

**STATISTICS OF
HAWAII
AGRICULTURE
2005**

This year's cover photos (front and back) highlight the honey industry. Michael M. Kliks, Manoa Honey Company, provided the colorful image of an apiary operation.

STATISTICS OF HAWAII AGRICULTURE 2005

December 2006

A Partnership Between the



Hawaii
Department of Agriculture
Agricultural Development Division

United States
Department of Agriculture
National Agricultural Statistics Service



USDA, NASS, HAWAII FIELD OFFICE

"Fact Finders for Hawaii Agriculture"



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

A MESSAGE FROM THE STATE DIRECTOR

Farmers and ranchers are the primary information source for this publication and we truly are thankful and appreciate the cooperation they extend to us. We are aware and sensitive to the frequent contacts made to producers throughout Hawaii. Many options are available for producers to respond including responding by mail, facsimile, the Internet (for certain selected surveys), phone, and personal interviews. The vast majority of producers understand that farmers and ranchers are the very best source, often the only source, for the information required to meet specific data needs and publication results. We truly appreciate and thank all the agricultural producers and organizations who have so willingly and faithfully provided survey information.

A very important component of our data collection efforts is performed by our National Association of State Departments of Agriculture (NASDA) enumerators. They interview farmers and ranchers during peak survey periods and are quite worthy of special recognition for their significant contribution.

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

Our website, www.nass.usda.gov/hi/, contains all the data published by our office. This site contains this publication in electronic format along with other numerous commodity releases issued throughout the year. A new publication measuring language comprehension is included in this publication. This is the first study in the nation to measure the language comprehension of field workers.

Thank you,

A handwritten signature in black ink that reads "Mark E. Hudson". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Mark E. Hudson
Director, USDA NASS Hawaii Field Office





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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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TABLE OF CONTENTS

GENERAL	
Agricultural summary.....	2
Agriculture's contributions to Hawaii's economy 2000.....	17
Cooperative Extension Service county offices/USDA Farm Service Agencies.....	96
Definition of terms	91
Directory for information	93
Diversified agriculture ranking.....	7
Farm financial indicators	18
Food expenditures.....	14
Industry associations.....	97-98
List of publications.....	94
Major agricultural areas (Maps)	5-6
Photography acknowledgments	99
Record highs and lows.....	15-16
Sampling methods and estimation	92
State statistical offices.....	95

CROPS	
Acreage in crop and total farm acreage.....	8
Number of farms.....	9
Value of sales.....	11-12
Sugar and Specialty Crop Highlights	19
Coffee	20
Floriculture and nursery products.....	26-36
Ginger root	21
Herbs.....	22
Kava (‘awa)	21
Macadamia nuts	25
Seed crops	22
Sugarcane and sugar	23-24
Fruit Highlights	37
Avocados.....	42
Bananas	43-44
Guavas	47
Papayas	45-46
Pineapples.....	41-42
Tropical specialty fruit.....	39-40
Vegetable, Melon, and Taro Highlights	48
Beans, snap	51
Cabbage, Chinese.....	52,70
Cabbage, head.....	53
Celery	54
Corn, sweet	55
Cucumbers	56
Daikon	57,70
Eggplant	58
Lettuces	59
Onions, dry	60
Onions, green.....	61
Peppers, green.....	62
Romaine	63

Squash, Italian	64
Sweetpotatoes	65
Taro	66
Tomatoes	67
Watercress	70
Watermelons	68
Other vegetables.....	69

Market Supply:

Fruits	38
Vegetables	49-50

LIVESTOCK

Livestock Highlights	71
Number of farms	10
Value of sales.....	13

Cattle and Calves:

Commercial slaughter and farm price	76
Inventory and disposition	72-73, 75
Marketings.....	74, 76

Dairy:

Milk Marketings	77-78
-----------------------	-------

Equine:

Marketings.....	85
-----------------	----

Goats:

Marketings.....	85
-----------------	----

Honey and Beeswax:

Marketings.....	85
-----------------	----

Hogs and Pigs:

Commercial slaughter and farm price	81
Inventory and disposition	79, 81
Marketings.....	80

Sheep and Lambs:

Inventory	85
-----------------	----

Poultry and Egg Highlights

Chicken inventory.....	82
Egg marketings	83-84

MISCELLANEOUS STATISTICS

Agricultural theft and/or vandalism.....	89
Aquaculture	90
Special statistics.....	86

Agricultural Employment:

Wage rates.....	88
Workers on farms.....	87

Climatology:

Rainfall data	4
Weather review	3

Farm Revenue for 2005 Down 4 Percent from 2004

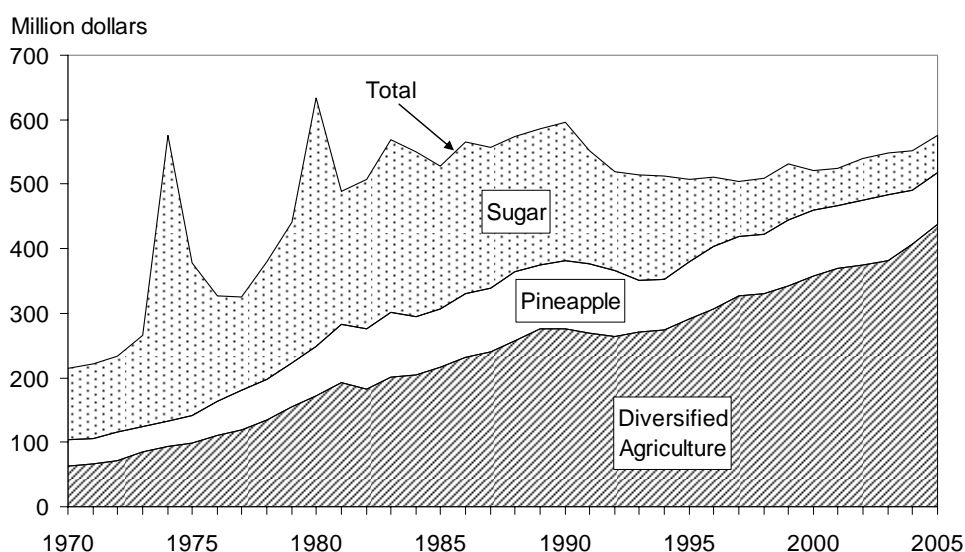
Farm level revenues for 2005 totaled \$576.2 million, up 4 percent from the previous year. Compared to the previous year, twelve of the 20 ranked commodities were higher including seed crops, macadamia nuts, coffee, cattle, algae, bananas, palms (potted), dracaena (potted), basil, anthuriums, hogs, and sweetpotatoes.

The value of diversified agriculture rose by 8 percent from 2004. Record high levels were set for the following diversified agriculture commodities: coffee, aquaculture, floriculture, and seed crops. Other diversified agriculture commodities showing gains included macadamia nuts, fruits (excluding pineapples), cattle, and hogs. Revenue declines for 2005 included milk, eggs, and other livestock and crops. Lower production was the main factor causing the revenue decline for these commodities.

The equivalent farm value for pineapples (this does not include the processed value added by processing) decreased to \$79.3 million, 5 percent below 2004 levels. Pineapple value of production was lower, mainly due to a drop in price.

The equivalent value of sugarcane (this does not include the processed value of raw sugar) was set at \$58.8 million, down 4 percent from 2004. Sugar value of production has fallen seven of the last ten years.

**Cash Receipts of Agricultural Commodities,
State of Hawaii, 1970-2005**



2005 WEATHER REVIEW

Dry Weather Dominates Most of 2005

Dry weather prevailed across the State during most of 2005 with twelve of the fourteen weather stations reporting below normal annual rainfall. Sporadic rainfall across the State brought some relief to the persistent drought conditions. Crop conditions varied with the lower precipitation. Dry conditions allowed for more field work and increased need for irrigation. Pasture conditions were generally lower from the previous year.

January-March

A low pressure system brought showers to all of the islands in early January. Rainfall was moderate to heavy across the State. A cold front in mid-January brought light showers and light to moderate winds. Another storm in late January brought moderate to heavy showers and cool temperatures.

The cool temperatures and heavy precipitation continued in early February. Dry, sunny weather with a few scattered showers and moderate to gusting trade winds prevailed in mid-February. Pleasant weather continued into late February with dry, sunny conditions and light to moderate winds. A high pressure system north of the islands continued the dry, sunny weather through the beginning of March. The ides of March brought gusty winds, moderate to heavy showers, and cool temperatures. The end of March saw mixed weather conditions with most of the State staying dry and a few places experiencing heavy rain. Seven of the fourteen primary weather stations with complete records reported higher than normal rainfall for the first quarter.

April-June

Variable weather prevailed in early April. Moderate trade winds and mostly sunny conditions dominated. Favorable weather conditions continued into mid-April. Most locations were dry with some isolated showers and moderate trade winds. Mostly dry conditions continued across the State at the end of April. Warm and humid conditions prevailed in early May with light winds and little rainfall. Mid-May saw warm, dry conditions with light winds across the islands. The end of May saw mostly sunny conditions with isolated showers and light winds. June weather began as warm and dry with isolated showers in windward and mountain areas. Dry conditions, favorable for crop growth, continued through most of the State into mid-June. Mixed conditions prevailed at the end of June. Some areas received substantial rainfall while others were primarily sunny, warm, and dry. None of the fourteen weather stations were above average rainfall for the period from April through June.

July-September

Light showers in windward and mountain areas, but otherwise warm and dry, was the prevailing weather condition in early July. Mid-July saw heavy showers in several locations. This precipitation brought some relief to parched crops and pastures. Mostly dry, sunny conditions prevailed at the end of July. Brisk trade winds with sunny, dry conditions dominated in early August. Isolated showers were limited to windward and mountain areas. Mid-August brought continued dry conditions in most areas with moderate trade winds. The Big Island received heavier rainfall than other portions

of the State. August finished with mostly dry conditions, sunshine, and light winds. Warm temperatures, light winds, and dry conditions dominated in early September. A passing storm system brought heavy rainfall to many areas across the State in mid-September. Flooding occurred in some areas of Kauai and the Big Island. September ended with continued heavy precipitation. The State also experienced warm temperatures and diminished trade winds. Eight of the fourteen weather stations experience above normal rainfall for the period from July 1st to the end of September.

October-December

Brisk trade winds, cooler temperatures, cloud cover, and locally heavy precipitation prevailed in early October. In mid-October, cool and breezy conditions with mostly sunny skies helped dry out the State after the heavy showers in the previous weeks. Heavy rainfall fell in many areas in late October. Crop and pasture conditions improved in many areas due to the precipitation, but flooding and excess moisture was a problem in others. November started with moderate to heavy winds and dry conditions across most of the State. Variable weather prevailed in mid-November with many areas getting light to moderate rainfall and moderate trade winds. December started out with light winds, sunny skies, and scattered showers. Cool temperatures and dry conditions prevailed in mid-December. Late December saw continued dry conditions and light winds. None of the fourteen weather stations reported above normal rainfall for the last quarter of 2005.

WEATHER: Precipitation, selected stations, State of Hawaii, 2005

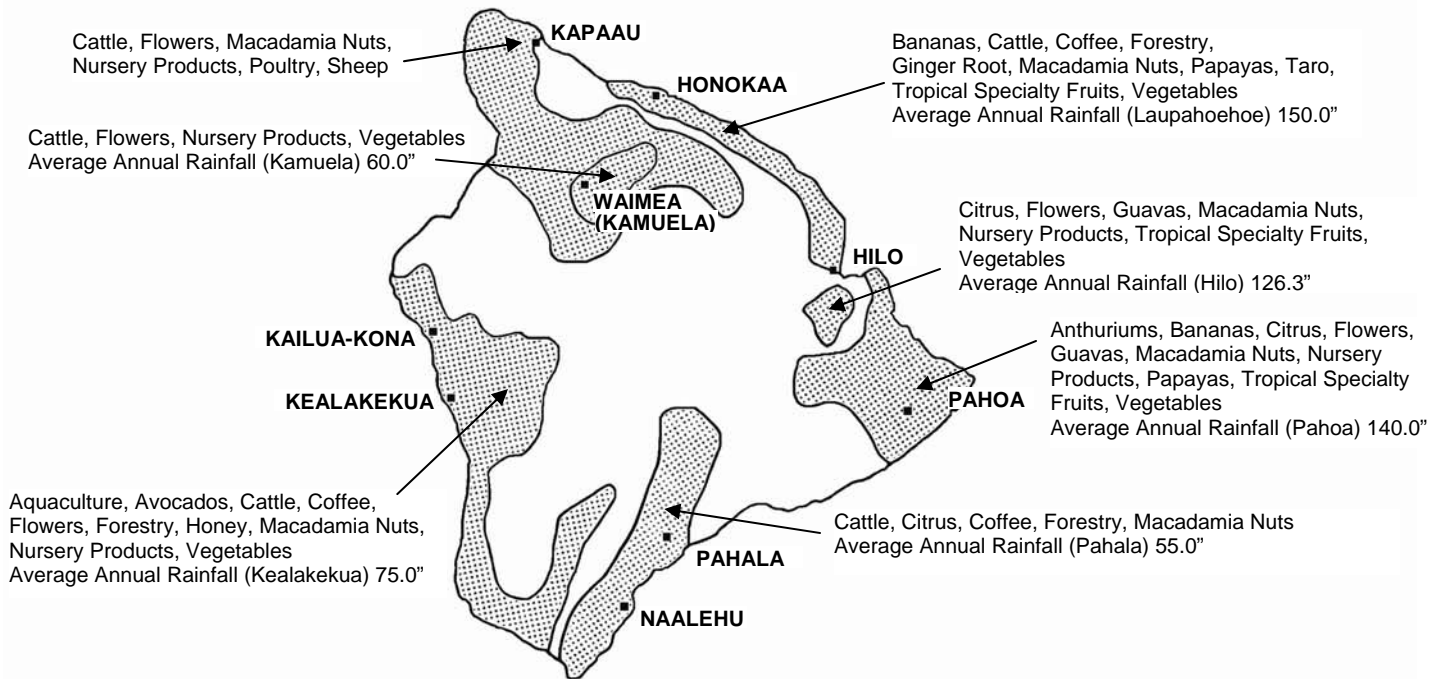
STATIONS	Year & normal	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual	% Annual normal
HAWAII COUNTY															
Hilo International Airport	Normal	9.7	8.9	14.4	12.5	8.1	7.4	10.7	9.8	9.1	9.6	15.6	10.5	126.3	
	2005	3.89	15.19	15.10	7.10	3.07	10.24	8.71	7.63	19.73	13.86	12.75	5.24	122.51	97.0
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	
	2005	5.22	2.49	8.80	1.57	.97	1.75	4.56	3.29	3.32	2.18	.64	4.44	39.23	65.4
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	
	2005	8.66	3.53	3.30	3.79	6.53	6.76	5.35	6.83	4.72	1.95	.40	2.05	53.87	71.8
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	
	2005	6.22	7.27	25.27	7.61	1.84	5.08	9.81	6.27	12.44	12.01	6.82	5.21	105.85	70.6
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	
	2005	7.43	7.08	3.14	.55	.24	1.43	.39	1.60	3.28	3.63	3.04	.74	32.55	59.2
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	
	2005	10.34	11.54	13.19	5.60	2.81	11.66	8.88	10.86	19.97	16.43	9.88	5.22	126.38	90.3
HONOLULU COUNTY															
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	
	2005	4.41	3.97	2.04	1.35	2.82	.98	1.62	.48	3.25	5.52	1.90	.01	28.35	63.0
Waianae (HI17)	Normal	3.8	2.3	2.5	1.6	.7	.3	.3	.7	.7	1.8	2.0	3.3	20.0	
	2005	7.21	2.03	1.68	.03	.26	.44	.28	.15	1.74	.75	1.96	.01	16.54	82.7
Waimanalo (HI13)	Normal	6.8	4.6	3.6	3.2	3.2	1.5	1.6	1.5	2.0	3.7	5.6	5.5	42.8	
	2005	8.35	3.63	11.26	.74	2.41	.53	1.23	.59	2.58	1.58	8.97	1.21	43.08	100.7
KAUAI COUNTY															
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	
	2005	12.05	7.40	3.70	.93	1.24	2.01	1.96	.80	3.21	2.95	1.21	.18	37.64	75.3
Hanalei (HI45)	Normal	11.8	9.4	13.4	12.2	9.3	6.5	9.8	8.7	6.9	8.5	10.2	12.0	118.7	
	2005	13.63	12.45	7.99	5.97	4.60	5.95	6.67	1.71	18.55	10.62	3.80	.32	92.26	77.7
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	
	2005	--	3.74	.84	--	1.86	4.43	4.04	1.68	6.92	7.97	2.41	.44	34.33	--
MAUI COUNTY															
Hana (HI61)	Normal	8.5	5.7	9.1	7.5	5.9	4.1	5.9	5.8	6.1	7.3	8.0	6.1	80.0	
	2005	11.78	7.22	--	6.77	3.37	6.67	5.49	2.48	10.39	5.76	7.89	2.40	70.22	--
Kula (HI65)	Normal	3.5	3.0	2.5	1.6	1.1	.8	.8	.8	1.1	1.5	2.3	3.3	22.3	
	2005	6.83	1.52	6.06	.13	2.03	.81	1.65	1.55	2.43	.93	1.57	.14	25.65	115.0
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	
	2005	--	--	--	--	--	.39	.54	.59	1.40	.71	2.36	.21	6.20	--
Molokai Airport	Normal	4.3	3.2	3.7	2.2	1.0	.5	.7	.7	.7	1.9	2.8	4.0	25.7	
	2005	9.11	2.11	4.83	.95	.38	.03	.14	.26	.73	.48	2.58	.77	22.37	87.0

-- = No record. Data not recorded.

