2003 ¹

Year	Farms ²	Acreage ²		Yield per acre ³	Utilized produc- tion	Utilization		Price per pound			Value of utilized production
		In crop	Harvested			Fresh	Processed	Fresh	Processed ⁴	All	
<i>Number ----- Acres ----- ----- 1,000 pounds ----- ----- Cents ----- 1,000 dollars</i>											
State											
1999	222	3,500	1,940	21.9	42,400	39,400	3,000	40.2	3.0	37.6	15,929
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
Counties:											
Hawaii											
1999	168	2,595	1,415	20.1	28,455	25,455	⁵ 3,000	36.3		32.8	9,327
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
Honolulu											
1999	22	550	335	24.7	8,265	8,265	0	52.3		52.3	4,322
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
Kauai											
1999	22	285	145	32.8	4,760	4,760	⁵	⁶ 40.1		⁶ 40.1	⁶ 2,280
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
Maui											
1999	10	70	45	20.4	920	920	0	⁶		⁶	⁶
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

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

² Average of monthly estimates.

³ Utilized production divided by acreage harvested.

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.

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

PAPAYAS: Acreage, utilization, outshipments, and price, State of Hawaii, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres ¹													
1999	2,190	2,135	2,100	2,145	2,155	2,025	2,035	2,025	1,615	1,620	1,605	1,635	1,940
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
Utilization (fresh and processed) - 1,000 pounds													
1999	3,310	3,155	3,315	3,475	3,655	3,440	3,490	3,705	3,695	3,835	3,785	3,540	42,400
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
Total fresh papaya utilization - 1,000 pounds													
1999	2,975	2,985	3,155	3,260	3,365	3,215	3,225	3,315	3,480	3,520	3,565	3,340	39,400
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
Intrastate fresh papaya utilization - 1,000 pounds													
1999	1,405	1,390	1,305	1,500	1,645	1,410	1,385	1,475	1,610	1,695	1,720	1,535	18,075
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
Outshipments of fresh papayas - 1,000 pounds													
1999	1,570	1,595	1,850	1,760	1,720	1,805	1,840	1,840	1,870	1,825	1,845	1,805	21,325
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
Farm price for fresh market sales (to all markets) - cents per pound													
1999	29.5	35.5	41.1	44.2	44.7	44.3	43.7	44.4	39.9	37.0	35.1	42.7	40.2
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

¹ Total is average of monthly data.

GUAVAS

GUAVAS: Number of farms, acreage, farm production, price, and value, by counties, 1999-2003

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						
1999	130	870	630	10,700	12.0	1,284
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
Counties:						
Hawaii						
1999	125	430	240	3	3	3
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
Honolulu/Kauai/Maui⁴						
1999	5	440	390	3	3	3
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

¹ Includes planting intentions.

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, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
<i>1,000 pounds</i>													
1999	487	286	819	480	279	491	633	735	1,468	2,216	1,962	844	10,700
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

2003 VEGETABLE, MELON, AND TARO HIGHLIGHTS

VEGETABLES AND MELONS

The farm value of Hawaii vegetables and melons was at a record high \$52.6 million in 2003, up 4 percent from 2002. Tomatoes led all individual vegetables and melons in farm value with a record high \$10.2 million in 2003, up 5 percent from 2002 and accounting for 19 percent of the State total. A distant second were watermelon farmers with \$2.9 million in revenues for 2003, down 3 percent from 2002. Cucumbers moved up from fourth to third in farm revenues by posting \$2.8 million during 2003, up 14 percent from 2002. Dry onions registered the largest dollar gain in farm revenues earning \$2.8 million in 2003, up 38 percent or a \$756,000 gain from 2002. The combined category of "Other Vegetables and Melons" had farm value of \$16.3 million in 2003, up 1 percent from 2002. This category contains over 60 individual vegetables and includes such crops as baby vegetables, ethnic vegetables, mushrooms, salad mix greens, specialty lettuces, sprouts, and taro leaves.



Farm production of vegetables and melons totaled 97.9 million pounds in 2003, up 1 percent from 2002. Leading all vegetables and melons for the fifth consecutive year were tomatoes (field-grown and greenhouse tomatoes combined) with a record-tying harvest of 17.5 million pounds in 2003. Head cabbage growers were a distant second with production estimated at 12.6 million pounds in 2003, down 3 percent from 2002. Third were watermelon farmers with a harvest of 11.9 million pounds, up 5 percent from 2002. The category of Other Vegetables and Melons had combined production of 16.3 million pounds in 2003, down 7 percent from the record high achieved in 2002. Large volume crops in this category include specialty lettuces, sprouts, and taro leaves.

Honolulu County accounted for 62 percent of the State's total production of vegetables and melons in 2003. Hawaii County was the second leading area of vegetable and melon production with 20 percent of the State's 2003 total. Maui County was third with 16 percent, while Kauai County was a distant fourth with 2 percent.

TARO

Hawaii taro production declined to a record low 5.0 million pounds in 2003, down 18 percent from 2002. The previous record low was 5.5 million pounds in 1997. Taro for processing totaled 4.8 million pounds in 2003, down 17 percent from the previous year. 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 most importantly by apple snails.

Farm value from the sale of taro for fresh and processed use totaled \$2.7 million in 2003, down 18 percent from 2002 and the lowest annual total since 1990. The overall farm price of taro remained steady at 54.0 cents per pound in 2003. Poi taro farm prices averaged 53.9 cents per pound, down 1 percent from 2002. Chinese taro farm prices increased 10 percent to an average of 56.3 cents per pound.

MARKET SUPPLY: FRESH VEGETABLES

MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 1999-2003 ¹

Commodity		1999	2000	2001	2002	2003	Hawaii market share 2003
		----- 1,000 pounds -----					Percent
Beans, snap:	Inshipments	185	591	285	515	432	
	Hawaii	1,000	1,200	1,100	900	1,000	70
Bittermelon:	Inshipments	53	53	31	38	51	
	Hawaii	550	300	250	200	220	81
Broccoli:	Inshipments	5,943	5,285	4,822	4,882	4,864	
	Hawaii	300	400	550	550	750	13
Burdock:	Inshipments	41	41	38	51	66	
	Hawaii	250	180	150	³	³	
Cabbage, Chinese:	Inshipments	114	281	178	234	789	
	Hawaii ⁴	6,400	6,200	6,000	5,700	6,700	89
Cabbage, head:	Inshipments	498	899	1,151	341	1,907	
	Hawaii	14,300	14,600	12,500	13,000	12,600	87
Cabbage, mustard:	Inshipments	93	72	112	205	102	
	Hawaii	1,600	1,500	1,600	1,400	1,300	93
Carrots:	Inshipments	11,667	12,505	11,550	11,628	10,508	
	Hawaii ³						
Cauliflower:	Inshipments	1451	1,337	1,171	1,152	1,032	
	Hawaii ³						
Celery:	Inshipments	5,022	5,259	4,961	4,830	4,576	
	Hawaii	1,300	1,100	1,150	1,100	1,200	21
Corn, sweet:	Inshipments	1,648	1,271	966	771	1,189	
	Hawaii	1,700	2,400	1,900	2,400	2,500	68
Cucumbers:	Inshipments	721	729	282	616	397	
	Hawaii	5,800	5,700	5,300	5,400	5,900	94
Daikon:	Inshipments	--	4	--	5	5	
	Hawaii ⁴	2,300	2,750	2,800	2,100	2,300	100
Dasheen:	Inshipments	48	87	74	66	65	
	Hawaii ³						
Eggplant:	Inshipments	445	489	211	616	488	
	Hawaii	1,500	1,200	1,000	750	850	64
Ginger root:	Inshipments	286	155	6	5	223	
	Hawaii	16,100	13,500	18,000	14,400	6,000	96
Lettuce ⁵ :	Inshipments	12,719	13,728	11,366	9,336	8,577	
	Hawaii	1,500	1,300	1,200	1,200	1,200	12
Lotus root:	Inshipments	50	51	40	72	53	
	Hawaii ³						
Onions, dry:	Inshipments	16,093	16,460	17,752	17,611	13,312	
	Hawaii	3,400	4,300	5,400	2,100	3,300	20

See footnotes at end of table.