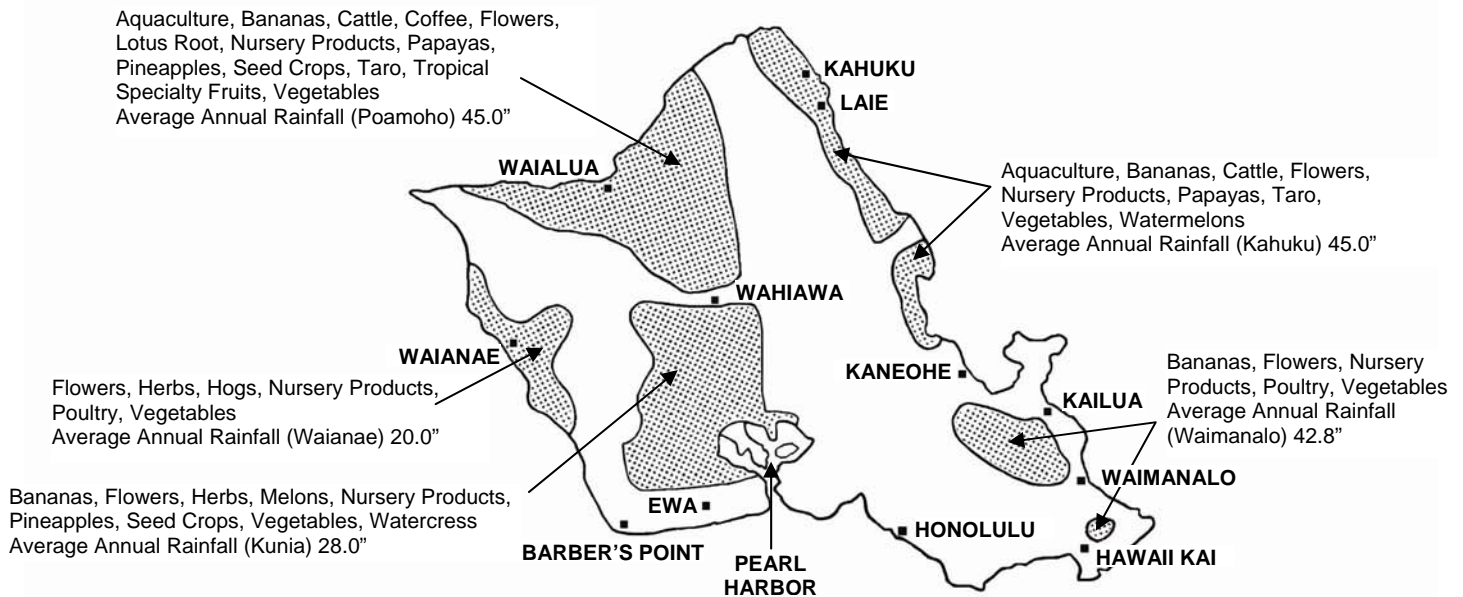
Source: U. S. Department of Commerce, National Oceanic and Atmospheric Administration. Most rainfall stations were selected from the National Weather Service's hydronet system of automated gauges, and those data have not been quality controlled to data, and therefore are not certified by the National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

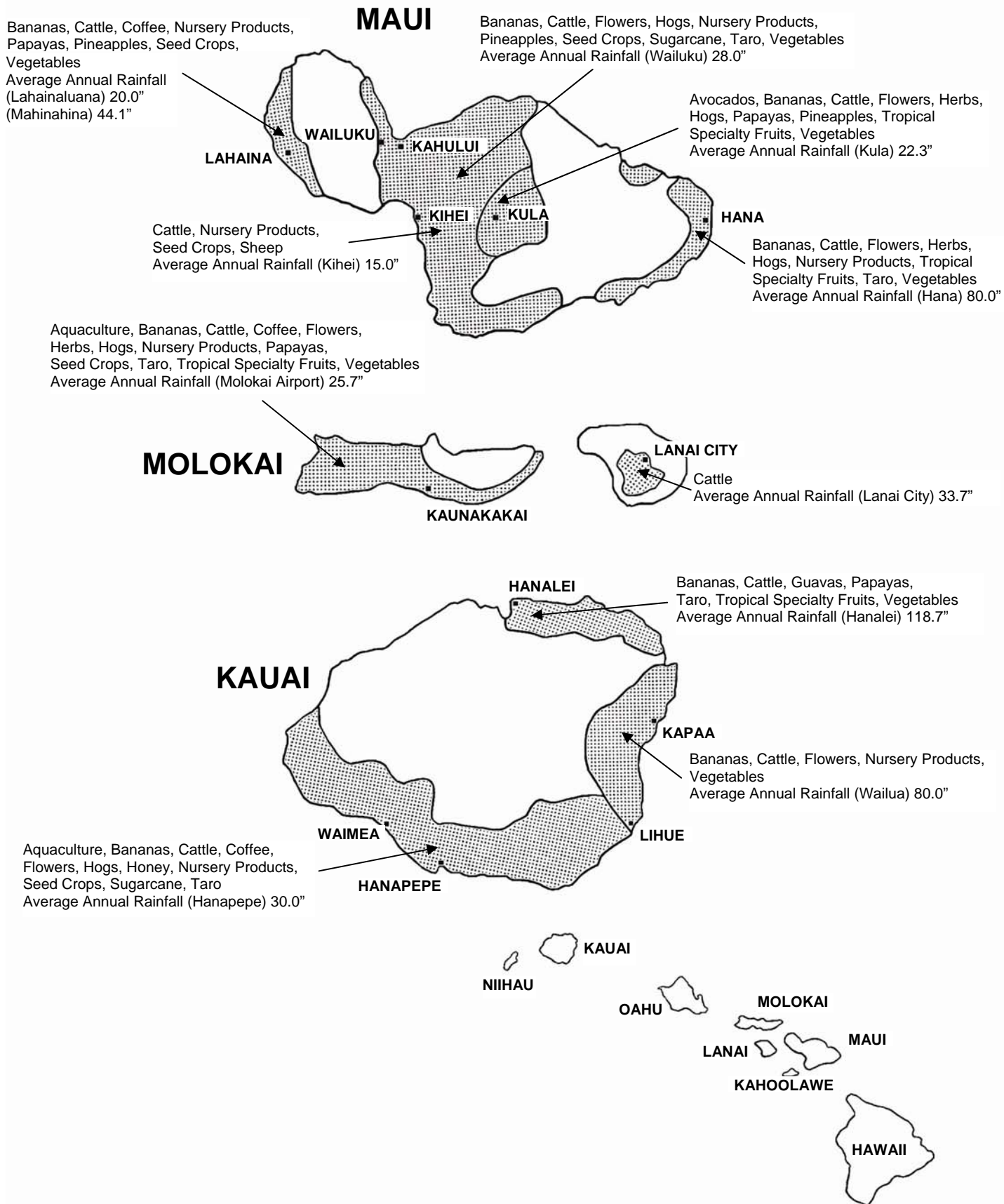
MAJOR AGRICULTURAL AREAS, STATE OF HAWAII, 2005

HAWAII



OAHU





SUMMARIES

Top 20 commodities, State of Hawaii, 2004-2005

Commodity ¹	Rank		Value of production	
	2004	2005	2004	2005
	--- Number ---		--- 1,000 dollars ---	

Pineapples (fresh equivalent)	1	1	83,104	79,288
Seed crops	2	2	62,600	70,400
Sugarcane (unprocessed)	3	3	61,500	58,800
Macadamia nuts	4	4	41,245	44,400
Coffee	7	5	19,880	37,310
Cattle	5	6	22,534	22,798
Milk	6	7	20,175	18,387
Algae	8	8	12,602	14,637
Papayas	9	9	12,361	11,241
Tomatoes	10	10	11,088	9,798
Bananas	12	11	8,085	9,175
Eggs	11	12	10,670	8,979
Palms, potted	13	13	7,311	8,141
Dracaena, potted	15	14	5,735	7,028
Dendrobiums, potted	14	15	6,679	5,992
Basil	18	16	4,640	5,595
Anthuriums	17	17	4,665	5,180
Hogs	19	18	4,463	4,553
Ginger root	16	19	5,400	4,080
Sweetpotatoes	27	20	2,162	3,843

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

Farm values, State of Hawaii, 1986-2005

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Diversified agriculture ¹	Total
	1,000 dollars			
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	² 370,241	² 524,378
2002	64,300	100,616	² 374,602	² 539,518
2003	64,400	101,470	382,253	548,123
2004	61,500	83,104	407,453	552,057
2005	58,800	79,288	438,086	576,174

¹ Aquaculture included beginning 1993.

² Revised.

Diversified agriculture ranked by value, State of Hawaii, 2004-2005

Commodity	Rank		Value of production			Percent of diversified agriculture	
	2004	2005	2004	2005	Year-to-year percent change	2004	2005
	--- Number ---		----- 1,000 dollars -----			----- Percent -----	
Flowers and nursery products	1	1	95,178	100,600	+6	23.4	23.0
Seed crops	3	2	62,600	70,400	+12	15.4	16.1
Vegetables and melons ¹	2	3	67,892	67,717	0	16.7	15.5
Macadamia nuts	4	4	41,245	44,400	+8	10.1	10.1
Coffee	9	5	19,880	37,310	+88	4.9	8.5
Aquaculture	5	6	28,100	28,398	+1	6.9	6.5
Fruits (excluding pineapples)	6	7	24,533	25,737	+5	6.0	5.9
Cattle	7	8	22,534	22,798	+1	5.5	5.2
Milk	8	9	20,175	18,387	-9	4.9	4.2
Eggs	10	10	10,670	8,979	-16	2.6	2.0
Hogs	11	11	4,463	4,553	+2	1.1	1.0
Other livestock and crops			10,183	8,807	-14	2.5	2.0
Total			407,453	438,086	+8	100.0	100.0

¹ Includes ginger root and herbs.

SUMMARIES

SUMMARY: Acreage in crop and total farm acreage, by county, 2001-2005

Year	Sugarcane	Pineapples ¹	Vegetables and melons ^{2 3}	Fruits (excluding pineapples)	Coffee	Macadamia nuts	All other crops ⁴	Total farm acreage ⁵
1,000 acres								
State ⁶								
2001	46.0	20.1	6.5	7.1	8.0	18.0	8.7	1,350
2002	47.5	19.1	6.8	6.6	7.2	18.0	8.2	1,320
2003	47.8	16.0	6.4	6.4	7.3	18.0	⁷ 9.3	1,300
2004	43.0	13.0	6.7	6.0	7.7	18.0	9.4	1,300
2005	40.1	14.0	6.3	6.2	8.0	18.3	9.1	1,300
County:								
Hawaii								
2001	0	*	2.0	4.5	3.4	⁸	2.1	840
2002	0	*	1.8	4.3	3.5	⁸	2.4	830
2003	0	*	1.6	4.1	3.6	⁸	⁷ 2.9	820
2004	0	*	1.7	3.8	3.8	⁸	3.0	820
2005	0	*	1.6	4.1	3.9	8	2.6	820
Honolulu								
2001	0	11.0	3.2	1.5	⁸	⁸	3.4	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
2004	0	7.5	3.8	.8	⁸	⁸	3.0	70
2005	0	⁸	3.5	.8	8	8	2.4	70
Kauai								
2001	10.6	*	.1	.8	⁸	⁸	1.4	170
2002	10.8	*	.3	.8	⁸	⁸	1.6	160
2003	11.1	*	.3	.8	⁸	⁸	⁷ 1.7	150
2004	8.2	*	.3	.9	⁸	⁸	1.7	150
2005	7.1	*	.2	.8	8	8	1.8	150
Maui								
2001	35.4	9.1	1.2	.3	⁸	⁸	1.8	270
2002	36.7	9.1	1.1	.4	⁸	⁸	1.5	260
2003	36.7	5.9	1.1	.5	⁸	⁸	⁷ 1.9	260
2004	34.8	5.5	.9	.5	⁸	⁸	1.7	260
2005	33.0	⁸	1.0	.5	8	8	2.3	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 county, 2001-2005

Year	Sugarcane	Pineapples ¹	Vegetables and melons ²	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Taro	Flowers and nursery products
State								
2001	2	15	575	1,059	700	650	170	790
2002	2	25	600	1,099	710	650	150	870
2003	2	25	570	1,426	715	650	150	865
2004	2	30	620	1,290	750	650	130	920
2005	2	30	600	1,265	790	650	110	905
County:								
Hawaii								
2001	0	6	270	585	675	³	60	360
2002	0	11	270	593	680	³	50	420
2003	0	11	230	746	690	³	40	395
2004	0	15	253	687	710	³	30	425
2005	0	³	215	664	745	3	30	405
Honolulu								
2001	0	2	160	142	³	³	15	220
2002	0	2	175	149	³	³	10	230
2003	0	2	190	179	³	³	15	230
2004	0	2	188	147	³	³	10	235
2005	0	³	213	159	3	3	10	245
Kauai								
2001	1	5	45	139	³	³	70	60
2002	1	7	55	153	³	³	65	65
2003	1	7	55	216	³	³	70	80
2004	1	8	72	196	³	³	65	80
2005	1	³	65	184	3	3	50	75
Maui								
2001	1	2	100	193	³	³	25	150
2002	1	5	100	204	³	³	25	155
2003	1	5	95	285	³	³	25	160
2004	1	5	107	260	³	³	25	180
2005	1	³	107	258	3	3	20	180

¹ Includes specialty pineapple.

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

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

SUMMARIES

SUMMARY: Number of livestock operations and total number of farms, by county, 2001-2005

Year	Cattle ¹	Hogs	Milk	Eggs	Honey	Total (non-duplicated) ²
State						
2001	750	230	30	75	30	5,500
2002	750	210	30	80	30	5,500
2003	750	210	30	80	29	5,500
2004	800	250	30	80	31	5,500
2005	800	230	30	80	34	5,500
County:						
Hawaii						
2001	440	70	14	35	14	3,250
2002	440	60	14	37	16	3,250
2003	440	60	14	37	14	3,250
2004	470	70	14	37	16	3,250
2005	470	70	14	37	20	3,250
Honolulu						
2001	50	70	6	15	³ 3	850
2002	50	70	6	15	³ 3	800
2003	50	70	6	15	³ 3	800
2004	50	80	6	15	³ 3	800
2005	50	70	6	15	3	800
Kauai						
2001	110	30	4	6	³ 16	550
2002	120	30	4	8	³ 14	600
2003	120	30	4	8	³ 15	600
2004	120	40	4	8	³ 15	600
2005	120	30	4	8	³ 14	600
Maui						
2001	150	60	6	19	³ 3	850
2002	140	50	6	20	³ 3	850
2003	140	50	6	20	³ 3	850
2004	160	60	6	20	³ 3	850
2005	160	60	6	20	3	850

¹ Includes beef, dairy, and dairy replacement operations.

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

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

SUMMARIES

SUMMARY: Value of crop sales, by county, 2001-2005

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables, ginger root, herbs, and melons ¹	Fruits (excluding pineapples)	Coffee (parchment)
<i>1,000 dollars</i>					
State ⁴					
2001	57,800	96,337	62,043	30,190	19,600
2002	64,300	100,616	61,659	25,267	23,250
2003	64,400	101,470	64,173	26,819	24,070
2004	61,500	83,104	67,892	24,533	19,880
2005	58,800	79,288	67,717	25,737	37,310
County:					
Hawaii					
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
2004	0	5	18,859	18,504	14,880
2005	0	5	18,172	18,348	31,030
Honolulu					
2001	0	69,222	32,601	7,538	5
2002	0	70,992	36,533	3,750	5
2003	0	71,029	37,213	3,748	5
2004	0	54,704	37,661	2,791	5
2005	0	5	38,725	3,714	5
Kauai					
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
2004	15,300	5	1,740	1,922	5
2005	14,700	5	1,670	1,638	5
Maui					
2001	44,900	27,115	10,125	921	5
2002	51,300	29,624	9,644	1,270	5
2003	50,900	30,441	10,229	1,451	5
2004	46,200	28,400	9,632	1,316	5
2005	44,100	5	9,150	2,037	5

See footnotes at end of table.

Continued

SUMMARIES

SUMMARY: Value of crop sales, by county, 2001-2005 -- Continued

Year	Macadamia nuts (in-shell)	Taro	Seed crops	Flowers and nursery products ²	Total crops ³
<i>1,000 dollars</i>					
State⁴					
2001	33,040	3,392	45,000	88,597	437,438
2002	30,210	3,294	48,145	95,715	453,400
2003	32,330	2,700	49,160	95,601	461,680
2004	41,245	2,808	62,600	95,178	459,702
2005	44,400	2,322	70,400	100,600	487,249
County:					
Hawaii					
2001	5	443	5	50,637	134,380
2002	5	415	5	49,870	128,426
2003	5	335	5	50,206	132,331
2004	5	288	5	50,414	143,972
2005	5	168	5	53,487	165,465
Honolulu					
2001	5	5	5	26,198	146,504
2002	5	5	5	32,106	153,725
2003	5	5	5	31,092	154,228
2004	5	5	5	32,173	138,878
2005	5	5	5	32,406	136,129
Kauai					
2001	5	2,258	5	1,864	38,292
2002	5	2,189	5	2,633	40,854
2003	5	1,760	5	3,067	47,077
2004	5	2,079	5	3,056	47,652
2005	5	1,643	5	2,991	47,172
Maui					
2001	5	5	5	9,898	118,262
2002	5	5	5	11,106	130,395
2003	5	5	5	11,236	128,043
2004	5	5	5	9,535	129,200
2005	5	5	5	11,716	138,483

¹ Includes noni, kava ('awa), and others.

² Flowers, foliage, and nursery products.

³ Total crop values shown for individual counties are actual. Sum of individual commodities may not add to total. Forage crops' and forest product's value combined and included in total crop value.

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

⁵ 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, 2001-2005

Year	Cattle ¹	Hogs ¹	Milk	Eggs	Aquaculture	Total livestock and aquaculture ²	Total crops, livestock, and aquaculture	Government payments ³
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1,000 dollars

State ⁴

2001	18,007	4,514	26,546	9,637	22,200	86,940	524,378	3,860
2002	18,326	4,788	22,467	8,854	25,180	86,118	539,518	1,916
2003	17,192	4,345	21,449	9,396	27,650	86,443	548,123	1,483
2004	22,534	4,463	20,175	10,670	28,100	92,355	552,057	2,392
2005	22,798	4,553	18,387	8,979	28,398	88,925	576,174	4,727

County:

Hawaii

2001	13,438	465	5	5	16,198	42,076	176,456	NA
2002	13,724	560	5	5	17,329	44,554	172,980	NA
2003	13,811	440	5	5	19,639	46,900	179,231	NA
2004	16,873	407	5	5	21,211	51,627	195,599	NA
2005	16,924	319	5	5	20,179	50,474	215,939	NA

Honolulu

2001	604	2,848	18,920	6,663	2,815	33,770	180,274	NA
2002	572	2,960	14,401	6,314	4,179	30,232	183,957	NA
2003	203	2,594	13,502	6,789	4,674	29,298	183,526	NA
2004	681	2,715	12,350	8,131	5,201	30,297	169,175	NA
2005	1,414	2,762	10,870	6,705	4,793	26,766	162,895	NA

Kauai

2001	1,527	372	5	5	5	5,092	43,384	NA
2002	1,442	430	5	5	5	5,278	46,132	NA
2003	912	414	5	5	5	4,139	51,216	NA
2004	1,965	482	5	5	5	3,921	51,573	NA
2005	1,731	592	5	5	5	3,237	50,409	NA

Maui

2001	2,438	829	5	5	5	6,002	124,264	NA
2002	2,588	838	5	5	5	6,054	136,449	NA
2003	2,266	897	5	5	5	6,106	134,149	NA
2004	3,015	859	5	5	5	6,510	135,710	NA
2005	2,729	880	5	5	5	8,448	146,931	NA

NA= Not available.

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

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

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

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

⁵ Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

FOOD EXPENDITURES

FOOD: U.S. expenditures by families and individuals, selected years, 1929-2005

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	⁴ 274.8	⁴ 6.8	⁴ 166.0	4.1	⁴ 440.9	⁴ 11.0
1994	5,151.8	⁴ 337.0	⁴ 6.5	⁴ 216.0	4.2	⁴ 553.0	⁴ 10.7
1999	6,695.0	⁴ 409.2	⁴ 6.1	⁴ 271.2	⁴ 4.1	⁴ 680.3	10.2
2003	⁴ 8,169.2	⁴ 472.7	⁴ 5.8	⁴ 328.2	4.0	⁴ 801.0	⁴ 9.8
2004	8,664.2	493.5	5.7	348.0	4.0	841.5	9.7
2005	9,038.6	524.3	5.8	369.8	4.1	894.1	9.9

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.

⁴ Revised.

Source: Economic Research Service, USDA.

RECORD HIGHS AND LOWS

Record highs and lows for selected items, State of Hawaii

Item	Unit	Record high		Record low		Year estimate started
		Quantity	Year ¹	Quantity	Year ¹	
Anthuriums						
Total sold	1,000 doz.	2,532	1980	216	1959	1959
Price ²	\$/doz.	9.09	1997	.71	1967	1959
Avocados						
Harvested	Acres	330	1986	90	1975	1946
Production	1,000 lbs.	1,600	1982	400	1996	1946
Price ²	¢/lb.	66.0	2005	6.1	1959	1946
Bananas						
Harvested	Acres	1,490	2001	550	1977	1946
Production	1,000 lbs.	29,000	2000	4,470	1983	1946
Price ²	¢/lb.	49.0	2004	4.6	1946	1946
Cabbage, head						
Harvested	Acres	740	1947	360	2004	1946
Production	1,000 lbs.	15,750	1989	6,800	1953	1946
Price ²	¢/lb.	28.0	2005	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.	455.0	2005	17.8	1946	1946
Foliage, potted (indoor)						
Sales (value)	\$1,000	19,236	2001	171	1972	1972
Ginger Root						
Harvested	Acres	360	2001	11	1974	1946
Production	1,000 lbs.	18,000	2001	352	1974	1946
Price ²	¢/lb.	92.3	1982	16.2	1949	1946
Guavas						
Harvested	Acres	1,040	1990	60	1957	1955
Production	1,000 lbs.	24,100	1990	1,737	1957	1955
Price ²	¢/lb.	15.0	2002	3.1	1956	1955
Macadamia nuts						
Harvested	Acres	19,300	1995	830	1953	1946
Production (<i>net, wet-in-shell</i>)	1,000 lbs.	60,000	2005	630	1946	1946
Price ² (<i>net, wet-in-shell</i>)	¢/lb.	90.0	1988	15.2	1946	1946
Papayas						
Harvested	Acres	2,650	1985	320	1952	1946
Production	1,000 lbs.	80,500	1984	5,525	1947	1946
Price ²	¢/lb.	48.9	1997	3.2	1946	1946

See footnotes at end of table.

Continued

RECORD HIGHS AND LOWS

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

Record highs and lows for selected items, State of Hawaii Continued						
Item	Unit	Record high		Record low		Year estimate started
		Quantity	Year ¹	Quantity	Year ¹	
Pineapples						
Total in crop	Acres	76,700	1957	13,000	2004	1946
Production	1,000 tons	1,048	1955	212	2005	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	4,000	2005	1946
Price ²	¢/lb.	54.0	2005	3.1	1949	1946
Tomatoes						
Harvested	Acres	660	2005	150	1972	1946
Production	1,000 lbs.	17,500	2003	3,300	1972	1946
Price ²	¢/lb.	69.0	2005	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.	27.0	2005	6.4	1955	1946
Cattle and calves						
Jan. 1 inventory	Head	249,000	1971	130,000	1946	1946
Production (live weight)	1,000 lbs.	64,750	1989	25,470	1953	1946
Price ²	\$/cwt.	76.20	2005	12.30	1946	1946
Hogs and pigs						
Dec. 1 inventory	Head	72,000	1965	19,000	2005	1960
Production (live weight)	1,000 lbs.	13,159	1978	5,070	2005	1960
Price ²	\$/cwt.	89.80	2005	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.	27.00	2005	6.75	1946	1946
Eggs						
Layers Dec. 1	Birds	1,037,000	1974	302,000	1950	1950
Production	Million eggs	229.3	1979	114.5	2005	1958
Price ²	¢/doz.	108.0	2004	39.2	1968	1958

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

² Prices are annual or crop-year average.

³ Primary data source, Hawaii Agricultural Research Center.

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

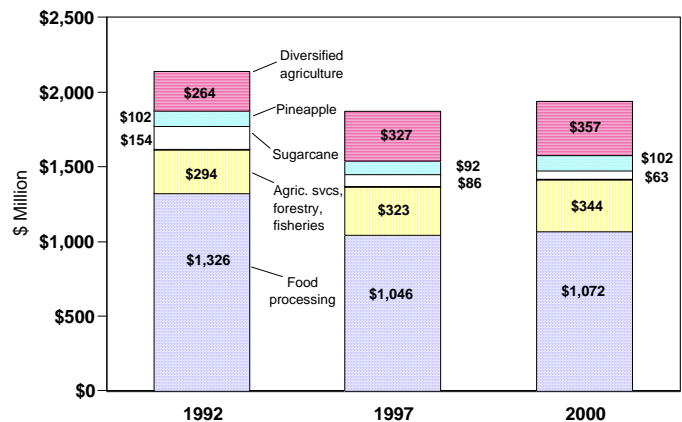
Employment (the number of full and part-time jobs) provides another good indicator in measuring the contribution of an industry to the economy. In 1992, agriculture contributed 4.2% of total employment in the state, but it declined slightly to 3.7% in 1997, before reversing the trend and rising to 3.8% 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, 2001-2005

	2001	2002	2003	2004 ¹	2005 ¹
<i>1,000 dollars</i>					
Farm assets	4,025,315	4,175,231	4,463,007		
Farm debt ²	265,216	276,628	282,687		
Real estate	144,793	155,693	161,281		
Nonreal estate	120,423	120,935	121,406		
Equity	3,760,099	3,898,603	4,180,320		
Ratio:					
Debt/equity	7.1	7.1	6.8		
Debt/assets	6.6	6.6	6.3		

¹ Data discontinued.

² 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, 2001-2005

Item ¹	2001	2002	2003	2004	2005
<i>1,000 dollars</i>					
Value of crop production	437,496	453,815	461,215	456,550	468,748
Value of livestock production	89,559	85,257	89,549	92,361	92,025
Revenues from services and forestry	58,061	64,231	70,807	76,304	75,273
Machine hire and customwork	9,521	11,563	15,715	17,598	14,892
Forest products sold	200	400	400	400	400
Other farm income	15,438	19,789	20,673	22,920	22,513
Gross imputed rental value of farm dwellings	32,902	32,479	34,019	35,386	37,468
Value of agricultural sector production	585,116	603,303	621,571	625,215	636,047
less: Purchased inputs	211,059	210,959	223,512	232,721	265,152
Farm origin	45,392	48,275	48,250	51,830	49,505
Manufactured inputs	62,750	59,844	66,760	75,832	98,319
Other purchased inputs	102,917	102,840	108,502	105,059	117,328
plus: Net government transactions	(3,601)	(5,017)	(5,777)	(5,316)	(3,849)
Gross value added	370,455	387,327	392,281	387,178	367,045
less: Capital consumption	38,314	39,202	40,168	43,170	44,726
Net value added ¹	332,141	348,125	352,113	344,008	322,319
less: Payments to stakeholders	206,802	211,794	211,189	220,760	219,027
Employee compensation (total hired labor)	176,603	182,604	182,100	190,511	186,561
Net rent received by nonoperator landlords	11,088	10,872	11,228	11,635	10,922
Real estate and nonreal estate interest	19,111	18,318	17,861	18,614	21,544
Net farm income ¹	125,339	136,331	140,924	123,248	103,292

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 National Economy and is the sum of the income from production earned by all factors-of-production, regardless of ownership. 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.

2005 SUGAR AND SPECIALTY CROP HIGHLIGHTS

SUGAR

Sugar production for 2005 decreased 2 percent from the previous year to 253,000 tons of 96° raw sugar. The plantations were able to harvest 1.8 million tons of sugarcane from 21,700 acres with an average yield of 80.7 tons of sugarcane per acre. Sugar prices during 2005 decreased 2 percent to \$347 per ton of 96° raw sugar, which generated a total value of \$87.9 million for raw sugar, 4 percent below 2004.

COFFEE

Total farm revenue of Hawaii's 2005-2006 coffee season is estimated at a record high \$37.3 million (parchment basis), up 88 percent from the 2004-2005 season and 32 percent more than the previous record high of \$28.2 million achieved during the 1997-1998 season. The record revenue resulted from a 46 percent increase in production to 8.2 million pounds (parchment basis) and a record high average farm price of \$4.55 per pound (parchment equivalent).

Most of the increase in production during the 2005-2006 season occurred on the Big Island where frequent showers produced multiple rounds of flowerings. Rainfall readings at Kainaliu, located in the middle of the North and South Kona districts, showed numerous months of above-normal, or near-normal, totals from late 2004 through 2005. The frequent showers not only triggered heavy flowering, but also helped to ensure a good fruit set rate. Production got an additional boost from acreages planted in the past five years that are continuing to mature. These recent plantings have relatively high tree densities than produce yields above the industry average.

Hawaii Island production is estimated at 5.8 million pounds (parchment basis) for the 2005-2006 season, up 81 percent from the previous season. The counties of Kauai, Maui, and Honolulu combined for a total of 2.4 million pounds (parchment basis) during the 2005-2006 season, unchanged from the previous season.

MACADAMIA NUTS

Hawaii's 2005-2006 macadamia nut harvest is estimated at 60.0 million pounds net, wet-in-shell, up 3.5 million pounds from last season's harvest. Weather for 2005 was mixed but generally favorable toward macadamia nut orchards. Overall yields averaged 3,330 pounds per acre (net, wet-in-shell), 5 percent higher than the 2004-2005 crop year. As with the previous season, immature nuts ranked as the highest cause of losses.

Total acreage for 2005-2006 increased 300 acres to 18,300 acres while harvested area totaled 18,000 acres up 200 acres from last season. The farm price for net, wet-in-shell macadamia nuts averaged 74.0 cents per pound, a penny more than the 2004-2005 average.

COFFEE: Number of farms, acreage, yield, marketings, price, and value, by county, 2001/2002-2005/2006 crop years

Crop year ¹	Farms	Acreage		Yield per acre 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										
2001-2002	700	8,000	6,300	1.3	8,000			245.0	19,600	6,400
2002-2003	710	7,200	5,900	1.3	7,500			310.0	23,250	5,900
2003-2004	715	7,300	5,900	1.4	8,300			290.0	24,070	6,600
2004-2005	750	7,700	5,800	1.0	5,600			355.0	19,880	4,500
2005-2006	790	8,000	6,100	1.3	8,200			455.0	37,310	6,600
County:										
Hawaii										
2001-2002	675	3,430	2,850	1.1	3,100	85.0	425.0	425.0	13,175	2,500
2002-2003	680	3,500	2,850	1.4	4,100	90.0	405.0	390.0	15,990	3,200
2003-2004	690	3,600	3,000	1.3	4,000	85.0	365.0	380.0	15,200	3,200
2004-2005	710	3,750	3,300	1.0	3,200	110.0	660.0	465.0	14,880	2,600
2005-2006	745	3,900	3,300	1.8	5,800	120.0	670.0	535.0	31,030	4,700
Honolulu/Kauai/Maui⁵										
2001-2002	25	4,570	3,450	1.4	4,900			131.0	6,425	3,900
2002-2003	30	3,700	3,050	1.1	3,400			213.5	7,260	2,700
2003-2004	25	3,700	2,900	1.5	4,300			206.3	8,870	3,400
2004-2005	40	3,950	2,500	1.0	2,400			208.3	5,000	1,900
2005-2006	45	4,100	2,800	.9	2,400			261.7	6,280	1,900

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

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

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

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

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

GINGER ROOT, KAVA (AWA)

Hawaii's ginger root farmers harvested 4.3 million pounds during the 2005-2006 season, down 16 percent from the 2004-2005 season and the smallest crop since the 1981-1982 harvest. The average farm price is estimated at 70.0 cents per pound during the 2005-2006 season, down 13 percent from the previous season's farm price of 80.0 cents per pound. Total farm value of the 2005-2006 harvest is estimated at \$3.0 million, down 26 percent from the 2004-2005 season.

Ginger root growers harvested 100 acres during the 2005-2006 season, down 17 percent from the previous season and the lowest total in 24 years. The decline in harvested acreage more than offset an increase in yields due to improved weather conditions. Bacterial wilt (*Pseudomonas solanacearum*), rootknot nematodes (*Meloidogyne javanica*), and relatively low farm prices have contributed to the reduction in acreage.

GINGER ROOT: Acreage, yield, production, price, and value, State of Hawaii, 2001/2002-2005/2006 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
2001-2002	320	45.0	14,400	30.0	4,320
2002-2003	160	37.5	6,000	60.0	3,600
2003-2004	150	40.0	6,000	90.0	5,400
2004-2005	120	42.5	5,100	80.0	4,080
2005-2006	100	43.0	4,300	70.0	3,010

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

GINGER ROOT: U.S. imports, 2001-2005

Year	Unground (including fresh)	Ground	Sweet	Candied	Total ¹
					1,000 pounds
2001	39,682	2,255	2,649	2,151	46,737
2002	44,306	2,244	3,315	3,017	52,882
2003	57,548	2,740	4,828	3,137	68,252
2004	59,162	4,603	5,784	2,957	72,506
2005	66,859	3,743	7,582	3,470	81,654

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, 2001-2005

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
2001	65	70	35	450	1.30	585
2002	55	50	15	60	1.15	69
2003	25	20	10	25	4.40	110
2004 ⁵						
2005⁵						

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 type of sales, including organic. ⁴ Represents average farm price for fresh sales. ⁵ Beginning 2004, data series discontinued.