Continued

MARKET SUPPLY: FRESH VEGETABLES

MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 1999-2003¹ -- Continued

Commodity		1999	2000	2001	2002	2003	Hawaii market share 2003
		----- 1,000 pounds -----					Percent
Onions, green:	Inshipments	170	263	240	180	275	
	Hawaii	1,700	1,500	1,400	1,500	1,600	85
Parsley, American:	Inshipments	25	17	26	52	89	
	Hawaii	190	220	330	300	310	78
Peas, Chinese:	Inshipments	381	344	335	381	308	
	Hawaii ³						
Peppers, green:	Inshipments	1,804	1,948	1,910	1,912	2,049	
	Hawaii	3,000	2,800	3,100	3,200	3,300	62
Potatoes:	Inshipments ⁶	35,702	40,474	40,132	39,126	37,372	
	Hawaii ³						
Potatoes, sweet:	Inshipments	1,239	1,366	1,551	1,303	1,202	
	Hawaii	2,900	2,500	1,800	2,300	2,060	63
Pumpkins:	Inshipments	1,144	1,426	393	121	96	
	Hawaii	450	170	400	400	850	90
Radish:	Inshipments	--	6	1	1	18	
	Hawaii	130	100	150	100	³ 18	
Romaine:	Inshipments	5,023	6,337	6,412	7,492	7,410	
	Hawaii	2,700	2,000	2,000	1,800	1,900	20
Squash, Italian:	Inshipments	979	1,188	847	1,187	1,074	
	Hawaii	1,900	2,200	1,800	1,400	1,800	63
Squash, oriental:	Inshipments	--	4	2	35	24	
	Hawaii	600	600	500	250	200	89
Taro:	Inshipments	1,491	1,293	1,200	749	1,786	
	Hawaii ⁴	300	200	200	300	200	10
Tomatoes:	Inshipments	3,973	3,340	2,995	3,290	2,035	
	Hawaii	16,800	16,500	17,500	17,500	17,500	90
Watercress:	Inshipments	10	10	51	184	223	
	Hawaii	970	970	860	800	650	74
All other vegetables:	Inshipments	18,856	20,937	16,329	16,459	18,281	
	Hawaii	12,710	10,980	11,470	13,850	14,790	45
Unspecified vegetables:	Inshipments ⁷	23,000	21,000	14,000	17,569	16,893	
Total:	Inshipments	150,874	159,250	141,420	143,015	137,771	
	Hawaii	102,350	97,370	100,410	94,900	90,980	40
	All	253,224	256,620	241,830	237,915	228,751	

-- = Negligible.

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

² Inshipment data not available.

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

⁴ Fresh market only.

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, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State¹					
1999	200	5.0	1,000	88.0	880
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
Counties:					
Hawaii/Kauai²					
1999	85	3.2	270	84.2	227
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
Honolulu					
1999	25	6.4	160	98.0	157
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
Maui					
1999	90	6.3	570	87.0	496
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

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, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres¹													
1999	18	19	17	17	18	22	20	17	18	18	20	17	200
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
Production - 1,000 pounds													
1999	72	66	89	73	94	88	78	65	98	97	103	77	1,000
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
Farm price - cents per pound													
1999	100.2	103.6	93.4	101.1	84.0	66.2	77.8	85.6	83.4	80.7	87.3	102.3	88.0
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

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, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
1999	330	22.7	7,500	19.0	1,425
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
Counties:					
Hawaii					
1999	220	23.2	5,100	19.0	969
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
Honolulu/Kauai/Maui ²					
1999	110	21.8	2,400	19.0	456
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

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, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
1999	30	33	29	29	29	27	30	26	26	21	22	28	330
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
Processing and fresh market:													
Production - 1,000 pounds													
1999	623	676	595	551	610	600	668	614	628	651	696	588	7,500
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
Farm price - cents per pound													
1999	22.2	17.1	15.0	16.2	18.2	18.9	18.4	20.1	22.6	19.4	20.9	18.4	19.0
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

HEAD CABBAGE

HEAD CABBAGE: Acreage, yield, production, price, and value, by counties, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
1999	550	26.0	14,300	18.0	2,574
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
Counties:					
Hawaii/Honolulu/Kauai ²					
1999	340	25.3	8,600	18.2	1,565
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
Maui					
1999	210	27.1	5,700	17.7	1,009
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

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, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
1999	49	56	50	48	44	42	41	41	42	44	47	46	550
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
Production - 1,000 pounds													
1999	1,223	1,221	1,518	1,135	1,118	1,016	1,112	1,124	1,193	1,295	1,162	1,183	14,300
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
Farm price - cents per pound													
1999	22.0	18.3	14.0	15.0	15.8	17.7	20.6	20.7	19.1	16.8	20.7	16.8	18.0
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

CELERY: Acreage, yield, production, price, and value, by counties, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
1999	50	26.0	1,300	29.0	377
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
Counties:					
Hawaii					
1999	25	32.0	800	31.5	252
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
Maui					
1999	25	20.0	500	25.0	125
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

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

CELERY: Acreage, production, and price, State of Hawaii, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
1999	4	4	4	4	5	4	4	4	5	4	4	4	50
2000 ¹													
2001 ¹													
2002 ¹													
2003 ¹													
Production - 1,000 pounds													
1999	107	105	102	106	108	99	99	103	116	109	125	121	1,300
2000 ¹													
2001 ¹													
2002 ¹													
2003 ¹													
Farm price - cents per pound													
1999	28.1	30.3	30.5	29.1	29.7	28.6	29.3	29.0	28.9	27.6	28.8	28.7	29.0
2000 ¹													
2001 ¹													
2002 ¹													
2003 ¹													

¹ Data not shown separately beginning 2000.

SWEET CORN

SWEET CORN: Acreage, yield, production, price, and value, by counties, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
1999	450	3.8	1,700	58.0	986
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
Counties:					
Hawaii/Kauai ²					
1999	180	4.6	830	52.3	434
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
Honolulu					
1999	215	2.9	630	62.0	391
2000 ³	285	4.8	1,380	63.6	878
2001 ³	270	3.9	1,050	67.7	711
2002 ³	340	3.8	1,300	60.2	783
2003 ³	510	2.6	1,350	58.7	792
Maui					
1999	55	4.4	240	67.0	161
2000 ³					
2001 ³					
2002 ³					
2003 ³					

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, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
1999	15	14	30	30	31	46	52	51	38	47	49	47	450
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
Production - 1,000 pounds													
1999	32	20	88	90	132	198	202	212	153	201	159	213	1,700
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
Farm price - cents per pound													
1999	55.8	60.4	72.5	59.2	62.1	43.3	45.9	58.9	54.0	62.3	63.8	67.4	58.0
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

CUCUMBERS: Acreage, yield, production, price, and value, by counties, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State¹					
1999	470	12.3	5,800	43.0	2,494
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
Counties:					
Hawaii/Kauai²					
1999	45	14.4	650	39.6	257
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
Honolulu					
1999	280	10.2	2,850	49.0	1,397
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
Maui					
1999	145	15.9	2,300	36.5	840
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

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, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres¹													
1999	41	36	42	42	39	32	41	41	44	43	48	48	470
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
Production - 1,000 pounds													
1999	557	429	537	588	456	352	538	547	477	482	448	389	5,800
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
Farm price - cents per pound													
1999	47.0	49.2	42.1	38.1	39.0	54.8	38.4	36.7	37.4	39.7	53.1	47.7	43.0
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

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

DAIKON

DAIKON: Acreage, yield, production, price, and value, by counties, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State¹					
1999	300	9.0	2,700	28.0	756
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
Counties:					
Hawaii					
1999	220	8.2	1,800	26.5	477
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
Honolulu/Kauai/Maui²					
1999	80	11.3	900	31.0	279
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

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.