HERBS, SEED CROPS

FRESH HERBS: Production, price, and value, State of Hawaii, 2001-2005

Year	Basil			Parsley	Chinese parsley (Cilantro)	Other herbs ¹	All herbs
	Sweet (Italian)	Asian	Total				

Production – 1,000 pounds

2001	1,500	650	2,150	330	100	620	3,200
2002	2,000	1,000	3,000	300	300	550	4,150
2003	2,000	1,200	3,200	310	250	440	4,200
2004	1,800	1,000	2,800	280	240	580	3,900
2005	1,700	1,300	3,000	250	200	950	4,400

Farm price – dollars per pound

2001	2.00	.80		2.00	2.10	2.45	
2002	1.95	.85		1.70	1.50	2.30	
2003	2.00	.80		2.20	2.10	2.45	
2004	2.05	.95		2.00	2.20	2.15	
2005	2.45	1.10		1.85	2.60	2.15	

Farm value – 1,000 dollars

2001	3,000	520	3,520	660	210	1,519	5,909
2002	3,900	850	4,750	510	450	1,265	6,975
2003	4,000	960	4,960	682	525	1,078	7,245
2004	3,690	950	4,640	560	528	1,247	6,975
2005	4,165	1,430	5,595	463	520	2,043	8,621

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, 2001/2002-2005/2006

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>		
2001-2002	7	3,100	730	2,240	130	5,600	45,000	43,900	1,100
2002-2003	7	3,900	1,210	2,580	110	5,850	48,145	47,060	1,085
2003-2004	10	3,900	1,045	2,730	125	6,500	49,160	47,435	1,725
2004-2005	10	3,680	1,090	2,450	140	6,900	62,600	60,200	2,400
2005-2006	10	4,220	1,290	2,800	130	8,000	70,400	68,100	2,300

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 county, 2001-2005¹

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								
2001	2	46.0	19.3	97.3	12.76	1,878	30.80	57.8
2002	2	47.5	21.3	99.0	12.67	2,109	30.50	64.3
2003	2	47.8	19.9	102.0	13.15	2,030	31.70	64.4
2004	2	43.0	21.8	90.8	11.83	1,979	31.10	61.5
2005	2	40.1	21.7	80.7	11.61	1,751	33.60	58.8
County:								
Kauai								
2001	1	10.6	4.2	92.1	13.04	387	33.40	12.9
2002	1	10.8	4.8	86.5	11.40	415	31.30	13.0
2003	1	11.1	4.2	92.6	13.19	389	34.70	13.5
2004	1	8.2	4.9	87.8	12.06	430	35.60	15.3
2005	1	7.1	5.1	82.7	11.70	422	34.80	14.7
Maui								
2001	1	35.4	15.1	98.7	12.68	1,491	30.10	44.9
2002	1	36.7	16.5	102.7	13.04	1,694	30.30	51.3
2003	1	36.7	15.7	104.5	13.14	1,641	31.00	50.9
2004	1	34.8	16.9	91.7	11.77	1,549	29.80	46.2
2005	1	33.0	16.6	80.1	11.58	1,329	33.20	44.1

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

SUGAR: Production of raw sugar and molasses, price, and value, by county, 2001-2005 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							
2001	246	86	351	49.70	86.4	4.2	90.6
2002	270	90	355	49.40	95.9	4.4	100.3
2003	261	90	367	35.20	95.9	3.1	99.0
2004	258	80	355	29.50	91.7	2.4	94.1
2005	253	72	347	63.10	87.9	4.5	92.4
County:							
Kauai							
2001	55	14	349	53.00	19.2	.7	19.9
2002	54	16	359	45.90	19.4	.7	20.1
2003	55	15	365	34.90	20.1	.5	20.6
2004	59	15	386	40.00	22.8	.6	23.4
2005	60	15	365	75.00	21.9	1.1	23.0
Maui							
2001	191	72	352	49.00	67.2	3.5	70.7
2002	216	74	354	50.10	76.5	3.7	80.2
2003	206	75	368	35.30	75.8	2.6	78.4
2004	199	65	346	27.10	68.9	1.8	70.7
2005	193	57	342	60.00	66.0	3.4	69.4

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.

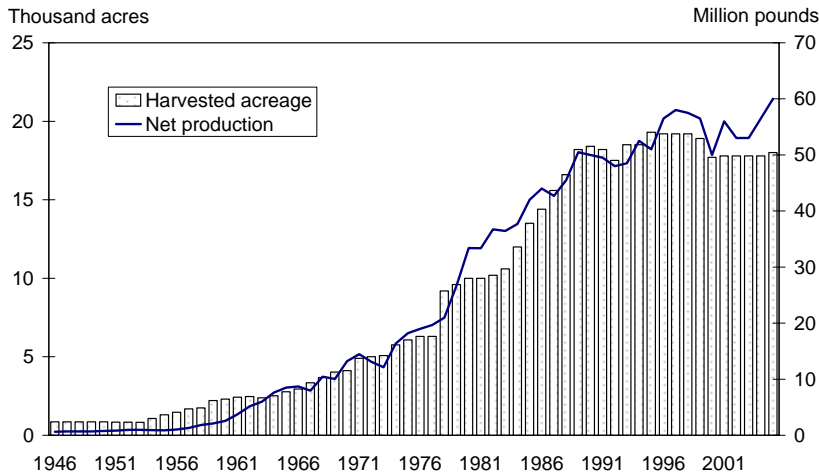
MACADAMIA NUTS

MACADAMIA NUTS: Number of farms, acreage, yield, production, moisture, price, and value, State of Hawaii, 2001/2002-2005/2006 crop years

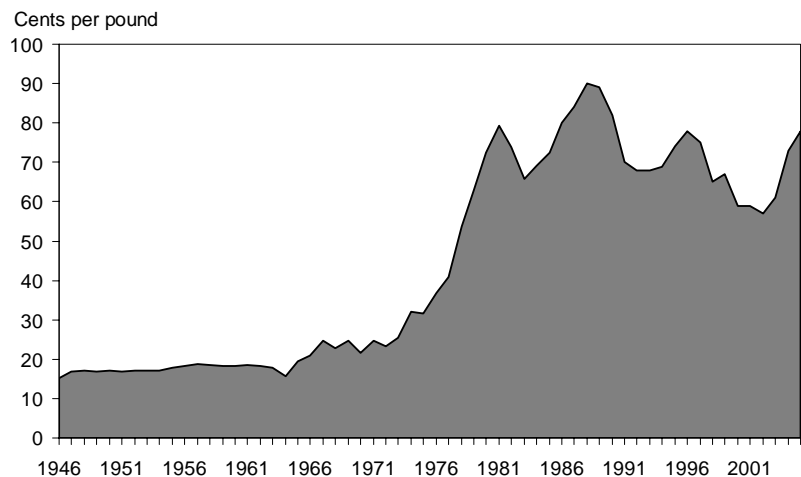
Crop year ¹	Farms	Acreage		Yield per acre ³	Production ⁴		Average moisture		Farm prices ⁴		Farm value ⁸
		In crop	Harvested ²		Gross ⁵	Net ⁶	Entire crop	Purchases only	Gross ⁷	Net	
	<i>Number</i>	<i>----- Acres -----</i>			<i>----- 1,000 pounds -----</i>		<i>----- Percent -----</i>		<i>Cents per pound -----</i>		<i>1,000 dollars</i>
2001-2002	650	18,000	17,800	3.1	62,000	56,000	21.2	21.9	53.3	59.0	33,040
2002-2003	650	18,000	17,800	3.0	60,000	53,000	20.4	20.7	50.4	57.0	30,210
2003-2004	650	18,000	17,800	3.0	60,000	53,000	20.2	20.7	53.9	61.0	32,330
2004-2005	650	18,000	17,800	3.2	63,000	56,500	20.7	21.0	65.5	73.0	41,245
2005-2006	650	18,300	18,000	3.3	67,000	60,000	20.7	20.4	66.3	74.0	44,400

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, 1946-2005 Seasons



MACADAMIA NUTS: Net, Wet-in-shell Farm Prices, State of Hawaii, 1946-2005 Seasons



FLORICULTURE AND NURSERY PRODUCTS

Hawaii County growers of flowers and nursery products accounted for 53 percent of the state's total wholesale value of flowers and nursery products in 2005. Hawaii County's 405 growers rang up sales of \$53.5 million, 6 percent more than the \$50.4 million in 2004. Honolulu's 245 producers accounted for 32 percent of the State's total wholesale value of flowers and nursery products. Honolulu farmers reported sales of \$32.4 million, slightly higher than 2004. Maui County's 180 producers generated \$11.7 million in sales, 23 percent above a year ago. Kauai's 75 producers registered \$3.0 million in sales, 2 percent less than 2004.

FLORICULTURE AND NURSERY PRODUCTS: Value of grower sales, by county, 2001-2005

Year	Cut flowers ¹	Orchids ²	Lei flowers	Foliage ³	Potted flowering plants	All other nursery products ⁴	Unspecified sales ⁵	Total
<i>1,000 dollars</i>								
State								
2001	14,566	20,650	3,928	20,380	5,010	22,838	1,225	88,597
2002	13,055	22,823	4,170	17,746	7,052	29,569	1,300	95,715
2003	14,183	23,439	3,704	16,966	5,563	30,391	1,355	95,601
2004	13,204	22,769	3,397	17,621	6,004	30,848	1,335	95,178
2005	14,067	22,201	3,686	19,406	6,151	33,769	1,320	100,600
County:								
Hawaii								
2001	11,194	11,954	1,213	17,885	2,394	5,467	530	50,637
2002	9,191	13,903	1,180	14,860	2,220	7,941	575	49,870
2003	10,321	14,220	1,081	14,358	1,086	8,505	635	50,206
2004	9,752	14,514	911	15,083	1,083	8,431	640	50,414
2005	10,239	14,378	934	16,725	959	9,602	650	53,487
Honolulu								
2001	502	7,330	1,384	2,116	1,351	13,195	320	26,198
2002	694	7,587	1,412	2,301	3,465	16,307	340	32,106
2003	639	7,134	1,400	2,157	3,293	16,099	370	31,092
2004	733	6,813	1,554	2,024	3,488	17,221	340	32,173
2005	806	6,490	1,482	2,142	3,407	17,739	340	32,406
Kauai								
2001	314	255	6	6	130	1,020	145	1,864
2002	363	326	6	6	84	1,715	145	2,633
2003	261	456	109	86	140	1,885	130	3,067
2004	189	524	52	64	159	1,928	140	3,056
2005	172	442	22	57	164	2,009	125	2,991
Maui								
2001	2,556	1,111	6	6	1,135	4,866	230	9,898
2002	2,807	1,007	6	6	1,283	5,769	240	11,106
2003	2,962	1,629	1,114	365	1,044	3,902	220	11,236
2004	2,530	918	880	450	1,274	3,268	215	9,535
2005	2,850	891	1,248	482	1,621	4,419	205	11,716

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, 2001-2005 ¹

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
CUT FLOWERS			
Anthuriums - dozens			
2001	61	876	5,929
2002	66	738	4,720
2003	61	810	5,832
2004	59	617	4,665
2005	58	602	5,180
Birds of Paradise - dozens			
2001	27	97	676
2002	24	94	666
2003	29	74	586
2004	30	51	426
2005	33	49	380
Chrysanthemums, pompon - bunches			
2001	4	217	447
2002	4	225	469
2003	4	229	480
2004	4	217	453
2005	4	211	446
Ginger, pink - dozens			
2001	45	67	460
2002	40	59	474
2003	40	54	477
2004	45	47	456
2005	47	62	454
Ginger, red - dozens			
2001	57	140	820
2002	56	147	1,048
2003	57	140	1,013
2004	57	132	1,044
2005	64	134	995
Ginger, other - dozens			
2001	23	20	128
2002	22	25	197
2003	27	23	228
2004	32	23	261
2005	24	18	163

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, 2001-2005 ¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
Heliconias - dozens			
2001	53	66	672
2002	50	78	734
2003	58	66	792
2004	60	71	853
2005	58	69	741
Proteas - stems			
2001	28	1,342	1,177
2002	25	1,475	1,108
2003	24	2,012	1,515
2004	32	1,921	1,416
2005	27	1,635	1,928
Other cut flowers - dozens			
2001	45	NA	4,257
2002	55	NA	3,639
2003	49	NA	3,260
2004	49	NA	3,630
2005	46	NA	3,780
ORCHIDS			
Cymbidiums, cut - flowers			
2001	10	383	218
2002	12	464	247
2003	11	464	229
2004	13	408	291
2005	13	428	311
Dendrobiums, sprays - dozens			
2001	49	385	2,926
2002	54	462	3,218
2003	50	410	3,069
2004	50	453	3,194
2005	49	401	3,153
Oncidiums, sprays - dozens			
2001	36	60	590
2002	34	64	641
2003	34	79	770
2004	29	60	706
2005	28	59	674

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, 2001-2005 ¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
Other orchid sprays ³ - dozens			
2001	9	NA	28
2002	16	NA	210
2003	17	NA	656
2004	18	NA	183
2005	13	NA	107
Dendrobiums, potted ⁴ - pots			
2001	76	1,155	6,683
2002	76	1,354	7,318
2003	81	1,096	6,154
2004	80	1,236	6,679
2005	76	1,132	5,992
Oncidiums, potted ⁵ - pots			
2001			
2002			
2003			
2004	43	464	3,113
2005	46	403	2,942
Phalaenopsis, potted - pots			
2001	29	161	1,055
2002	28	178	1,214
2003	31	246	1,695
2004	32	174	1,018
2005	23	80	717
Other potted orchids - pots			
2001	80	2,148	9,150
2002	82	1,922	9,975
2003	88	1,814	10,866
2004	78	1,352	7,585
2005	75	1,375	8,305

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, 2001-2005 ¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
FOLIAGE			
Dracaena, potted			
2001	32	NA	8,443
2002	36	NA	5,604
2003	32	NA	5,573
2004	29	NA	5,735
2005	26	NA	7,028
Palms, potted			
2001	45	NA	8,280
2002	46	NA	7,966
2003	49	NA	7,404
2004	45	NA	7,311
2005	45	NA	8,141
Hanging baskets, potted			
2001	15	NA	129
2002	16	NA	182
2003	17	NA	146
2004	16	NA	208
2005	13	NA	182
Other potted foliage			
2001	32	NA	2,384
2002	29	NA	2,368
2003	32	NA	2,209
2004	28	NA	2,702
2005	26	NA	2,479
Ti leaves, cut - leaves			
2001	39	4,700	432
2002	40	5,900	632
2003	43	7,900	746
2004	39	6,100	571
2005	38	5,600	581
Other cut greens			
2001	32	NA	215
2002	28	NA	259
2003	31	NA	317
2004	34	NA	352
2005	46	NA	379
Unfinished foliage stock (for further growing on)			
2001	8	NA	497
2002	11	NA	735
2003	9	NA	571
2004	11	NA	742
2005	9	NA	616

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, 2001-2005 ¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
LEI/INDIVIDUAL BLOOMS			
Carnations – blooms			
2001	6	5,600	387
2002	7	7,000	360
2003	7	5,000	268
2004	5	3,800	242
2005	4	4,200	313
Dendrobiums - blooms			
2001	27	23,700	732
2002	29	29,300	908
2003	30	25,700	847
2004	26	18,100	580
2005	21	17,300	588
Pikake - strands			
2001	8	62.0	140
2002	9	81.0	242
2003	7	67.0	202
2004	5	56.0	158
2005	5	25.0	80
Plumerias - blooms			
2001	13	29,300	664
2002	14	25,200	604
2003	14	21,200	537
2004	13	16,000	510
2005	14	14,600	506
Tuberoses - blooms			
2001	6	29,200	1,405
2002	6	35,300	1,641
2003	7	32,200	1,484
2004	7	28,200	1,301
2005 ⁶			
Vanda, Miss Joaquim - blooms			
2001	6	7,900	332
2002	4	2,700	87
2003	6	2,700	86
2004	8	5,700	210
2005	5	8,200	304
Other lei/individual - blooms			
2001	NA	NA	268
2002	NA	NA	328
2003	NA	NA	280
2004	NA	NA	396
2005	NA	NA	1,895

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, 2001-2005 ¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
POTTED FLOWERING PLANTS			
Anthuriums - pots			
2001	25	177	673
2002	26	144	751
2003	30	148	804
2004	28	164	883
2005	15	101	525
Bromeliads - pots			
2001	18	138	588
2002	14	221	890
2003	12	117	461
2004	11	131	583
2005	10	126	482
Chrysanthemums - pots			
2001	5	176	737
2002	5	150	652
2003	5	108	497
2004	5	93	468
2005 ⁷			
Poinsettias - pots			
2001	35	328	1,273
2002	31	382	1,551
2003	31	344	1,351
2004	30	327	1,409
2005	30	360	1,644
Other potted flowering plants			
2001	34	NA	1,739
2002	31	NA	3,208
2003	29	NA	2,450
2004	21	NA	2,661
2005	31	NA	3,500
POTTED BEDDING/GARDEN			
Impatiens, New Guinea			
2001	10	131	192
2002	11	121	172
2003	11	132	217
2004	14	139	223
2005	13	129	206
Impatiens, other			
2001	10	279	158
2002	12	268	145
2003	12	444	304
2004	13	440	303
2005	14	310	189

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, 2001-2005 ¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
Other bedding/garden			
2001	29	NA	2,548
2002	29	NA	3,474
2003	29	NA	3,269
2004	31	NA	3,137
2005	26	NA	2,508
PLANT RENTALS			
2001	42	NA	3,098
2002	47	NA	3,801
2003	37	NA	2,959
2004	45	NA	3,385
2005	43	NA	4,931
LANDSCAPE PLANTS ⁸			
2001	110		12,996
2002	117		17,150
2003	125		18,653
2004	128		19,219
2005	151		20,826
OTHER NURSERY PRODUCTS ⁹			
2001			3,846
2002			4,827
2003			4,989
2004			4,581
2005			5,109
UNSPECIFIED SALES ¹⁰			
2001			1,225
2002			1,300
2003			1,355
2004			1,335
2005			1,320
TOTAL			
2001	790		88,597
2002	870		95,715
2003	865		95,601
2004	920		95,178
2005	805		100,600

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 a count of those having sales of that item during each year; "Total" is unduplicated count. ³ Includes cattleyas, vanda hybrids, phalaenopsis, paphiopedilums, and others. ⁴ Includes in bud/bloom and community pots. ⁵ Prior to 2004, included with "Other potted orchids". ⁶ Included with "Other lei/individual". ⁷ Included with "Other potted flowering plants." ⁸ Includes broadleaf and coniferous evergreens, deciduous and flower trees, palms, citrus, fruit and nut trees, and sod. Does not include palms or potted foliage for indoor or patio use, bedding and garden plants, propagative floriculture material, and items which are included in published categories. ⁹ Includes other flowers or nursery products not elsewhere classified. ¹⁰ 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 county, 2001-2005

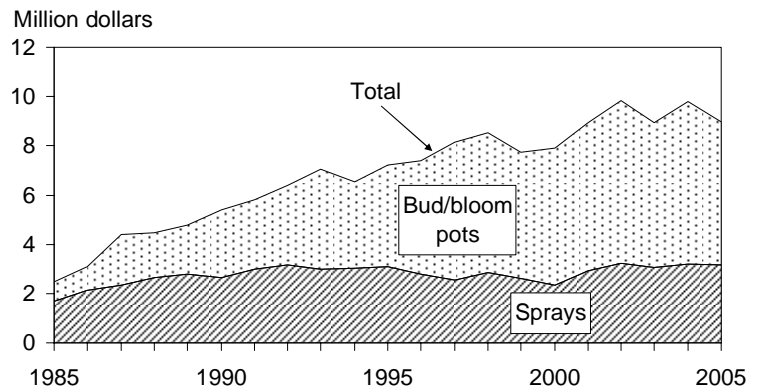
Year	Farms	Greenhouse ¹	Artificial shade	Natural shade	Open field	Total area
	<i>Number</i>	<i>----- 1,000 square feet -----</i>			<i>----- Acres -----</i>	
State						
2001	790	3,175	26,660	9	2,355	3,049
2002	870	3,030	30,415	10	2,870	3,648
2003	865	2,540	27,465	16	3,185	3,890
2004	920	2,620	26,560	0	3,160	3,830
2005	905	2,025	27,370	0	3,220	3,895
County:						
Hawaii						
2001	360	2,265	22,010	9	1,055	1,621
2002	420	2,210	24,125	10	1,565	2,180
2003	395	1,895	21,295	16	1,860	2,408
2004	425	1,990	20,840	0	1,880	2,404
2005	405	1,420	21,350	0	1,865	2,388
Honolulu						
2001	220	370	3,625	0	580	672
2002	230	330	5,055	0	585	709
2003	230	230	5,035	0	580	701
2004	235	255	4,660	0	525	638
2005	245	240	4,720	0	655	769
Kauai						
2001	60	115	295	0	155	164
2002	65	90	495	0	180	193
2003	80	65	360	0	170	180
2004	80	90	310	0	225	234
2005	75	110	520	0	190	204
Maui						
2001	150	425	730	0	565	592
2002	155	400	740	0	540	566
2003	160	350	775	0	575	601
2004	180	285	750	0	530	554
2005	180	255	780	0	510	534

¹ Glass or glass substitute structure.

FLORICULTURE AND NURSERY PRODUCTS



**DENDROBIUMS: Value of Sales,
State of Hawaii, 1985-2005¹**



DENDROBIUM ORCHIDS: Sales and value, State of Hawaii, 2001-2005¹

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>	
2001	23.7	732	385	2,926	1,035	6,013	120	670	10,341
2002	29.3	908	462	3,218	1,229	6,624	125	694	11,444
2003	25.7	847	410	3,069	1,040	5,866	56	288	10,070
2004	18.1	580	453	3,194	1,222	6,599	14	80	10,453
2005	17.3	588	401	3,153	1,093	5,815	39	177	9,733

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

DENDROBIUM ORCHIDS (POTTED IN BUD/BLOOM AND CUT SPRAYS): Number of farms and production area, State of Hawaii, 2001-2005¹

Year	Farms		Production area		
	Cut sprays	Potted in bud/bloom	Cut sprays	Potted in bud/bloom	Total
	----- <i>Number</i> -----		----- <i>1,000 square feet</i> -----		
2001	49	70	2,700	2,295	4,995
2002	54	71	3,595	2,720	6,315
2003	50	69	3,005	2,205	5,210
2004	50	75	3,015	2,225	5,240
2005	49	71	3,400	2,340	5,740

¹ Data includes only producers with \$10,000 or more in total sales.

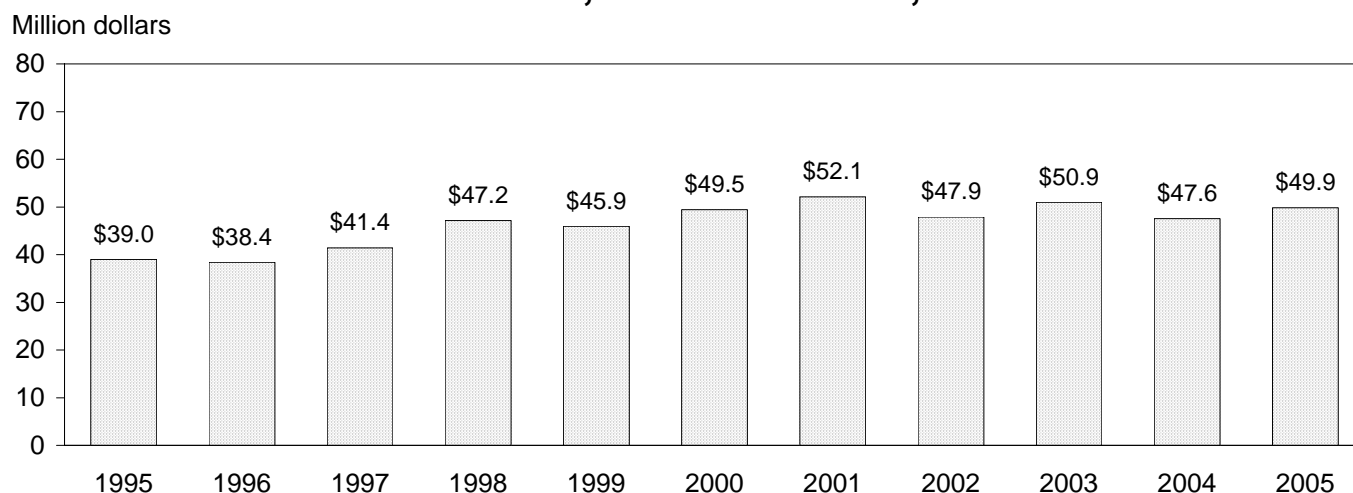
FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Out-of-State sales, State of Hawaii, 2001-2005 ¹

Commodity	2001	2002	2003	2004	2005
<i>1,000 dollars</i>					
Anthurium, cut	8,800	7,700	8,500	6,475	6,315
Birds of Paradise	860	840	700	540	530
Cymbidium	150	140	140	135	140
Dendrobium, sprays	3,500	3,400	3,600	3,900	4,030
Oncidium	510	500	610	505	470
Foliage, cut:					
Ti leaves	710	680	840	640	650
Other cut greens	1,480	1,520	1,600	1,400	1,200
Foliage, potted	15,800	10,700	11,000	11,300	13,200
Ginger, red	560	600	645	810	680
Ginger, other	590	490	540	670	550
Heliconia	1,020	1,040	1,200	1,200	1,000
Potted orchids:					
Dendrobium	4,900	4,510	4,590	4,645	4,335
Oncidium				2,775	3,230
Phalaenopsis	630	750	930	765	530
Other orchids	7,200	9,130	9,730	5,610	7,005
Protea	1,560	1,620	1,800	1,715	2,000
Mixed assortment of cut flowers	1,260	1,240	1,730	1,100	1,700
All other flowers and nursery products	2,570	3,010	2,785	3,400	2,300
Total	52,100	47,870	50,940	47,585	49,865

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

FLORICULTURE & NURSERY PRODUCTS: Out-of-State Sales, State of Hawaii, 1995-2005 ¹



¹ Includes wholesale and retail sales.

2005 FRUIT HIGHLIGHTS



Hawaii fruit growers harvested 488.9 million pounds of fruit for fresh and processed utilization in 2005, a 3 percent decline from the previous year. Total value fell 2 percent to \$105.0 million, with pineapple, papaya, and guava recording declines in value of sales. Fruit acreage totaled 20,196 acres, a 6 percent increase over 2004. Harvested area increased 14 percent to 4,350 acres.

- **BANANA**

The State's banana growers saw a 16 percent decline in total acreage in 2005. Harvested acreage declined 2 percent to 980 acres. In spite of acreage declines, improved yields, which topped 21,000 pounds per acre, along with generally favorable weather conditions contributed to a 27 percent increase in utilized production over 2004.

- **GUAVA**

A 10 percent increase in total guava acreage and 20 percent increase in harvested acreage helped offset lower yields to maintain output at the previous years' level of 8.1 million pounds. Hawaii's guavas, which are mainly for the processed market, recorded a 3 percent drop in price and a corresponding drop in value of sales to \$1.1 million.

- **PAPAYA**

Area devoted to papaya production totaled 2,395 acres, an increase of 14 percent from the previous year. Harvested area totaled 1,480 acres, 20 percent more than 2004. However, irregular rainfall and disease problems contributed to lower yields and a smaller harvest. Papaya output declined 8 percent to 32.9 million pounds. Papaya value of sales dropped 9 percent to \$11.2 million.

- **PINEAPPLE**

Pineapple represented 69 percent of total fruit acreage and 75 percent of the total fruit value. However, early in 2005, one major company announced the beginning of their phase-out of pineapple production which should take them into 2008 due to pineapples three-year crop cycle.

- **TROPICAL SPECIALTY FRUIT**

Area devoted to tropical specialty fruit totaled 1,230 acres in 2005, 1 percent more than 2004. Area harvested totaled 730 acres, 14 percent higher than 2004. Hawaii's growers of tropical specialty fruit produced and sold an estimated 1.5 million pounds of fruit in 2005. This was 41 percent higher than the 2004 output of 1.0 million pounds and the highest on record for tropical specialty fruit since data were published for this group. Higher yields from maturing orchards and the rise in harvested area contributed to the increased production. Compared with 2004, higher output was registered for atemoya, longan, lychee, mango, persimmon, and rambutan. Value of sales hit an all-time high of \$2.7 million in 2005, 40 percent more than 2004. Higher farm prices were recorded for lychee, mango, and persimmon.

MARKET SUPPLY: FRESH FRUITS

MARKET SUPPLY: Fresh market fruits, State of Hawaii, 2001-2005^{1 2 3}

Commodity		2001	2002	2003	2004	2005	Hawaii market share 2005
----- 1,000 pounds -----							Percent
Apples:	Inshipments	13,602	14,672	13,448	13,392	15,320	
Avocados:	Inshipments	1,025	1,292	1,579	1,780	2,130	
	Hawaii	600	700	760	740	800	27
Bananas:	Inshipments	6,485	8,377	8,297	13,929	13,017	
	Hawaii	28,000	20,000	22,500	16,500	20,900	62
Cantaloupe melons:	Inshipments	8,422	7,293	7,225	6,149	7,658	
	Hawaii ⁴						
Grapefruit:	Inshipments	1,857	1,906	1,693	1,719	1,488	
	Hawaii	₄	₄	₄	₄	40	3
Grapes:	Inshipments	7,247	8,681	7,580	8,360	9,831	
Honeydew melons:	Inshipments	3,067	2,629	2,488	2,773	2,570	
	Hawaii ⁴						
Lemons:	Inshipments	3,811	3,755	3,841	3,915	4,196	
	Hawaii	₄	₄	₄	₄	54	1
Limes:	Inshipments	1,059	1,241	1,365	1,456	1,678	
	Hawaii	₄	₄	₄	₄	59	3
Nectarines:	Inshipments	2,133	2,489	2,264	2,593	2,260	
Oranges:	Inshipments	11,448	13,336	14,069	13,683	15,740	
	Hawaii ⁴						
Papayas:	Inshipments			₄	₄	₄	
	Hawaii ⁵	26,355	21,490	21,965	20,400	18,755	
Pears:	Inshipments	3,509	4,956	4,397	5,109	3,971	
Pineapples:	Hawaii	39,800	37,200	31,700	20,900	₆	
Tangerines:	Inshipments	632	854	1,198	902	1,254	
	Hawaii	₄	₄	₄	₄	51	4
Watermelons:	Inshipments	3,182	2,820	2,602	3,165	3,946	
	Hawaii	10,500	11,300	11,900	10,100	11,300	74
All other fruits:	Inshipments	11,287	12,657	14,580	13,148	15,507	
	Hawaii	6,056	9,907	7,513	4,697	5,610	27
Unspecified fruits:	Inshipments ⁷	6,237	6,112	5,850	8,362	7,391	
Total:	Inshipments	85,003	93,070	92,476	100,435	107,957	
	Hawaii	111,311	100,597	96,338	73,337	57,569	35
	All	196,314	193,667	188,814	173,772	165,526	

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 Inshipment data revised for 2001-2004.

⁴ Data not shown separately to avoid disclosure of individual operations but combined and included with "All other fruits".

⁵ Fresh intrastate sales only. Excludes mainland and foreign fresh sales.

⁶ Data not available.

⁷ Fruit data received without commodity names specified.

TROPICAL SPECIALTY FRUITS

TROPICAL SPECIALTY FRUITS: Number of farms, acreage, number of trees, production, price, and value, State of Hawaii, 2001-2005 ¹

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>
Atemoya ⁵								
2001								
2002								
2003								
2004	25	15	10	600	500	5	1.40	7
2005	20	15	5	800	200	17	1.35	23
Longan								
2001	35	90	30	4,700	1,500	37	3.05	111
2002	40	120	35	6,600	1,900	46	3.20	147
2003	65	145	75	7,300	3,300	114	3.33	380
2004	65	210	75	8,700	3,500	121	3.41	413
2005	65	180	85	8,300	4,000	142	3.09	438
Lychee								
2001	85	305	65	16,400	4,300	6	6	6
2002	90	330	95	15,500	5,000	77	2.64	203
2003	110	370	80	16,500	3,200	88	2.84	250
2004	125	260	115	11,200	5,500	102	2.42	247
2005	125	290	180	9,700	5,600	111	2.61	290
Mango								
2001	70	255	185	11,100	8,200	242	.86	209
2002	80	260	200	10,700	7,100	377	.92	348
2003	85	260	200	10,700	7,400	481	.86	414
2004	110	270	195	10,200	7,700	391	.92	358
2005	100	295	190	13,900	8,900	530	1.11	586
Persimmon ⁵								
2001								
2002								
2003								
2004	20	20	15	1,400	1,100	49	1.57	77
2005	20	25	20	1,400	1,200	50	1.62	81
Rambutan								
2001	60	245	100	12,500	6,400	205	3.01	618
2002	55	270	145	13,200	6,800	257	3.01	773
2003	60	270	185	12,900	8,500	306	2.73	834
2004	75	285	185	12,500	8,300	278	2.60	723
2005	65	250	180	11,200	8,000	400	2.51	1,005
Starfruit								
2001	40	20	15	2,000	1,900	69	1.06	73
2002	50	25	15	2,100	1,800	63	1.51	95
2003	50	30	7	2,700	800	24	1.58	38
2004 ⁶								
2005 ⁶								

See footnotes at end of table.

Continued

TROPICAL SPECIALTY FRUITS

TROPICAL SPECIALTY FRUITS: Number of farms, acreage, number of trees, production, price, and value, State of Hawaii, 2001-2005¹ -- Continued

Crop	Farms ²	Acreage		Number of trees		Utilized production ³	Farm price ^{3,4}	Value of sales
		In crop	Harvested	Total	Bearing			
	<i>Number</i>	<i>----- Acres -----</i>				<i>1,000 pounds</i>	<i>Dollars per pound</i>	<i>1,000 dollars</i>
Other								
2001	--	155	65	8,900	5,100	188	--	297
2002	--	165	70	10,900	4,800	142	--	194
2003	--	185	53	15,300	4,600	141	--	212
2004	--	160	45	7	7	95	--	120
2005	--	175	70	7	7	215	--	295
Total								
2001	145	1,070	460	55,600	27,400	741	--	1,308
2002	160	1,170	560	59,000	27,400	962	--	1,760
2003	170	1,260	600	65,400	27,800	1,154	--	2,128
2004	220	1,220	640	7	7	1,041	--	1,945
2005	235	1,230	730	7	7	1,465	--	2,718

-- = Not applicable. ¹ Tropical 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. ² A farm may grow more than one type of fruit. Total farms is an unduplicated count; excludes home use. ³ Includes fresh and processed utilization when applicable. ⁴ Beginning 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. ⁵ Prior to 2004, included with "Other". ⁶ Data not shown separately to avoid disclosure of individual operations but combined and included with "Other". ⁷ Beginning 2004, data series discontinued.

TROPICAL SPECIALTY FRUITS: Number of farms, acreage, production, and value, by county, 2001-2005

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					
2001	145	1,070	460	741	1,308
2002	160	1,170	560	962	1,760
2003	170	1,260	600	1,154	2,128
2004	220	1,220	640	1,041	1,945
2005	235	1,230	730	1,465	2,718
County:					
Hawaii					
2001	80	515	180	351	736
2002	90	585	250	417	1,008
2003	95	600	280	462	1,214
2004	125	640	310	406	1,071
2005	120	660	380	760	1,859
Honolulu/Kauai/Maui²					
2001	65	555	280	390	572
2002	70	585	310	545	752
2003	75	660	320	692	914
2004	95	580	330	635	874
2005	115	570	350	705	859

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, 2001-2005

Year	Farms ¹	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>
2001	15	20.1	323	213	110	129	626	96,337
2002	25	19.1	320	203	117	136	624	100,616
2003	25	16.0	300	170	130	135	604	101,470
2004	30	13.0	220	116	104	148	634	83,104
2005	30	14.0	212	106	106	148	600	79,288

¹ Includes large and small pineapple growers statewide.