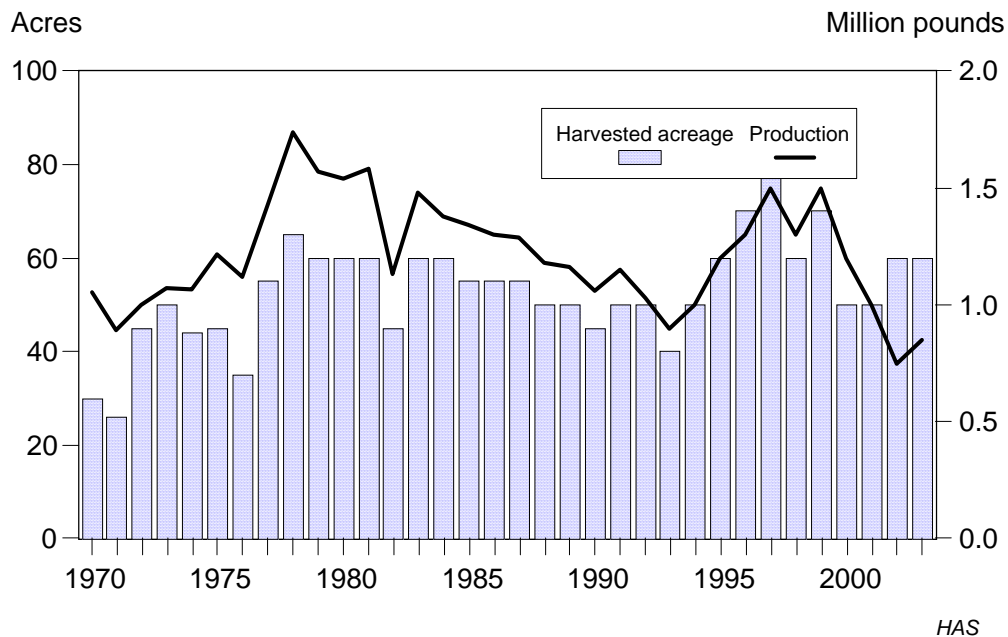
EGGPLANT: Acreage, yield, production, price, and value, by counties, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State¹					
1999	70	21.4	1,500	76.0	1,140
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
Counties:					
Hawaii/Kauai/Maui²					
1999	20	20.0	400	70.0	280
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
Honolulu					
1999	50	22.0	1,100	78.2	860
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

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, 1970-2003



LETTUCES

LETTUCES (HEAD, SEMI-HEAD): Acreage, yield, production, price, and value, by counties, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
1999	170	8.8	1,500	49.0	735
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
Counties:					
Hawaii					
1999	90	11.0	990	46.0	455
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
Honolulu/Kauai/Maui ²					
1999	80	6.4	510	54.9	280
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

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, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
1999	10	14	14	14	17	15	16	13	15	12	16	14	170
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
Production - 1,000 pounds													
1999	118	120	150	147	164	134	146	127	98	94	102	100	1,500
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
Farm price - cents per pound													
1999	46.9	50.1	45.9	49.5	49.2	49.0	46.9	49.6	49.3	54.5	49.6	50.3	49.0
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

DRY ONIONS

DRY ONIONS: Acreage, yield, production, price, and value, by counties, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
1999	310	11.0	3,400	67.0	2,278
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
Counties:					
Hawaii/Honolulu/Kauai ²					
1999	120	4.2	500	43.2	216
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
Maui					
1999	190	15.3	2,900	71.1	2,062
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

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, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
1999	11	11	29	51	52	42	21	21	13	17	24	18	310
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
Production - 1,000 pounds													
1999	112	131	332	332	436	394	307	355	204	217	351	229	3,400
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
Farm price - cents per pound													
1999	129.5	134.8	110.5	65.6	42.3	34.6	36.4	51.6	67.5	71.7	75.6	86.0	67.0
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

GREEN ONIONS

GREEN ONIONS: Acreage, yield, production, price, and value, by counties, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State¹					
1999	190	8.9	1,700	85.0	1,445
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
Counties:					
Hawaii/Kauai/Maui²					
1999	45	6.2	280	94.9	266
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
Honolulu					
1999	145	9.8	1,420	83.0	1,179
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

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, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
1999	15	15	15	16	16	15	24	15	13	15	15	16	190
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
Production - 1,000 pounds													
1999	140	143	139	138	132	143	150	142	141	142	149	141	1,700
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
Farm price - cents per pound													
1999	86.5	85.8	87.0	83.9	79.8	78.8	88.3	87.4	84.9	85.5	85.3	86.0	85.0
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

GREEN PEPPERS

GREEN PEPPERS: Acreage, yield, production, price, and value, State of Hawaii, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
1999	200	15.0	3,000	53.0	1,590
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

GREEN PEPPERS: Acreage, production, and price, State of Hawaii, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres ¹													
1999	19	20	19	19	17	17	19	18	22	19	18	18	200
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
Production - 1,000 pounds													
1999	231	231	276	247	197	258	251	264	228	260	278	279	3,000
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
Farm price - cents per pound													
1999	46.2	44.0	46.1	54.7	58.1	55.3	60.5	48.5	46.5	51.6	62.9	59.4	53.0
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

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

ROMAINE

ROMAINE: Acreage, yield, production, price, and value, by counties, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
1999	240	11.2	2,700	37.0	999
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
Counties:					
Hawaii/Honolulu ²					
1999	145	11.0	1,600	40.4	646
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
Maui					
1999	95	11.6	1,100	32.0	352
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

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, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
1999	21	23	27	27	24	24	23	20	13	11	14	13	240
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
Production - 1,000 pounds													
1999	312	264	348	324	239	250	196	153	124	160	179	151	2,700
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
Farm price - cents per pound													
1999	34.9	29.8	30.1	34.4	40.0	43.7	39.4	39.2	40.4	42.4	40.6	41.6	37.0
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

SWEET POTATOES

SWEET POTATOES: Acreage, yield, production, price, and value, by counties, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
1999	340	8.5	2,900	63.0	1,827
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
Counties:					
Hawaii/Honolulu/Kauai ²					
1999	270	8.5	2,300	63.8	1,467
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
Maui					
1999	70	8.6	600	60.0	360
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

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.

ITALIAN SQUASH

ITALIAN SQUASH: Acreage, yield, production, price, and value, by counties, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State¹					
1999	180	10.6	1,900	45.0	855
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
Counties:					
Hawaii/Honolulu/Kauai²					
1999	110	10.5	1,150	45.3	521
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
Maui					
1999	70	10.7	750	44.5	334
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

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, 1999-2003

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	
<i>Number ----- Acres ----- ----- 1,000 pounds ----- ----- Cents per pound ----- 1,000 dollars</i>											
State											
1999	190	420	80	500	300	6,500	6,800	53.0	53.5	53.0	3,604
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
Counties:											
Hawaii											
1999	100	100	80	180	200	900	1,100	61.0	53.2	57.5	632
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
Honolulu/Maui ²											
1999	25	90	*	90	100	1,300	1,400	52.4	54.9 ³	52.6	736
2000	30	100	*	100	*	1,300	1,300	52.6		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
Kauai											
1999	65	230	*	230	*	4,300	4,300	52.0	³	52.0	2,236
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

* = 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, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
1999	420	40.0	16,800	47.0	7,896
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

TOMATOES: Acreage, production, and price, State of Hawaii, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres¹													
1999	48	48	38	37	41	37	33	32	38	41	45	50	420
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
Production - 1,000 pounds													
1999	1,413	1,493	1,599	1,423	1,386	1,650	1,339	1,582	1,007	1,436	1,182	1,290	16,800
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
Farm price - cents per pound													
1999	56.6	45.1	42.1	48.7	51.4	50.1	43.3	39.1	48.5	38.3	51.9	52.0	47.0
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

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

WATERMELONS

WATERMELONS: Acreage, yield, production, price, and value, by counties, 1999-2003

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
1999	570	20.0	11,400	21.0	2,394
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
Counties:					
Hawaii/Kauai/Maui ²					
1999	10	20.0	200	21.2	42
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
Honolulu					
1999	560	20.0	11,200	21.0	2,352
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

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.