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, 2001-2005

Year	Fresh market sales ¹		Processor value of canned fruit and juice production ³	Total value: Fresh market and processed ⁴
	Quantity	Value ²		
	<i>1,000 tons</i>	<i>Million dollars</i>		
2001	110	68.9	67.7	136.6
2002	117	73.0	71.0	144.0
2003	130	78.5	64.4	142.9
2004	104	65.9	57.3	123.2
2005	106	63.6	49.8	113.4

¹ Includes "fresh cut".

² Prior to 2005, 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 Prior to 2004, source Pineapple Growers Association of Hawaii.

PINEAPPLES: Outshipments of fresh pineapples, State of Hawaii, 2001-2005

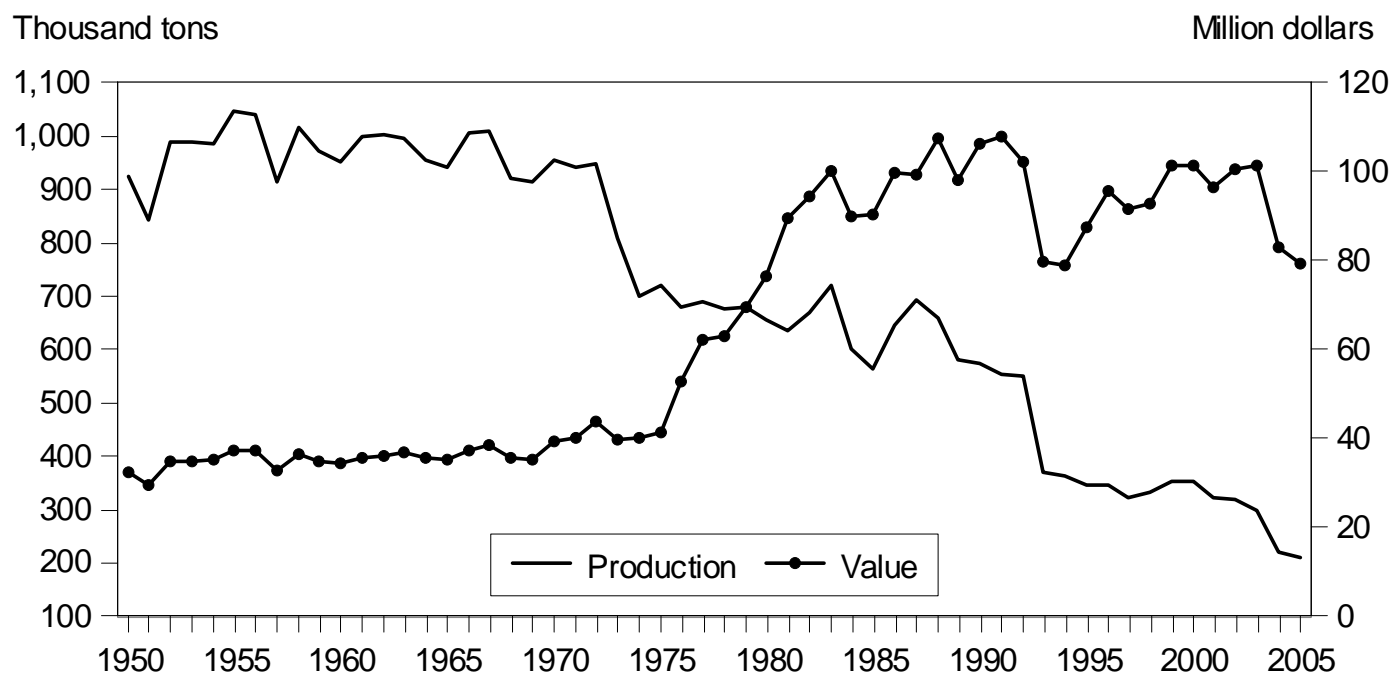
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	<i>1,000 Pounds</i>												
2001	13,864	13,519	16,254	16,276	19,480	17,541	18,073	14,212	9,901	12,671	12,307	16,058	180,156
2002	14,978	11,978	16,610	16,898	20,524	20,126	20,448	13,534	14,044	15,032	16,997	15,574	196,744
2003	13,692	13,142	20,374	19,963	21,637	20,434	24,650	22,079	15,024	15,477	22,131	19,712	228,315
2004	14,248	18,579	14,840	11,483	13,574	12,936	20,418	10,917	12,045	17,518	13,616	16,889	177,063
2005 ¹													

¹ Data not available.

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

PINEAPPLES, AVOCADOS

PINEAPPLES: Production and Value, State of Hawaii, 1950-2005



AVOCADOS: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 2001-2005

State of Hawaii, 2001-2005							
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>
2001	140	360	230	2.6	600	57.0	342
2002	140	370	250	2.8	700	56.0	392
2003	150	390	300	2.5	760	62.0	471
2004	150	380	270	2.7	740	63.0	466
2005	175	390	300	2.7	800	66.0	528

¹ At end of year.

² Production divided by bearing acreage.

BANANAS

BANANAS: Number of farms, acreage, yield, production, price, and value, by county, 2001-2005

Year	Farms	Acreage		Yield per acre ²	Utilized production	Farm price	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>
State³							
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
2004	210	1,360	1,000	16.5	16,500	49.0	8,085
2005	190	1,145	980	21.3	20,900	43.9	9,175
County:							
Hawaii							
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 ⁴							
2004 ⁴							
2005⁴							
Honolulu							
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 ⁴							
2004 ⁴							
2005⁴							
Kauai							
2001	45	75	55	9.5	520	45.5	237
2002	50	90	70	9.3	650	45.0	293
2003 ⁴							
2004 ⁴							
2005⁴							
Maui							
2001	30	85	60	9.7	580	57.5	333
2002	40	95	70	9.3	650	57.5	374
2003 ⁴							
2004 ⁴							
2005⁴							

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 Utilized production divided by acreage harvested.

³ Sum of county estimates may not add to State total due to rounding.

⁴ Data not available.

BANANAS

BANANAS: Production, acreage, and price, State of Hawaii, 2001-2005

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

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 ₂	1,355 ₂	1,500 ₂	1,450 ₂	1,525 ₂	1,855 ₂	1,780 ₂	2,065 ₂	1,745 ₂	1,770 ₂	1,685 ₂	1,790 ₂	20,000	1,510	1,330
2003	2	2	2	2	2	2	2	2	2	2	2	2	22,500	1,560	1,350
2004	2	2	2	2	2	2	2	2	2	2	2	2	16,500	1,360	1,000
2005	2	2	2	2	2	2	2	2	2	2	2	2	20,900	1,145	980

Hawaii Apple³

2001	425	495	615	565	635	630	560	590	565	565	475	580	6,700	760	600
2002	520	475	520	475	510	510	555	485	485	495	465	505	6,000	770	630
2003 ²															
2004 ²															
2005 ²															

Cavendish and others⁴

2001	1,720	1,530	1,775	1,720	1,845	1,890	1,970	2,030	1,925	1,730	1,700	1,465	21,300	900	890
2002	960	880	980	975	1,015	1,345	1,225	1,580	1,260	1,275	1,220	1,285	14,000	740	700
2003 ²															
2004 ²															
2005 ²															

Farm price for fresh market

Cents per pound

All Bananas⁵

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 ₂	45.0 ₂	45.0 ₂	44.5 ₂	46.0 ₂	42.5 ₂	41.5 ₂	39.0 ₂	41.5 ₂	43.5 ₂	43.5 ₂	42.5 ₂	43.0
2003	2	2	2	2	2	2	2	2	2	2	2	2	41.0
2004	2	2	2	2	2	2	2	2	2	2	2	2	49.0
2005	2	2	2	2	2	2	2	2	2	2	2	2	43.9

Hawaii Apple³

2001	50.0	50.0	51.0	51.0	51.5	50.5	50.0	50.5	51.0	51.0	50.0	50.0	50.5
2002	49.5	50.5	49.5	49.0	50.5	51.0	51.0	50.5	51.5	51.5	51.5	49.5	50.5
2003 ²													
2004 ²													
2005 ²													

Cavendish⁶

2001	36.0	39.0	36.0	34.0	36.5	33.5	33.0	32.0	31.5	31.5	30.5	35.5	34.0
2002	39.5	41.5	42.5	42.5	43.5	39.5	37.0	35.5	38.0	40.5	40.0	40.0	39.5
2003 ²													
2004 ²													
2005 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 county, 2001-2005

Year	Farms	Acreage ¹		Yield per acre ²	Utilized produc- tion	Utilization		Price per pound			Value of utilized production
		In crop	Harvested			Fresh	Processed	Fresh	Processed ³	All	
Number		----- Acres -----		----- 1,000 pounds -----				----- Cents -----			1,000 dollars
State ⁴											
2001	221	2,860	1,950	28.2	55,000	52,000	3,000	27.9	3.0	26.5	14,598
2002	164	2,320	1,720	26.7	45,900	42,700	3,200	27.7	3.0	26.0	11,924
2003	163	2,240	1,565	27.2	42,600	40,800	1,800	31.9	3.0	30.7	13,069
2004	207	2,105	1,235	29.0	35,800	34,100	1,700	36.1	3.0	34.5	12,361
2005	205	2,395	1,480	22.2	32,900	30,700	2,200	36.4	3.0	34.2	11,241
County:											
Hawaii											
2001	158	2,385	1,635	26.5	43,290	40,290	⁵ 3,000	25.1		23.6	10,216
2002	122	2,050	1,540	25.4	39,080	35,880	⁵ 3,200	25.2		23.4	9,135
2003	124	2,000	1,420	26.4	37,535	35,735	⁵ 1,800	30.8		29.4	11,045
2004	141	1,910	1,080	29.3	31,695	29,995	⁵ 1,700	35.2		33.5	10,611
2005	153	2,170	1,315	22.1	29,110	26,910	⁵ 2,200	35.1		32.7	9,521
Honolulu											
2001	29	330	225	41.9	9,425	9,425	0	38.3		38.3	3,613
2002	21	155	110	45.5	5,005	5,005	0	40.0		40.0	2,002
2003	17	120	80	45.0	3,600	3,600	0	39.8		39.8	1,433
2004	27	95	90	29.2	2,630	2,630	0	44.0		44.0	1,157
2005	29	130	105	21.4	2,250	2,250	0	44.2		44.2	995
Kauai											
2001	24	105	70	24.2	1,695	1,695	⁵	⁶ 33.7		⁶ 33.7	⁶ 769
2002	13	70	50	22.2	1,110	1,110	⁵	⁶ 43.4		⁶ 43.4	⁶ 787
2003	15	55	35	18.3	640	640	⁵	⁶ 40.3		⁶ 40.3	⁶ 591
2004	19	40	30	18.0	540	540	⁵	⁶ 40.2		⁶ 40.2	⁶ 593
2005	11	35	25	18.4	460	460	⁵	⁶ 47.1		⁶ 47.1	⁶ 725
Maui											
2001	10	40	20	29.5	590	590	0	⁶		⁶	⁶
2002	8	45	20	35.3	705	705	0	⁶		⁶	⁶
2003	7	65	30	27.5	825	825	0	⁶		⁶	⁶
2004	20	60	35	26.7	935	935	0	⁶		⁶	⁶
2005	12	60	35	30.9	1,080	1,080	0	⁶		⁶	⁶

¹ Average of monthly estimates.

² Utilized production divided by acreage harvested.

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

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

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

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

PAPAYAS: Acreage, utilization, outshipments, and price, State of Hawaii, 2001-2005

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres ¹													
2001	1,870	1,845	2,025	2,025	2,025	2,035	2,020	1,955	1,940	1,920	1,920	1,825	1,950
2002	1,830	1,925	1,930	1,935	1,935	1,725	1,680	1,610	1,500	1,500	1,490	1,580	1,720
2003	1,505	1,510	1,515	1,735	1,740	1,575	1,565	1,565	1,565	1,575	1,580	1,350	1,565
2004	1,340	1,345	1,160	1,160	1,160	1,055	1,060	1,050	1,370	1,365	1,360	1,400	1,235
2005	1,410	1,410	1,435	1,440	1,440	1,580	1,570	1,435	1,445	1,415	1,405	1,780	1,480
Utilization (fresh and processed) – 1,000 pounds													
2001	5,065	4,045	4,670	4,740	5,150	5,230	4,370	4,325	4,390	5,185	4,435	3,395	55,000
2002	3,445	3,450	3,540	3,320	3,615	3,620	4,245	4,655	3,705	4,165	4,285	3,855	45,900
2003	4,040	3,840	4,320	3,575	3,115	3,095	3,640	3,585	3,380	3,590	3,285	3,135	42,600
2004	3,690	2,870	2,930	2,725	2,670	3,135	2,915	2,715	2,845	3,425	2,850	3,030	35,800
2005	2,810	2,645	2,875	2,815	3,000	2,740	2,945	2,540	2,810	2,935	2,135	2,650	32,900
Total fresh papaya utilization – 1,000 pounds													
2001	4,930	4,040	4,600	4,380	4,530	4,745	3,985	4,190	4,105	4,940	4,330	3,225	52,000
2002	3,345	3,310	3,375	2,995	3,210	3,285	3,915	3,745	3,585	4,035	4,135	3,765	42,700
2003	3,935	3,735	4,215	3,485	3,040	3,030	3,425	3,240	3,025	3,450	3,105	3,115	40,800
2004	3,560	2,775	2,815	2,630	2,460	2,920	2,750	2,630	2,725	3,225	2,650	2,960	34,100
2005	2,580	2,425	2,715	2,700	2,740	2,595	2,745	2,360	2,665	2,605	2,020	2,550	30,700
Intrastate fresh papaya utilization – 1,000 pounds													
2001	2,890	2,120	2,425	1,955	1,870	2,320	1,845	2,125	2,215	2,325	2,345	1,920	26,355
2002	1,860	1,670	1,885	1,655	1,770	1,825	1,795	1,735	1,665	1,990	1,885	1,755	21,490
2003	1,765	1,745	1,990	1,965	1,725	1,655	1,915	1,910	1,495	2,040	1,895	1,865	21,965
2004	2,130	1,595	1,710	1,585	1,475	1,725	1,640	1,525	1,570	2,045	1,560	1,840	20,400
2005	1,545	1,510	1,780	1,680	1,525	1,590	1,625	1,455	1,575	1,630	1,295	1,545	18,755
Outshipments of fresh papaya – 1,000 pounds													
2001	2,040	1,920	2,175	2,425	2,660	2,425	2,140	2,065	1,890	2,615	1,985	1,305	25,645
2002	1,485	1,640	1,490	1,340	1,440	1,460	2,120	2,010	1,920	2,045	2,250	2,010	21,210
2003	2,170	1,990	2,225	1,520	1,315	1,375	1,510	1,330	1,530	1,410	1,210	1,250	18,835
2004	1,430	1,180	1,105	1,045	985	1,195	1,110	1,105	1,155	1,180	1,090	1,120	13,700
2005	1,035	915	935	1,020	1,215	1,005	1,120	905	1,090	975	725	1,005	11,945
Farm price for fresh market sales (to all markets) – cents per pound													
2001	23.8	26.9	30.0	31.7	28.3	28.5	30.0	27.7	27.3	26.0	26.5	28.9	27.9
2002	29.4	29.5	28.3	30.2	30.4	28.3	27.9	27.5	26.9	24.9	25.3	26.1	27.7
2003	30.7	32.6	32.8	34.1	33.8	35.0	31.8	30.1	31.1	31.6	29.6	30.8	31.9
2004	31.0	31.2	37.4	40.0	41.0	39.5	37.2	36.6	37.2	35.8	34.3	33.4	36.1
2005	33.0	37.4	40.0	37.6	37.0	37.2	36.2	36.5	34.3	33.2	37.1	36.9	36.4

¹ Total is average of monthly data.

GUAVAS

GUAVAS: Number of farms, acreage, farm production, price, and value, by county, 2001-2005

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						
2001	110	710	610	15,300	14.1	2,157
2002	85	640	550	9,700	15.0	1,455
2003	75	610	530	6,700	13.8	925
2004	75	610	525	8,100	14.4	1,166
2005	50	670	630	8,100	13.9	1,126
County:						
Hawaii						
2001	100	260	170	3	3	3
2002	80	200	110	3	3	3
2003	65	160	85	3	3	3
2004	65	160	60	3	3	3
2005	40	220	180	3	3	3
Honolulu/Kauai/Maui⁴						
2001	10	450	440	3	3	3
2002	5	440	440	3	3	3
2003	10	450	445	3	3	3
2004	10	450	440	3	3	3
2005	10	450	450	3	3	3

¹ Includes planting intentions for year 2001-2002.

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

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

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

GUAVAS: Farm production, State of Hawaii, 2001-2005

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
<i>1,000 pounds</i>													
2001	1,434	501	363	646	1,032	1,041	1,244	1,385	2,236	1,761	2,298	1,359	15,300
2002	693	507	425	525	514	1,016	497	228	832	1,868	1,820	775	9,700
2003	240	292	904	508	433	587	639	395	1,041	764	640	257	6,700
2004	211	310	359	398	405	271	477	1,457	1,985	1,111	550	566	8,100
2005	246	233	198	256	371	498	665	756	1,318	1,746	901	912	8,100

2005 VEGETABLE, MELON, AND TARO HIGHLIGHTS

VEGETABLES AND MELONS

The farm value of Hawaii's vegetables and melons is estimated at a record high \$54.3 million in 2005, up fractionally from the previous record high set in 2004. Changes in farm prices were mixed, but a 1 percent increase in production ensured 2005's record revenues.

Although weather conditions were mixed in 2005, it was an improvement from 2004 when a very wet winter hampered vegetable production throughout the year. Reminiscent of 2004, most areas of the State experienced a wet start in 2005 as unstable weather conditions produced periods of heavy showers in January and February.

The wet weather slowed crop progress and hampered farm activities, but unlike 2004, the 2005 rainy season was not as intense and was mainly concentrated in the eastern half of the State. Vegetable and melon growers then benefited from a mixture of mostly dry weather and a few periods of moderate to heavy showers for the remainder of the year. At year's end, December 2005 was so dry that the National Weather Service reported that the island of Kauai experienced record-setting dryness with all gauges reporting below normal totals and most at less than 10 percent of normal.



Hawaii's tomato farmers (field and greenhouse types) led all other vegetable and melon growers with \$9.8 million in farm revenues or 18 percent of the overall total. Taking over second place were sweetpotatoes which posted \$3.8 million in farm revenues during 2005, up 78 percent from 2004 on the strength of higher farm prices and production. Moving up to third in farm revenues were watermelons with \$3.1 million, a 26 percent increase from 2004 due to higher farm prices and production. Dry onions, at \$3.0 million, and cucumbers, with \$2.8 million, rounded-out the top five revenue-producing vegetables and melons in 2005.

TARO

Hawaii taro production is estimated at 4.0 million pounds in 2005, down 19 percent from 2004 and the lowest total since the NASS, USDA, Hawaii Field Office began publishing taro estimates in 1946. The previous record low was 5.0 million pounds set in 2003.

Taro production was hindered from the start of 2005 by a second winter of rainy weather. Periodically heavy rains pelted the major taro growing areas throughout the first quarter and resulted in occasional flooding. While plant losses due to weather were light, the wet and cloudy weather did slow crop development. The rest of 2005 was generally a mixture of sunshine and showers which favored taro, but the plant's 11-15 month maturity cycle prevented the industry's recovery for 2005. Pests also continued to pose a problem for taro growers. Reports of apple snail (*Pomacea canaliculata*) infestations and losses varied from light to extremely heavy. Taro Pocket Rot (TPR), a disease that forms pockets of rotting tissue in the corm, also continued to result in some losses. Finally, incidences of leaf blight (*Phytophthora colocasiase*) caused by the wet weather, slowed crop development.

MARKET SUPPLY: FRESH VEGETABLES

MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 2001-2005 ^{1 2}

Commodity		2001	2002	2003	2004	2005	Hawaii market share 2005
----- 1,000 pounds -----							Percent
Beans, snap:	Inshipments	281	502	411	531	619	
	Hawaii	1,100	900	1,000	900	700	53
Bittermelon:	Inshipments	33	38	52	66	149	
	Hawaii	250	200	220	250	250	63
Broccoli:	Inshipments	5,267	5,339	5,328	5,478	5,794	
	Hawaii	550	550	750	500	600	9
Burdock:	Inshipments	40	54	71	82	94	
	Hawaii	150	³	³	³	³	
Cabbage, Chinese:	Inshipments	170	226	748	1,528	1,027	
	Hawaii ⁴	6,000	5,700	5,500	⁵ 5,300	⁵ 5,700	85
Cabbage, head:	Inshipments	1,279	541	1,925	4,022	3,054	
	Hawaii	12,500	13,000	12,600	9,000	9,800	76
Cabbage, mustard:	Inshipments	233	278	135	207	237	
	Hawaii	1,600	1,400	1,300	1,400	1,400	86
Carrots:	Inshipments	12,227	12,341	11,232	11,400	12,607	
	Hawaii ³						
Cauliflower:	Inshipments	1,464	1,446	1,304	1,340	1,076	
	Hawaii ³						
Celery:	Inshipments	5,172	5,047	4,796	5,065	4,931	
	Hawaii	1,150	1,100	1,200	900	830	14
Corn, sweet:	Inshipments	989	795	1,214	1,390	1,169	
	Hawaii	1,900	2,400	2,500	1,800	1,700	59
Cucumbers:	Inshipments	529	748	440	920	1,543	
	Hawaii	5,300	5,400	5,900	5,900	6,000	80
Daikon:	Inshipments	--	5	5	3	6	
	Hawaii ⁴	2,800	2,100	1,900	³	³	
Dasheen:	Inshipments	82	945	1,056	746	659	
	Hawaii ³						
Eggplant:	Inshipments	472	616	468	675	986	
	Hawaii	1,000	750	850	1,050	1,200	55
Ginger root:	Inshipments	18	7	542	591	224	
	Hawaii	18,000	14,400	6,000	6,000	5,100	96
Lettuce ⁶ :	Inshipments	12,312	10,135	9,348	9,116	8,065	
	Hawaii	1,200	1,200	1,200	1,300	1,100	12
Lotus root:	Inshipments	44	77	57	53	58	
	Hawaii ³						
Onions, dry:	Inshipments	17,633	17,840	17,500	17,982	21,210	
	Hawaii	5,400	2,100	3,300	1,600	2,300	10

See footnotes at end of table.

Continued

MARKET SUPPLY: FRESH VEGETABLES

MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 2001-2005 ^{1 2} -- Continued

Commodity		2001	2002	2003	2004	2005	Hawaii market share 2005
		----- 1,000 pounds -----					Percent
Onions, green:	Inshipments	545	1,460	566	896	590	
	Hawaii	1,400	1,500	1,600	1,600	1,700	74
Parsley, American:	Inshipments	45	77	124	167	178	
	Hawaii	330	300	310	280	250	58
Peas, Chinese:	Inshipments	325	370	300	257	260	
	Hawaii ³						
Peppers, green:	Inshipments	2,459	2,276	2,254	2,489	2,997	
	Hawaii	3,100	3,200	3,300	3,200	3,000	50
Potatoes:	Inshipments ⁵	37,826	36,942	35,394	34,629	39,032	
	Hawaii ³						
Pumpkins:	Inshipments	532	146	158	833	363	
	Hawaii	400	400	850	250	80	18
Radish:	Inshipments	3	2	10	11	9	
	Hawaii	150	100	³	³	³	
Romaine:	Inshipments	7,052	8,260	8,210	9,336	10,465	
	Hawaii	2,000	1,800	1,900	1,500	1,700	14
Squash, Italian:	Inshipments	887	1,245	1,108	1,130	1,259	
	Hawaii	1,800	1,400	1,800	1,700	1,500	54
Squash, Oriental:	Inshipments	4	31	23	55	139	
	Hawaii	500	250	200	650	450	76
Sweetpotatoes:	Inshipments	1,653	1,416	1,365	1,357	1,337	
	Hawaii	1,800	2,300	2,100	4,600	6,300	82
Taro:	Inshipments	713	389	609	1,002	705	
	Hawaii ⁴	200	300	200	100	100	12
Tomatoes:	Inshipments	3,336	3,245	1,686	3,538	5,624	
	Hawaii	17,500	17,500	17,500	16,800	14,200	72
Watercress:	Inshipments	45	41	42	45	41	
	Hawaii	860	800	650	850	700	94
All other vegetables:	Inshipments	26,885	26,426	28,581	28,974	30,639	
	Hawaii	11,470	13,850	14,790	20,020	18,300	37
Unspecified vegetables:	Inshipments ⁷	10,757	9,506	9,048	12,902	11,540	
Total:	Inshipments	151,312	148,812	146,110	158,816	168,686	
	Hawaii	100,410	94,900	89,420	87,450	84,960	33
	All	251,722	243,712	235,530	246,266	253,646	

-- = Negligible.

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

² Inshipment data revised for 2001-2004.

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

⁴ Fresh market only.

⁵ For processing and fresh market.

⁶ Processed lettuce, both local production and inshipments, are included in "All other vegetables".

⁷ Vegetable data received without commodity names specified.

SNAP BEANS

SNAP BEANS: Acreage, yield, production, price, and value, by county, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2001	210	5.2	1,100	97.0	1,067
2002	180	5.0	900	97.0	873
2003	200	5.0	1,000	96.0	960
2004	170	5.3	900	114.0	1,026
2005	130	5.4	700	109.0	763
County:					
Hawaii/Kauai ²					
2001	75	3.2	240	91.1	219
2002	50	3.0	150	98.0	147
2003	40	3.8	150	94.0	141
2004	30	4.7	140	143.0	200
2005	10	7.0	70	123.5	86
Honolulu					
2001	80	4.5	360	104.3	375
2002	75	3.9	290	107.5	312
2003	95	3.2	300	108.0	324
2004	95	5.6	530	115.0	610
2005	75	6.1	460	111.0	511
Maui					
2001	55	9.1	500	94.6	473
2002	55	8.4	460	90.0	414
2003	65	8.5	550	90.0	495
2004	45	5.1	230	94.0	216
2005	45	3.8	170	97.5	166

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, 2001-2005

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres ¹													
2001	14	18	17	25	18	19	15	19	15	16	19	15	210
2002	16	17	15	15	14	18	12	15	19	14	17	17	180
2003	19	18	15	16	17	16	15	15	17	15	19	18	200
2004	19	21	14	21	13	11	17	16	11	16	19	11	170
2005	12	7	9	9	11	10	15	11	15	10	12	11	130
Production – 1,000 pounds													
2001	97	73	97	131	101	82	103	109	83	70	79	75	1,100
2002	60	55	76	94	70	105	55	86	75	74	71	79	900
2003	75	78	72	112	106	75	84	74	79	70	93	82	1,000
2004	68	62	41	80	66	84	117	70	100	63	73	76	900
2005	30	39	57	57	74	67	109	61	85	41	48	32	700
Farm price – cents per pound													
2001	104.8	108.2	100.5	83.3	74.4	87.1	94.7	99.7	102.9	102.7	104.7	116.1	97.0
2002	106.4	106.1	101.9	90.2	90.0	91.9	83.5	94.3	104.5	99.1	102.1	98.3	97.0
2003	98.0	102.1	105.4	101.1	86.4	81.7	91.0	96.7	92.8	91.6	99.8	105.5	96.0
2004	117.2	118.3	117.6	111.6	106.9	92.1	100.1	109.8	134.2	120.5	122.8	123.2	114.0
2005	93.6	135.5	126.3	117.1	116.8	116.4	100.8	107.6	95.4	102.2	98.6	102.4	109.0

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 county, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State¹					
2001	320	21.9	7,000	23.0	1,610
2002	340	20.0	6,800	24.0	1,632
2003	310	21.6	6,700	23.0	1,541
2004	260	20.4	5,300	31.0	1,643
2005	260	21.9	5,700	30.0	1,710
County:					
Hawaii					
2001	210	23.8	5,000	22.8	1,140
2002	200	24.0	4,800	23.0	1,104
2003	200	24.5	4,900	23.1	1,132
2004	190	23.4	4,450	30.2	1,344
2005	180	24.4	4,400	29.3	1,289
Honolulu/Kauai/Maui²					
2001	110	18.2	2,000	23.5	470
2002	140	14.3	2,000	26.4	528
2003	110	16.4	1,800	22.7	409
2004	70	12.1	850	35.2	299
2005	80	16.3	1,300	32.4	421

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, 2001-2005

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2001	23	24	25	25	28	26	25	19	28	31	35	31	320
2002	26	26	31	28	36	28	31	27	27	26	27	27	340
2003	28	33	32	28	26	26	25	22	23	19	20	28	310
2004	18	24	20	25	21	20	19	24	23	23	21	22	260
2005	24	29	27	25	29	16	17	18	20	18	18	19	260
Processing and fresh market:													
Production – 1,000 pounds													
2001	605	533	765	650	741	556	541	446	418	557	609	579	7,000
2002	614	611	651	579	494	504	545	564	446	576	604	612	6,800
2003	655	601	596	679	579	568	599	541	481	436	469	496	6,700
2004	440	428	465	432	492	431	481	388	367	496	406	474	5,300
2005	508	585	503	573	593	386	351	386	363	418	482	552	5,700
Farm price – cents per pound													
2001	29.6	25.2	22.5	18.5	17.5	19.0	17.5	23.5	30.3	28.4	25.4	22.9	23.0
2002	23.8	19.7	17.7	17.9	18.5	23.7	26.8	26.9	30.0	29.7	29.8	25.3	24.0
2003	21.8	19.4	18.5	17.7	19.0	18.5	22.8	27.9	29.6	29.3	28.2	29.6	23.0
2004	31.9	30.7	29.3	30.1	27.3	29.9	27.4	30.4	33.4	34.8	34.1	33.8	31.0
2005	33.4	33.6	33.1	20.8	24.8	26.5	32.9	32.1	33.5	32.4	31.8	29.1	30.0

HEAD CABBAGE

HEAD CABBAGE: Acreage, yield, production, price, and value, by county, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2001	500	25.0	12,500	22.0	2,750
2002	540	24.1	13,000	21.0	2,730
2003	500	25.2	12,600	22.0	2,772
2004	360	25.0	9,000	30.0	2,700
2005	430	22.8	9,800	28.0	2,744
County:					
Hawaii/Honolulu/Kauai ²					
2001	330	23.8	7,850	23.0	1,806
2002	370	23.5	8,700	21.2	1,844
2003	335	23.9	8,000	21.6	1,728
2004	185	22.7	4,200	29.1	1,222
2005	230	23.0	5,300	28.5	1,511
Maui					
2001	170	27.4	4,650	20.3	944
2002	170	25.3	4,300	20.6	886
2003	165	27.9	4,600	22.7	1,044
2004	175	27.4	4,800	30.8	1,478
2005	200	22.5	4,500	27.4	1,233

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, 2001-2005

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2001	49	44	46	41	46	43	48	42	42	31	31	37	500
2002	45	47	51	46	48	48	47	44	42	40	40	42	540
2003	48	46	45	38	46	49	44	38	41	30	39	36	500
2004	22	22	28	36	39	32	26	25	27	26	40	37	360
2005	29	41	43	50	46	29	24	25	27	22	46	48	430
Production – 1,000 pounds													
2001	1,005	925	1,234	980	1,103	1,165	1,164	1,179	1,085	1,094	668	898	12,500
2002	1,036	1,010	1,134	944	1,070	1,205	1,106	1,188	1,138	1,055	948	1,166	13,000
2003	1,294	1,320	1,449	1,128	1,120	1,042	1,125	880	853	666	935	788	12,600
2004	595	556	589	970	973	1,008	871	595	591	633	741	878	9,000
2005	656	665	1,076	1,163	1,011	1,072	646	538	481	514	773	1,205	9,800
Farm price – cents per pound													
2001	25.8	26.3	26.8	23.4	20.9	16.6	16.5	18.1	20.8	22.1	25.6	24.3	22.0
2002	27.5	25.3	24.7	20.5	19.2	18.1	16.7	17.2	17.8	19.7	24.2	22.3	21.0
2003	22.4	20.9	19.7	19.0	18.5	19.3	18.3	20.2	24.7	27.9	28.3	31.8	22.0
2004	38.3	34.4	29.8	27.1	27.3	26.4	25.8	28.7	32.3	34.0	32.2	30.6	30.0
2005	27.6	27.1	26.8	25.9	25.6	26.4	27.0	28.9	29.3	34.2	31.9	29.6	28.0

CELERY

CELERY: Acreage, yield, production, price, and value, by county, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2001	50	23.0	1,150	32.0	368
2002	50	22.0	1,100	33.0	363
2003	45	26.7	1,200	32.0	384
2004	30	30.0	900	34.0	306
2005	25	33.2	830	37.0	307
County:					
Hawaii					
2001	25	26.0	650	33.2	216
2002	25	24.0	600	35.0	210
2003	25	28.0	700	34.8	244
2004	20	30.0	600	36.2	217
2005 ²					
Maui					
2001	25	20.0	500	30.4	152
2002	25	20.0	500	30.5	153
2003	20	25.0	500	28.0	140
2004	10	30.0	300	29.6	89
2005 ²					

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

² Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SWEET CORN

SWEET CORN: Acreage, yield, production, price, and value, by county, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2001	440	4.3	1,900	64.0	1,216
2002	610	3.9	2,400	54.0	1,296
2003	830	3.0	2,500	51.0	1,275
2004	540	3.3	1,800	58.0	1,044
2005	410	4.1	1,700	55.0	935
County:					
Hawaii/Kauai ²					
2001	170	5.0	850	59.4	505
2002	270	4.1	1,100	46.6	513
2003	320	3.6	1,150	42.0	483
2004	260	2.6	670	44.5	298
2005 ³					
Honolulu/Maui ⁴					
2001	270	3.9	1,050	67.7	711
2002	340	3.8	1,300	60.2	783
2003	510	2.6	1,350	58.7	792
2004	280	4.0	1,130	66.0	746
2005 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 Data not shown separately to avoid disclosure of individual operations.