WATERMELONS: Acreage, production, and price, State of Hawaii, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres ¹													
1999	*	3	6	23	149	132	83	72	55	35	12	*	570
2000 ²													
2001 ²													
2002 ²													
2003 ²													
Production - 1,000 pounds													
1999	66	42	44	523	2,147	2,040	1,662	2,206	1,827	785	50	8	11,400
2000 ²													
2001 ²													
2002 ²													
2003 ²													
Farm price - cents per pound													
1999	18.8	25.1	27.6	30.4	25.8	20.8	18.4	18.2	17.0	23.9	29.1	25.0	21.0
2000 ²													
2001 ²													
2002 ²													
2003 ²													

* = Less than minimum amount to be estimated.

¹ Sum of monthly data exceeds total because harvest period longer than 1 month. ² Beginning 2000, data not shown separately.

OTHER VEGETABLES

OTHER VEGETABLES: Acreage, yield, production, price, and value, State of Hawaii, 1999-2003

Crop and year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
Bittermelon					
1999	40	13.8	550	74.0	407
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
Broccoli					
1999	75	4.0	300	50.0	150
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
Burdock					
1999	20	12.5	250	150.0	375
2000	15	12.0	180	150.0	270
2001	15	10.0	150	145.0	218
2002 ¹					
2003¹					
Cabbage, mustard					
1999	140	11.4	1,600	39.0	624
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
Pumpkins					
1999	45	10.0	450	39.0	176
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
Radish					
1999	15	8.7	130	60.0	78
2000	10	10.0	100	63.0	63
2001	15	10.0	150	60.0	90
2002	10	10.0	100	55.0	55
2003¹					
Squash, Oriental (Hyotan and Togan)					
1999	30	20.0	600	36.0	216
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

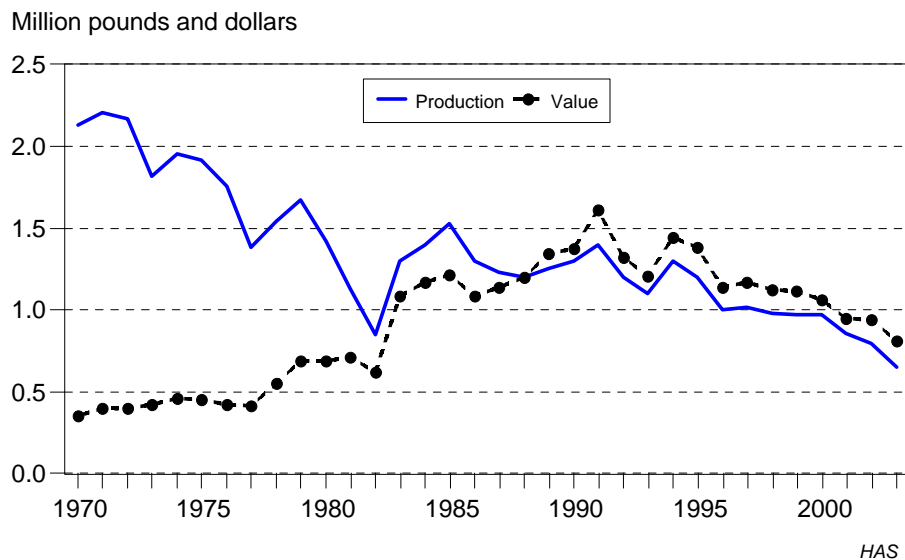
¹ Data not shown separately to avoid disclosure of individual operations.

PROCESSED CHINESE CABBAGE AND DAIKON, WATERCRESS

PROCESSED CHINESE CABBAGE AND DAIKON: Quantity processed, price, and value, State of Hawaii, 1999-2003

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>
1999	1,100	19.0	209	400	27.7	111
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

WATERCRESS: Production and Farm Value, State of Hawaii, 1970-2003



WATERCRESS: Acreage, production, price, and value, State of Hawaii, 1999-2003

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>
1999	35	970	115.0	1,116
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

2003 CATTLE, MILK, AND HOG HIGHLIGHTS

CATTLE

Cattle marketings in 2003 totaled 29.6 million pounds, live weight, 13 percent less than 2002. This decrease was the result of declines in the number of cattle and calves sold as well as a decline in the average live weight of the cattle and calves marketed. The 55,000 head of cattle and calves marketed was 5 percent fewer than 2002. When compared with the previous year, there were more calves weighing less than 500 pounds, and fewer cattle weighing more than 500 pounds marketed. Exports during 2003, which totaled 44,000 head, accounted for 80 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 2003 dipped 7 percent from 2002 to 10,800 head.

The combined annual average price ranchers received for all cattle and calves marketed increased 8 percent to \$58.10 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 2003 than in 2002. Cash revenues in 2003 decreased 6 percent from 2002 to a total of \$17.2 million, the direct result of fewer and lighter animals marketed.

The inventory of cattle and calves on Hawaii's ranches totaled 156,000 head on January 1, 2004, an increase of 3 percent from both 2002 and 2003. Hawaii County, which accounts for just under 75 percent of the State's total, recorded a 2 percent increase in inventory at 115,400 head.

MILK

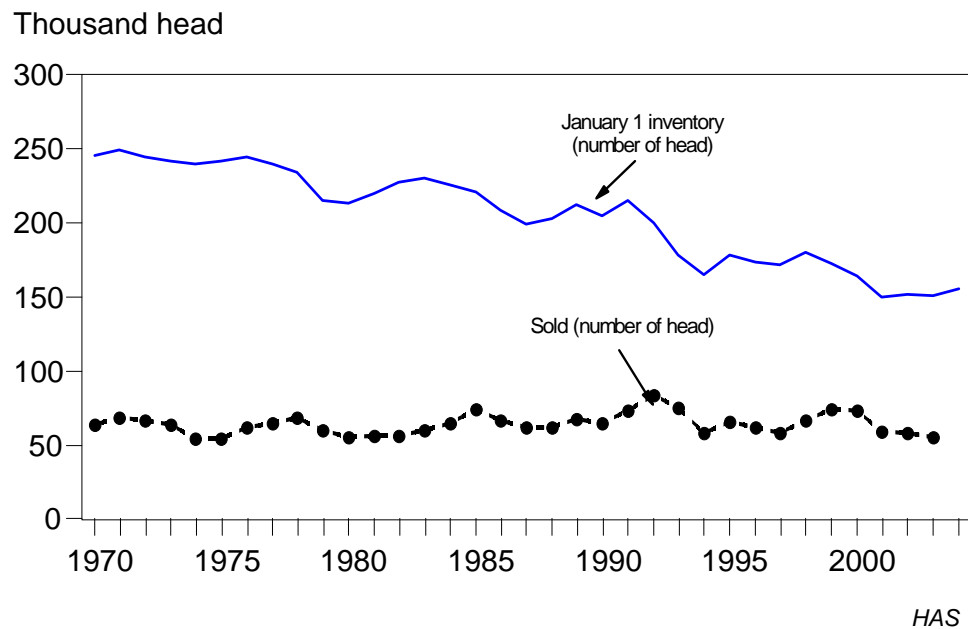
In 2003, dairy cows statewide produced 92.0 million pounds of milk, declining 5 percent from the previous year. About 62 percent of the milk was produced in the Honolulu County and the remainder on Hawaii County. Statewide revenues for milk sold at the farm level during the year totaled \$21.4 million, 5 percent below the 2002 receipt, and the fifth year of decline. Producers received an average \$23.70 per hundredweight for milk delivered to the processors in 2003 compared to \$23.60 per hundredweight in 2002. The cows herd totaled 6,500 head, 100 head below the 2002 count. In these past years, the number of milk cows has been increasing on Hawaii County but decreasing on Honolulu County after some dairies discontinued operations. The annual average output per cow was 14,154 pounds, down 513 pounds from the average in 2002.

HOGS AND PIGS

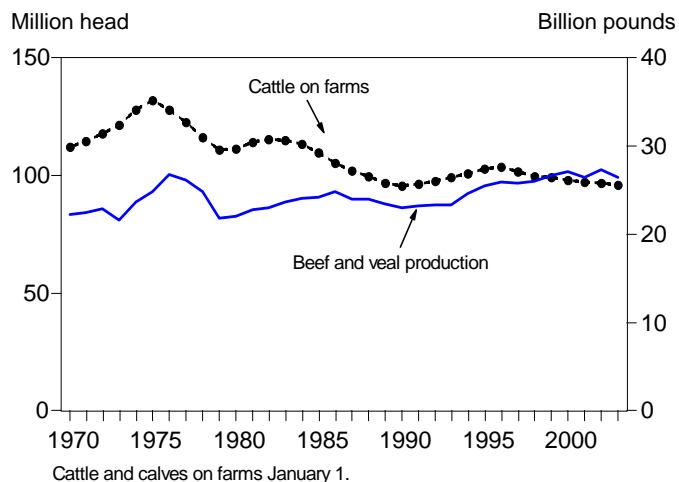
Hog marketings during 2003 decreased 10 percent to 5.1 million pounds. The number of hogs marketed also decreased 10 percent from 2002 to 27,000 head. The average price farmers received for their hogs and pigs increased 1 percent to \$84.70 per hundred pounds. The net result is a 9 percent decrease in cash receipts from the sales of hogs and pigs from 2002 to \$4.3 million in 2003.

The total number of hogs and pigs on hand in the State on December 1, 2003 was 23,000 head, 1,000 head fewer than in 2002. The share of hogs and pigs in Honolulu County, at 13,500 head, accounted for just under 60 percent of the State's inventory.

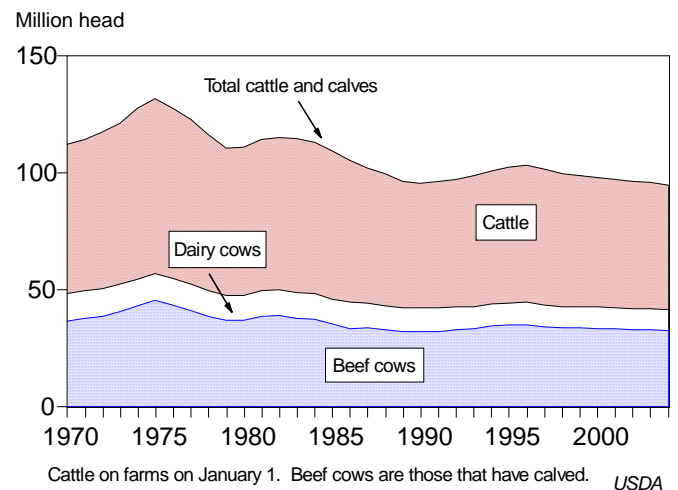
Cattle Inventory and Marketings, State of Hawaii, 1970-2003



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, 2000-2004

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											
2000	164	93	84	9	24	14	4	6	8	4	35
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
Counties:											
Hawaii											
2000	114.4	65.4	63.4	2.0	16.5	10.9	1.4	4.2	5.2	3.0	24.3
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
Honolulu											
2000	12.8	7.7	2.1	5.6	2.2	.4	1.6	.2	.2	.2	2.5
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
Kauai											
2000	10.5	4.9	4.1	.8	1.8	.7	.2	.9	1.1	.3	2.4
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
Maui											
2000	26.3	14.9	14.8	.1	3.5	2.1	.4	1.0	1.3	.5	6.1
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

* = 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, 1999-2003

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					
1999	800	74	38,070	44.10	16,806
2000	800	73	39,840	48.20	19,204
2001	⁵ 750	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
Counties:					
Hawaii					
1999	470	56.7	27,736	44.60	12,363
2000	470	55.0	28,660	49.30	14,138
2001	⁵ 440	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
Honolulu					
1999	60	2.0	1,522	36.20	551
2000	60	1.9	1,748	31.80	556
2001	⁵ 50	1.9	1,522	39.70	604
2002	50	1.6	1,323	43.20	572
2003	50	.5	519	39.10	203
Kauai					
1999	100	3.3	2,272	45.20	1,027
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
Maui					
1999	170	12.0	6,540	43.80	2,865
2000	170	12.0	6,707	48.20	3,230
2001	⁵ 150	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

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.

⁵ Revised.

CATTLE

CATTLE: Number of cattle sold, pounds, price, and value, State of Hawaii, 1999-2003

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>
1999	21	17,400	36.00	6,264
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

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, 1999-2003

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>
1999	53	20,670	51.00	10,542
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

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, 1999-2003

Year	Inventory beginning January 1	Calf crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory January 1 following year
				<i>1,000 head</i>			
1999	173	73	*	74	1	7	164
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

* = Less than 500.

CATTLE AND CALVES: Exports, State of Hawaii, 1999-2003

Year	Total	Cattle ¹	Calves ²	Steers	Heifers
			<i>1,000 head</i>		
1999	57	4	53	33	24
2000	51	5	46	30	21
2001	46	4	42	27	19
2002	42	4	38	25	17
2003	44	3	41	25	19

¹ 500 pounds or more.

² 499 pounds or less.

CATTLE: Commercial slaughter and farm price, State of Hawaii, 1999-2003¹

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

Number of head² - 1,000 head

1999	1.2	1.3	1.5	1.4	1.4	1.4	1.5	1.8	1.5	1.5	1.5	1.5	17.5
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

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

1999	674	662	766	712	706	768	784	915	742	733	732	753	8,946
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

Average farm price, dressed weight - cents per pound

1999	63.5	63.5	62.5	64.0	63.5	63.5	62.5	61.5	60.5	61.0	60.5	60.5	62.0
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

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, 1992-2003¹

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

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: Number of operations, number of milk cows, production, sales, price, and value, by counties, 1999-2003

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							
1999	⁴ 45	8,600	13,919	119.7	118.0	26.50	31,270
2000	⁴ 35	8,100	14,358	116.3	114.7	24.50	28,102
2001	⁴ 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
Counties:							
Hawaii/Kauai ⁵							
1999	⁴ 37	2,900	11,655	33.8	32.3	24.70	7,970
2000	⁴ 29	2,900	13,138	38.1	36.6	23.80	8,715
2001	⁴ 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
Honolulu							
1999	⁴ 8	5,700	15,070	85.9	85.7	27.20	23,300
2000	⁴ 6	5,200	15,038	78.2	78.1	24.80	19,387
2001	⁴ 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

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

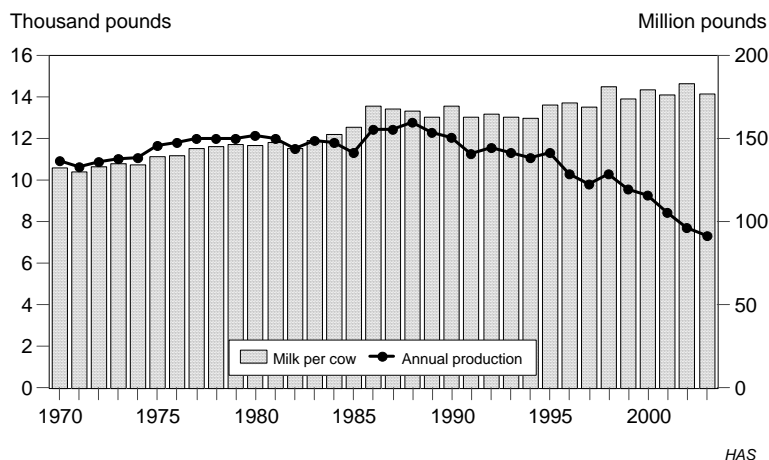
² Difference between "Production" and "Sold" is milk used on farms for human consumption, fed to calves or other uses.

³ Rounded to the nearest dime.

⁴ Revised.

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

MILK: Production and Milk per Cow Annual Basis, State of Hawaii, 1970-2003



MILK: Number of cows, milk production, price, and milk fat, State of Hawaii, 1999-2003

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

1999	8.7	8.6	8.6	8.6	8.5	8.5	8.5	8.6	8.6	8.6	8.6	8.5	8.6
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

Average monthly production per all cows in herd - pounds

1999	1,150	1,095	1,280	1,255	1,295	1,260	1,260	1,200	1,080	1,035	1,000	1,060	13,919
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

Milk production - million pounds

1999	10.0	9.4	11.0	10.8	11.0	10.7	10.7	10.3	9.3	8.9	8.6	9.0	119.7
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

Average price for milk sold to plants - dollars per hundredweight

1999	28.40	29.20	28.80	25.20	25.30	25.30	25.10	25.50	25.60	27.80	26.90	25.10	26.50
2000	23.80	23.90	23.50	24.40	24.70	24.80	25.20	24.70	24.70	24.70	24.60	25.00	24.50
2001	25.90	24.50	25.00	24.90	25.50	25.80	26.20	26.00	26.10	26.40	25.80	24.10	25.50
2002	24.00	24.10	23.70	23.80	23.70	23.40	23.30	23.30	23.30	23.50	23.70	23.40	23.60
2003	23.40	23.00	22.90	22.60	22.80	22.70	22.90	24.40	25.30	25.30	25.20	24.70	23.70

Average milk fat for milk sold to plants - percent

1999	3.52	3.45	3.44	3.49	3.48	3.41	3.47	3.45	3.53	3.54	3.53	3.57	3.49
2000	3.58	3.53	3.47	3.52	3.45	3.42	3.38	3.43	3.46	3.50	3.50	3.46	3.47
2001	3.46	3.45	3.43	3.36	3.41	3.38	3.39	3.42	3.43	3.45	3.52	3.50	3.43
2002	3.48	3.46	3.40	3.45	3.45	3.49	3.47	3.49	3.46	3.49	3.52	3.51	3.47
2003	3.47	3.52	3.44	3.40	3.41	3.42	3.47	3.48	3.53	3.59	3.61	3.63	3.49

HOGS

HOGS AND PIGS: December 1 inventory by classes and weight, State of Hawaii, 1999-2003

Year	All hogs and pigs	Breeding	Market				
			Total	Under 60 lbs.	60-119 lbs.	120-179 lbs.	180 lbs. and over
1,000 head							
1999	28	5	23	9	7	4	3
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

HOGS AND PIGS: December 1 inventory by class, by counties, 1999-2003

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			
1999	2.2	.5	1.7	1999	2.6	.3	2.3
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
Honolulu				Maui			
1999	18.4	3.4	15.0	1999	4.8	1.1	3.7
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

**HOGS: Number of operations, number and pounds sold, price, and value,
by counties, 1999-2003**

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>
State ³					
1999	230	35	6,300	80.50	5,072
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
Counties:					
Hawaii					
1999	70	3.8	734	77.50	569
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
Honolulu					
1999	70	22.1	3,880	81.00	3,143
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
Kauai					
1999	30	3.5	575	81.00	466
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
Maui					
1999	60	5.6	1,111	80.50	894
2000	60	5.9	1,176	79.50	935
2001	60	5.6	1,005	82.50	829
2002	60	5.0	1,035	81.00	838
2003	60	5.4	1,094	82.00	897

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.

HOGS

HOGS: Commercial slaughter and farm price, State of Hawaii, 1999-2003

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
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Number of head^{1 2} - 1,000 head

1999	2.8	2.9	3.0	3.1	2.9	3.0	3.1	2.9	3.0	2.9	2.9	3.6	36.0
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

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

1999	437	422	459	464	429	458	488	465	454	456	443	552	5,525
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

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

1999	108.5	108.0	107.0	107.0	105.0	106.5	107.0	106.5	107.5	107.5	106.0	106.5	107.5
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		113.0

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

1999	110.5	109.5	110.5	110.0	108.5	110.5	109.5	110.0	109.0	109.5	108.5	109.0	110.0
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 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	160.0	117.0	117.5	117.0	116.5	116.0	117.0	117.0	118.0	118.0	117.5		117.0

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.

⁵ Revised.

HOGS AND PIGS: Inventory and disposition, State of Hawaii, 1999-2003

Year	Inventory December 1 previous year	Annual pig crop	Inshipments ¹	Marketings ¹	Farm slaughter	Deaths	Inventory December 1
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1,000 head

1999	29	39	*	35	1	4	28
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

* = Less than 500 head.

¹ Excludes live hogs brought in for immediate slaughter.

2003 POULTRY AND EGG HIGHLIGHTS

Egg production for 2003 totaled 117.2 million eggs, fractionally below the 117.5 million eggs produced during 2002. This was the thirteenth consecutive year of decline and the lowest since 1958. The average number of layers on hand during 2003 was 507,000, the lowest since 1960 and the 15th consecutive year of decline.

Cash receipts from the sale of eggs during 2003 was \$9.4 million, 6 percent greater than 2002.

The total number of egg-type chickens on hand in Hawaii on December 1, 2003 was 600,000 birds, 4 percent below 2002. The 600,000 birds consisted of 486,000 layers and 114,000 non-laying pullets. The 486,000 layers was 7 percent less than a year ago.

CHICKENS: December 1 inventory by class, by counties, 1999-2003

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							
1999	721	404	184	588	70	63	*
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	*
Counties:							
Hawaii/Kauai/Maui ¹							
1999	153	92	56	148	0	5	*
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	*
Honolulu							
1999	568	312	128	440	70	58	*
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	*

* = 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, 1999-2003¹

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						
1999	⁵ 65	615	242	149.0	87.0	10,803
2000	⁵ 70	604	237	142.9	89.0	10,598
2001	⁵ 75	588	220	129.4	89.4	9,640
2002	80	539	218	117.5	90.4	8,852
2003	80	507	231	117.2	96.2	9,396
Counties:						
Hawaii/Kauai/Maui⁶						
1999	⁵ 50	143	240	34.4	104.0	2,982
2000	⁵ 55	150	239	35.9	104.5	3,127
2001	⁵ 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
Honolulu						
1999	15	472	243	114.6	81.9	7,821
2000	15	454	236	107.0	83.8	7,471
2001	15	440	219	96.5	82.9	6,666
2002	15	413	215	88.6	85.5	6,312
2003	15	391	225	88.1	92.5	6,789

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.

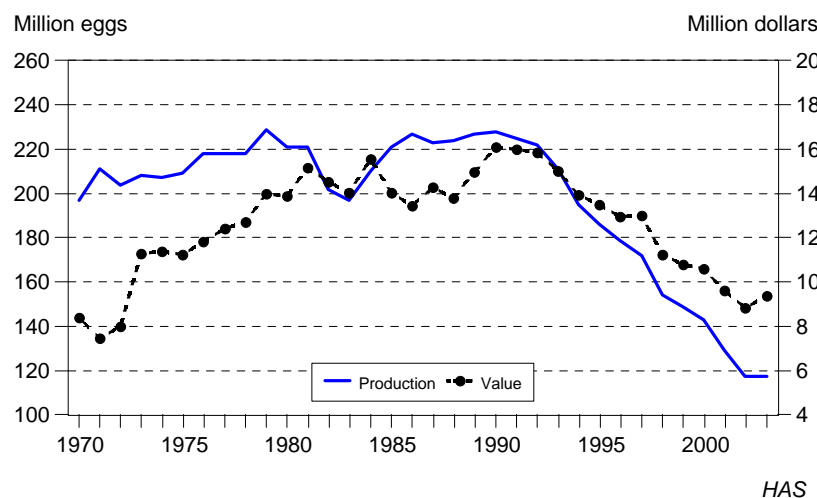
³ Equivalent delivered processing plant.

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, 1970-2003



EGGS: Number of layers, production, and price, State of Hawaii, 1999-2003

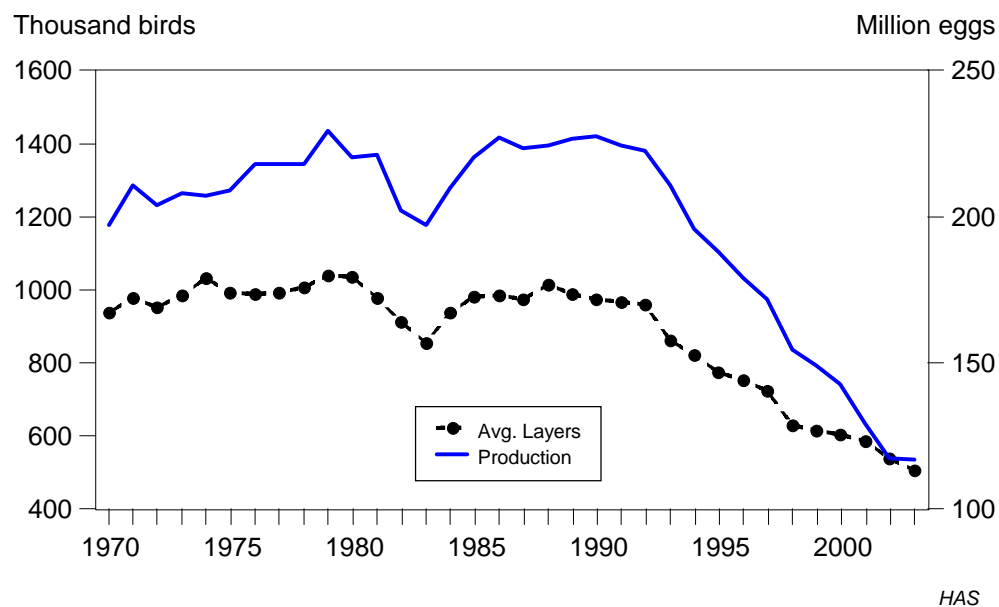
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average ¹
Average number of layers on hand during month - 1,000 layers													
1999	614	629	641	643	630	622	604	606	599	594	598	580	615
2000	580	596	615	615	607	610	603	607	604	612	621	616	604
2001	615	609	613	602	595	591	564	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		507
Egg production² - million eggs													
1999	12.7	11.8	13.3	13.1	13.1	12.5	12.2	11.9	11.9	12.1	11.6	12.1	149.0
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		117.2
Average farm price³ - cents per dozen													
1999	86.5	88.0	87.0	87.5	88.5	86.5	87.5	84.0	87.0	87.5	85.5	89.5	87.0
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	⁴ 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		96.2

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.

⁴ Revised.

CHICKENS: Production and Average Number of Layers, State of Hawaii, 1970-2003

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, 1999-2003

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>	
1999	28	8	80	640	15	80	173	512	26
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	113	791	11	143	182	1,131	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, 2000-2004

Year	All sheep and lambs	Breeding				Market			Lamb crop
		Total	Ewes 1 year +	Rams 1 year +	Replacement lambs	Total	Lambs	Sheep	
1,000 head									
2000	18	13	9	3	1	5	4	1	5
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

- AQUACULTURE
- AGRICULTURAL LABOR



LABOR

AGRICULTURAL LABOR: Workers on farms, annual and quarterly averages, State of Hawaii, 1999-2003¹

Year	Total farm employment			Hired workers by type of farm		
	Self-employed farm operators	Unpaid workers ²	Hired workers ³	Sugar	Pineapple	Other
1999	3,000	1,200	7,600	1,200	1,300	5,200
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
January	NA	NA	7,300	700	1,200	5,400
April	NA	NA	7,200	650	1,350	5,200
July	NA	NA	7,400	800	1,300	5,300
October	NA	NA	7,200	800	1,100	5,300

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, 1999-2003¹

Year	Self-employed farm operators	Unpaid workers ²	Hired workers	Year	Self-employed farm operators	Unpaid workers ²	Hired workers
Counties:							
Hawaii				Kauai			
1999	1,850	600	2,400	1999	250	100	900
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
Honolulu				Maui			
1999	500	300	2,100	1999	450	200	2,200
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

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

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

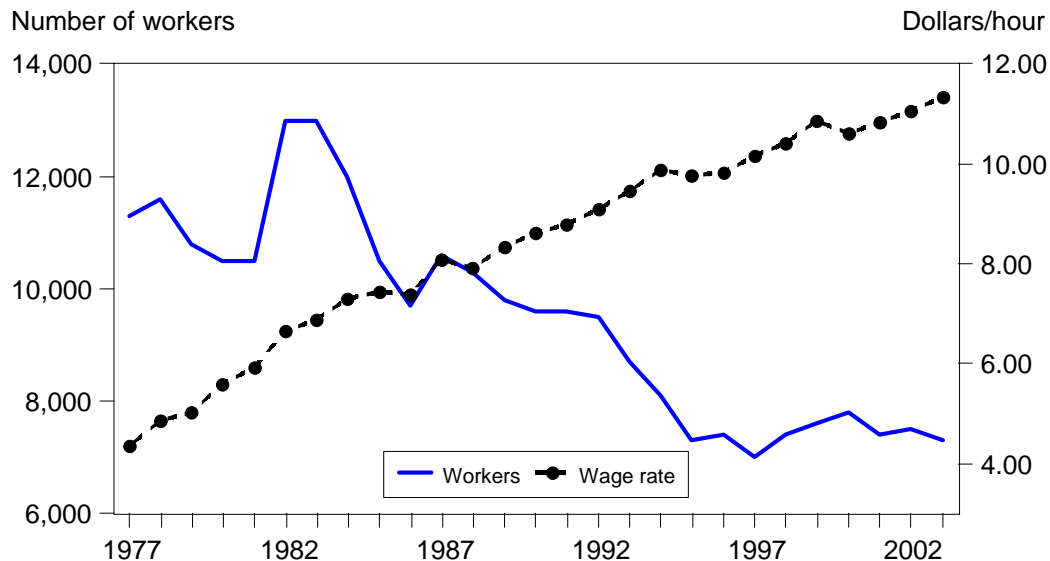
² Includes family members and others working 15 or more hours per week.

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, 1999-2003

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>				
1999	9.38	10.87	7.71	8.57
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
January	9.36	11.04	7.89	9.04
April	9.63	11.50	8.73	9.81
July	9.55	11.25	8.51	10.10
October	9.88	11.56	8.76	9.42

Hired Work Force and Average Wage Rate, State of Hawaii, 1977-2003



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.

HAS

AQUACULTURE

AQUACULTURE: Number of operations, production, and value, by counties, 1999-2003

Year	Number of operations	Production			Value				
		Shellfish ¹	Finfish	Algae	Shellfish	Finfish	Algae	Other ²	Total
----- 1,000 pounds ----- 1,000 dollars -----									
State									
1999	100	996	215	1,193	6,393	1,010	7,883	2,816	18,102
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
Counties:									
Hawaii									
1999	42	475	86	1,022	3,513	562	7,473	1,829	13,377
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
Honolulu									
1999	44	222	114	³	1,370	408	³	241	2,333
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
Kauai									
1999	4	³	³	³	³	³	³	³	³
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
Maui									
1999	10	³	³	³	³	³	³	³	³
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

-- Not applicable.

¹ Some shellfish products sold by pieces, pounds not given.

² Non-food products: ornamental fish, seed stock, other. Items not sold by weight.

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

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www.usda.gov/nass/

Where can I get more statistics or economic analysis?

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.

The World Agricultural Outlook Board (WAOB) issues regular forecasts of U.S. and world supply and demand prospects for major agricultural commodities.

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How can I get State publications from NASS field offices?

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Sources of Agricultural Information in USDA			
USDA - NASS Room 5829 South Building 1400 Independence Ave., SW Washington, D.C. 20250-2000		1-800-727-9540 FAX: 202-690-2090	Washington, D.C. E-mail: nass@nass.usda.gov Hawaii E-mail: nass-hi@nass.usda.gov Other Field Offices E-mail: nass-xx@nass.usda.gov (xx is the state abbreviation) Internet: www.usda.gov/nass/
USDA - ERS 1800 M Street, NW Washington, D.C. 20036-5831		202-694-5050 FAX: 202-694-5689	E-mail: service@ers.usda.gov Internet: www.ers.usda.gov
USDA - WAOB Room 4419 South Building 1400 Independence Ave., SW, Stop 3812 Washington, D.C. 20250-3812		202-720-5447 FAX: 202-690-1805	E-mail: rbridge@oce.usda.gov Internet: www.usda.gov/oce/waob/index.htm
Small Farm Program: USDA - CSREES 1400 Independence Ave., SW, Stop 2215 Washington, D.C. 20250-2215		1-800-583-3071 FAX: 202-690-3162	Internet: www.csrees.usda.gov/smallfarms
Farmer Direct Marketing Initiative: USDA - AMS - Transportation & Marketing Marketing Services Branch 1400 Independence Ave., SW Room 2646 Washington, D.C. 20250		202-720-8317 FAX: 202-690-0031	E-mail: Errol.Bragg@usda.gov Internet: www.ams.usda.gov/directmarketing
National specialists are available to answer your question by phone or E-mail. See these Internet sites for telephone numbers and E-mail addresses:			
Statistics from USDA, NASS		Internet: www.usda.gov/nass/nassinfo/speccomm.htm	
Economists in USDA, ERS		Internet: www.ers.usda.gov	

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.

STATE STATISTICAL OFFICES

TO REQUEST DATA FROM THE OTHER STATISTICAL OFFICES, WRITE: (STATE) AGRICULTURAL STATISTICS

ALABAMA

H. L. Vanderberry
P.O. Box 240578
Montgomery 36124
(334) 279-3555

IDAHO

D. G. Gerhardt
P.O. Box 1699
Boise 83701
(208) 334-1507

MINNESOTA

D. A. Hartwig
P.O. Box 7068
St. Paul 55107
(651) 296-2230

NEW YORK

S. C. Ropel
10B Airline Drive
Albany 12235
(518) 457-5570

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C. D. Anderson
P.O. Box 5068
Sioux Falls 57117
(605) 323-6500

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P.O. Box 799
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(907) 745-4272

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P.O. Box 19283
Springfield 62794
(217) 492-4295

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P.O. Box 980
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P.O. Box 27767
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(307) 432-5600

¹ Includes Connecticut, Maine, Massachusetts, Rhode Island, and Vermont.

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Cooperative Extension Service
Hawaii County Office
875 Komohana St.
Hilo, HI 96720
(808) 981-5199

Cooperative Extension Service
Kamuela Office
67-5189 Kamamalu Rd.
Kamuela, HI 96743
(808) 887-6183

Cooperative Extension Service
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79-7381 Mamalahoa Hwy
Kealahakua, HI 96750-7911
(808) 322-4896

Cooperative Extension Service
Maui Office
310 Kaahumanu Ave. Bldg. 214
Kahului, HI 96732
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PO Box 394
Hoolehua, HI 96729
(808) 567-6929

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Wahiawa, HI 96786
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Kaneohe Office
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Kaneohe, HI 96744
(808) 247-0421

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955 Kamehameha Hwy
Pearl City, HI 96782
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Cooperative Extension Service
Oahu County Office
1955 E West Rd. Ag Science 217
Honolulu, HI 96822
(808) 956-7138

USDA Hawaii County FSA Office
Room 219 & 221 Federal Bldg.
154 Waiianuenue Ave.
Hilo, HI 96720
(808) 933-8381

USDA Maui County FSA Office
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210 Imi Kala St. Suite 207
Wailuku, HI 96793
(808) 244-3100

USDA Kauai County FSA Office
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4334 Rice St. Rm 103
Lihue, HI 96766
(808) 245-9014

USDA Honolulu County FSA Office
99-193 Aiea Heights Drive Suite 114
Aiea, HI 96701
(808) 483-8609

INDUSTRY ASSOCIATIONS

ANTHURIUM

Hawaiian Anthurium Industry Association
P.O. Box 4755
Hilo, HI 96720

AQUACULTURE

Hawaii Aquaculture Association
Aquaculture Development Program
1177 Alakea St. Rm 400
Honolulu, HI 96813
(808) 587-0030

AVOCADO

Hawaii Avocado Association
P.O. Box 925
Kealahou, HI 96750
(808) 322-7873

AWA (KAWA)

Association for Hawaiian Awa
P.O. Box 636
Pepeekeo, HI 96783
(808) 965-8394

Hawaii Awa Council
P.O. Box 216
Kurtistown, HI 96760
(808) 968-6837

BANANA

Hawaii Banana Industry Association
421 Lama St.
Hilo, HI 96720
(808) 981-0805

BEEKEEPERS

Big Island Beekeepers Association
HC 1 Box 5296
Keaau, HI 96749
(808) 982-6431

Hawaii Beekeepers Association
3081 G Paty Drive
Honolulu, HI 96822
(808) 988-7203

CATTLE

Hawaii Beef Industry Council
91-2002 Fort Weaver Rd
Ewa Beach, HI 96706
(808) 672-5042

COFFEE

Kona Coffee Council
P.O. Box 2077
Kealahou, HI 96750
(808) 322-9445

Kona Pacific Farmers Cooperative
P.O. Box 309
Captain Cook, HI 96704
(808) 328-2411

Hawaii Coffee Association
75-5629 Kuakini Hwy Suite R #648
Kailua Kona, HI 96740
(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
P.O. Box 2152
Keaau, HI 96749
(808) 965-0704

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) 876-1667

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 2092
Keaau, HI 96749
(808) 965-5444

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
P.O. Box 1582
Hilo, HI 96721
(808) 961-6660

VEGETABLE

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

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

To order: Any of the above reports may be obtained by contacting the Hawaii Agricultural Statistics, 1428 South King Street, Honolulu, HI 96814-2512, (808) 973-9588.

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PHOTOGRAPHY ACKNOWLEDGEMENTS

- Cover photo: Pineapple field in central Oahu. Photo courtesy HAS staff.
- Fruits: Pineapple, courtesy of HAS staff, page 37.
- Vegetables: Romaine lettuce, Aloun Farms, central Oahu, courtesy of the Market Development Branch, Hawaii Department of Agriculture, Page 48.
- Special Statistics: Vegetable harvest (Daikon), Aloun Farms, central Oahu, courtesy of the Market Development Branch, Hawaii Department of Agriculture, page 86.