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

SWEET CORN: Acreage, production, and price, State of Hawaii, 2001-2005

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2001	35	17	26	33	46	40	39	45	35	40	46	38	440
2002	33	29	45	47	62	55	49	49	52	46	70	73	610
2003	56	70	83	77	77	91	81	66	74	56	68	31	830
2004	42	43	52	51	61	45	45	43	37	32	49	40	540
2005	26	18	24	32	30	39	41	48	39	48	38	27	410
Production – 1,000 pounds													
2001	98	46	120	163	217	220	197	241	122	107	184	185	1,900
2002	133	90	140	169	190	269	210	215	167	177	340	300	2,400
2003	156	132	170	276	302	227	289	210	183	203	205	147	2,500
2004	110	97	112	155	203	179	161	139	146	120	199	179	1,800
2005	60	63	71	114	137	249	219	241	149	155	122	120	1,700
Farm price – cents per pound													
2001	67.9	73.9	65.8	58.3	76.7	62.3	60.0	60.7	60.4	59.3	62.9	65.4	64.0
2002	62.7	66.0	58.4	58.0	49.4	46.3	48.6	57.5	64.5	52.0	41.7	62.3	54.0
2003	59.7	48.7	39.2	57.2	41.2	50.7	45.6	49.9	50.8	60.7	59.5	53.2	51.0
2004	48.9	47.4	52.2	53.5	45.5	56.1	56.4	60.6	79.4	69.4	64.7	59.8	58.0
2005	58.1	55.3	54.8	53.3	59.0	54.0	53.2	51.0	57.9	48.3	62.5	61.2	55.0

CUCUMBERS

CUCUMBERS: Acreage, yield, production, price, and value, by county, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2001	370	14.3	5,300	44.0	2,332
2002	390	13.8	5,400	46.0	2,484
2003	410	14.4	5,900	48.0	2,832
2004	400	14.8	5,900	53.0	3,127
2005	440	13.6	6,000	46.0	2,760
County:					
Hawaii/Kauai ²					
2001	30	19.0	570	46.1	263
2002	30	21.3	640	45.2	289
2003	30	20.0	600	58.7	352
2004	20	17.5	350	56.8	199
2005	15	14.7	220	53.1	117
Honolulu					
2001	185	12.1	2,240	44.7	1,001
2002	180	12.2	2,200	50.7	1,115
2003	200	12.3	2,450	52.0	1,274
2004	195	11.5	2,250	55.0	1,238
2005	230	13.0	3,000	45.1	1,353
Maui					
2001	155	16.1	2,490	42.9	1,068
2002	180	14.2	2,560	42.2	1,080
2003	180	15.8	2,850	42.3	1,206
2004	185	17.8	3,300	51.2	1,690
2005	195	14.3	2,780	46.4	1,290

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, 2001-2005

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres ¹													
2001	33	31	33	31	25	32	31	31	29	32	32	30	370
2002	35	36	35	33	33	33	34	34	35	36	36	33	390
2003	32	32	34	33	36	34	35	36	33	35	36	34	410
2004	34	32	31	31	31	33	32	32	35	35	37	37	400
2005	35	29	36	35	36	35	37	37	52	38	38	34	440
Production – 1,000 pounds													
2001	436	447	503	510	460	498	488	447	366	455	366	324	5,300
2002	348	359	434	457	447	558	499	507	437	395	456	503	5,400
2003	406	381	380	414	624	670	656	596	395	483	496	399	5,900
2004	348	291	396	405	538	701	656	659	552	525	407	422	5,900
2005	198	289	376	473	697	657	682	607	562	557	523	379	6,000
Farm price – cents per pound													
2001	43.7	46.7	46.2	43.6	40.0	41.0	42.6	42.4	44.2	44.5	43.4	52.6	44.0
2002	58.3	57.4	54.8	43.3	41.2	35.3	36.7	44.1	47.0	42.7	50.2	49.6	46.0
2003	49.7	55.7	47.5	49.2	42.7	43.0	43.2	43.6	50.6	51.5	54.6	54.0	48.0
2004	56.3	60.9	64.0	55.7	44.9	44.1	44.4	49.1	54.9	58.2	62.0	58.5	53.0
2005	56.3	65.1	52.7	59.1	41.5	42.0	38.1	39.2	43.0	46.2	45.3	48.8	46.0

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

DAIKON

DAIKON: Acreage, yield, production, price, and value, by county, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State¹					
2001	330	9.7	3,200	28.0	896
2002	250	10.0	2,500	30.0	750
2003	220	10.5	2,300	31.0	713
2004	200	8.5	1,700	32.0	544
2005²					
County:					
Hawaii					
2001	230	9.6	2,200	26.3	579
2002	185	9.5	1,750	28.0	490
2003	165	11.5	1,900	30.0	570
2004	170	7.6	1,300	30.0	390
2005²					
Honolulu/Kauai/Maui³					
2001	100	10.0	1,000	31.7	317
2002	65	11.5	750	34.6	260
2003	55	7.3	400	35.8	143
2004	30	13.3	400	38.5	154
2005²					

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

² Data not shown to avoid disclosure of individual operations.

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



EGGPLANT

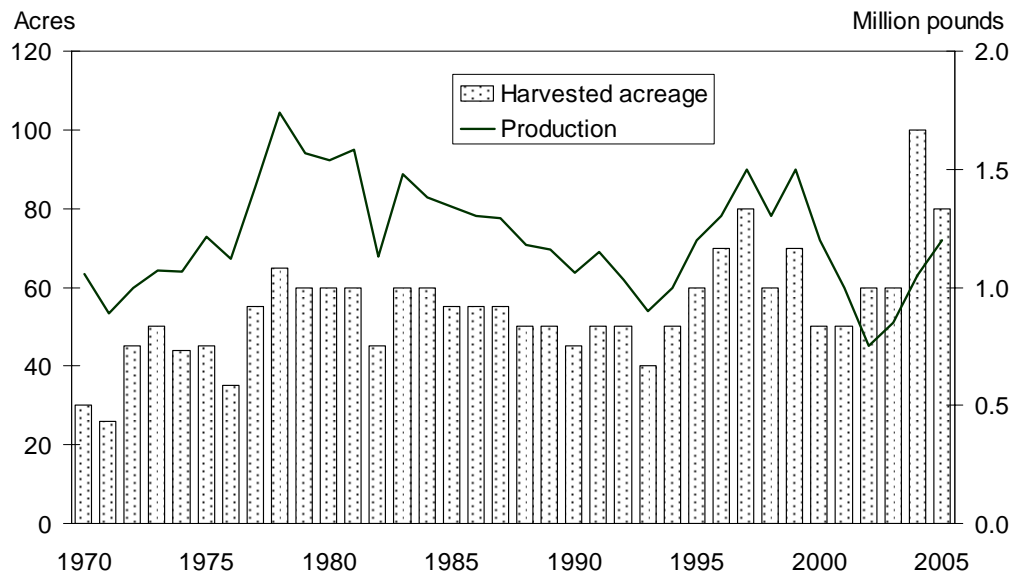
EGGPLANT: Acreage, yield, production, price, and value, by county, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State¹					
2001	50	20.0	1,000	66.0	660
2002	60	12.5	750	73.0	548
2003	60	14.2	850	74.0	629
2004	100	10.5	1,050	77.0	809
2005	80	14.6	1,200	81.0	972
County:					
Hawaii/Kauai/Maui²					
2001	15	16.0	240	85.0	204
2002	10	11.0	110	90.9	100
2003	20	12.5	250	81.2	203
2004	15	12.7	190	100.0	190
2005	10	17.0	170	74.7	127
Honolulu					
2001	35	21.7	760	60.0	456
2002	50	12.8	640	70.0	448
2003	40	15.0	600	71.0	426
2004	85	10.1	860	72.0	619
2005	70	14.7	1,030	82.0	845

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, 1970-2005



LETTUCES

LETTUCES (HEAD, SEMI-HEAD): Acreage, yield, production, price, and value, by county, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2001	140	8.6	1,200	50.0	600
2002	120	10.0	1,200	57.0	684
2003	120	10.0	1,200	58.0	696
2004	110	11.8	1,300	61.0	793
2005	110	10.0	1,100	68.0	748
County:					
Hawaii					
2001	85	10.5	890	43.0	383
2002	75	10.9	820	50.0	410
2003	70	12.1	850	51.6	439
2004	60	12.7	760	54.0	410
2005	65	10.8	700	60.2	421
Honolulu/Kauai/Maui ²					
2001	55	5.6	310	70.1	217
2002	45	8.4	380	72.0	274
2003	50	7.0	350	73.4	257
2004	50	10.8	540	70.9	383
2005	45	8.9	400	81.7	327

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, 2001-2005

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2001	14	13	14	13	12	12	11	9	11	10	10	11	140
2002	11	12	11	10	11	10	10	11	8	8	9	9	120
2003	10	10	12	11	10	9	10	10	9	9	10	10	120
2004	8	11	7	8	9	9	10	10	9	9	10	10	110
2005	8	9	8	11	10	9	8	8	9	9	9	12	110
Production – 1,000 pounds													
2001	97	101	127	115	114	100	94	103	93	97	92	67	1,200
2002	94	83	123	124	112	104	96	106	96	91	79	92	1,200
2003	95	90	110	114	107	97	110	96	98	99	94	90	1,200
2004	73	83	94	93	117	134	129	125	109	131	107	105	1,300
2005	73	74	110	113	103	90	92	83	83	92	98	89	1,100
Farm price – cents per pound													
2001	50.0	49.9	49.4	49.4	47.2	48.7	50.3	50.1	52.1	50.8	51.2	53.2	50.0
2002	57.2	50.7	55.0	61.8	59.9	61.4	55.0	54.3	54.5	56.0	57.6	58.5	57.0
2003	57.9	58.3	58.7	59.1	55.5	56.3	55.4	57.3	59.2	55.8	57.5	65.3	58.0
2004	60.8	62.1	57.9	59.9	61.1	60.2	59.9	60.8	62.2	61.1	60.9	65.6	61.0
2005	64.0	65.3	68.1	66.8	67.6	66.7	77.2	65.3	66.1	74.1	67.1	66.7	68.0

DRY ONIONS

DRY ONIONS: Acreage, yield, production, price, and value, by county, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State¹					
2001	300	18.0	5,400	75.0	4,050
2002	200	10.5	2,100	96.0	2,016
2003	330	10.0	3,300	84.0	2,772
2004	180	8.9	1,600	149.0	2,384
2005	220	10.5	2,300	132.0	3,036
County:					
Hawaii/Honolulu/Kauai²					
2001	150	21.7	3,250	63.3	2,057
2002	70	10.9	760	73.0	555
2003	185	6.4	1,175	58.9	692
2004	55	8.2	450	86.4	389
2005	95	7.9	750	80.9	607
Maui					
2001	150	14.3	2,150	92.7	1,993
2002	130	10.3	1,340	109.0	1,461
2003	145	14.7	2,125	97.9	2,080
2004	125	9.2	1,150	173.5	1,995
2005	125	12.4	1,550	156.7	2,429

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, 2001-2005

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2001	10	33	28	29	29	30	16	20	21	25	15	44	300
2002	10	16	19	20	20	19	22	10	10	15	23	16	200
2003	26	16	62	56	34	35	17	18	12	12	34	8	330
2004	13	11	9	21	14	15	10	15	12	15	26	19	180
2005	22	17	21	24	9	19	22	15	9	31	22	9	220
Production – 1,000 pounds													
2001	108	165	927	1,355	568	848	418	289	263	135	188	136	5,400
2002	53	101	179	150	157	167	202	137	137	188	408	221	2,100
2003	191	121	327	470	381	570	480	173	171	136	200	80	3,300
2004	89	52	52	135	142	134	117	142	167	167	228	175	1,600
2005	51	52	69	404	185	330	352	267	143	235	142	70	2,300
Farm price – cents per pound													
2001	113.5	93.1	73.9	68.0	81.5	58.1	55.4	73.0	98.9	113.3	109.0	110.9	75.0
2002	109.8	85.3	81.7	93.5	75.3	72.2	80.2	103.0	105.1	107.1	111.2	110.4	96.0
2003	95.0	108.4	100.5	102.7	78.6	56.2	61.0	80.3	95.1	103.7	94.9	129.6	84.0
2004	137.1	152.9	117.9	126.0	183.8	117.5	174.8	161.5	172.9	168.5	128.8	134.3	149.0
2005	164.5	152.0	163.4	139.5	157.5	100.1	106.6	126.4	144.4	132.3	156.6	174.5	132.0

GREEN ONIONS

GREEN ONIONS: Acreage, yield, production, price, and value, by county, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2001	120	11.7	1,400	89.0	1,246
2002	125	12.0	1,500	89.0	1,335
2003	130	12.3	1,600	90.0	1,440
2004	130	12.3	1,600	97.0	1,552
2005	155	11.0	1,700	99.0	1,683
County:					
Hawaii/Kauai/Maui ²					
2001	20	10.0	200	89.0	178
2002	30	6.7	200	105.2	210
2003	20	10.0	200	103.8	208
2004	15	13.3	200	104.1	208
2005	15	13.3	200	114.0	228
Honolulu					
2001	100	12.0	1,200	89.0	1,068
2002	95	13.7	1,300	86.5	1,125
2003	110	12.7	1,400	88.0	1,232
2004	115	12.2	1,400	96.0	1,344
2005	140	10.7	1,500	97.0	1,455

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, 2001-2005

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2001	10	10	8	10	10	10	11	11	9	10	10	11	120
2002	9	9	10	10	11	12	11	11	12	10	10	10	125
2003	10	11	13	10	11	11	10	11	10	11	11	11	130
2004	11	9	8	10	12	11	11	12	11	10	12	13	130
2005	15	14	13	15	14	14	9	10	11	11	12	17	155
Production – 1,000 pounds													
2001	127	123	119	144	135	121	121	123	102	96	88	101	1,400
2002	114	90	111	121	109	121	145	142	133	125	134	155	1,500
2003	133	134	132	138	140	148	136	151	138	122	108	120	1,600
2004	111	95	102	140	147	138	154	156	147	145	130	135	1,600
2005	104	88	131	132	157	145	147	141	148	148	161	198	1,700
Farm price – cents per pound													
2001	89.7	90.3	88.0	88.6	84.3	85.6	86.6	88.5	89.3	91.5	92.0	97.3	89.0
2002	98.0	91.5	94.7	92.9	89.4	88.1	82.7	85.5	89.8	86.8	87.6	85.5	89.0
2003	87.1	88.7	89.1	90.0	88.6	91.5	88.2	88.5	88.9	85.5	94.5	100.8	90.0
2004	103.8	115.8	115.1	103.3	88.0	86.5	83.4	93.3	89.7	96.2	104.5	99.9	97.0
2005	112.6	127.3	126.3	107.2	100.4	93.6	91.3	87.3	84.6	91.6	91.6	94.9	99.0

GREEN PEPPERS

GREEN PEPPERS: Acreage, yield, production, price, and value, State of Hawaii, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
2001	210	14.8	3,100	60.0	1,860
2002	215	14.9	3,200	59.0	1,888
2003	220	15.0	3,300	61.0	2,013
2004	240	13.3	3,200	69.0	2,208
2005	230	13.0	3,000	64.0	1,920

GREEN PEPPERS: Acreage, production, and price, State of Hawaii, 2001-2005

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres ¹													
2001	17	17	17	18	18	18	19	18	17	17	17	17	210
2002	17	17	17	18	18	18	18	18	18	17	19	20	215
2003	17	17	18	17	17	18	19	19	20	20	19	19	220
2004	20	19	19	20	20	20	19	20	20	20	22	21	240
2005	22	20	23	23	22	20	23	22	22	21	21	19	230
Production – 1,000 pounds													
2001	265	267	254	240	261	259	274	272	251	250	248	259	3,100
2002	264	262	283	271	271	264	266	277	271	256	267	248	3,200
2003	248	267	270	269	279	280	306	278	278	274	270	281	3,300
2004	295	274	221	258	281	280	282	284	279	330	218	198	3,200
2005	218	230	274	314	310	168	240	241	226	236	253	290	3,000
Farm price – cents per pound													
2001	61.5	67.2	75.4	64.8	63.4	54.9	54.2	55.9	53.8	54.2	58.2	57.2	60.0
2002	62.9	57.4	64.5	62.9	62.3	60.8	56.1	53.1	55.1	55.2	57.9	60.1	59.0
2003	60.9	61.3	63.5	62.9	64.2	61.9	63.8	58.2	55.8	57.2	57.9	64.2	61.0
2004	71.7	76.5	78.1	78.7	71.6	64.2	60.1	57.1	57.2	66.6	74.4	78.8	69.0
2005	58.9	61.3	72.3	61.1	58.9	69.4	68.5	63.3	58.4	62.2	64.6	69.9	64.0

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

ROMAINE

ROMAINE: Acreage, yield, production, price, and value, by county, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2001	190	10.5	2,000	45.0	900
2002	150	12.0	1,800	47.0	846
2003	160	11.9	1,900	44.0	836
2004	140	10.7	1,500	50.0	750
2005	140	12.1	1,700	59.0	1,003
County:					
Hawaii/Honolulu ²					
2001	135	10.7	1,450	47.3	686
2002	120	12.1	1,450	48.2	699
2003	125	11.6	1,450	45.5	660
2004	110	10.0	1,100	49.6	546
2005	105	10.5	1,100	61.7	679
Maui					
2001	55	10.0	550	38.9	214
2002	30	11.7	350	42.0	147
2003	35	12.9	450	39.0	176
2004	30	13.3	400	51.0	204
2005	35	17.1	600	54.0	324

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, 2001-2005

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2001	19	22	21	24	15	14	10	9	12	11	17	16	190
2002	17	15	16	14	14	10	9	9	8	9	12	17	150
2003	19	13	14	18	13	11	10	10	9	12	13	18	160
2004	8	18	14	12	10	9	9	12	10	10	12	16	140
2005	12	16	13	15	15	11	10	7	7	8	11	15	140
Production – 1,000 pounds													
2001	238	264	194	285	179	154	114	104	94	99	152	123	2,000
2002	155	181	215	184	173	123	124	114	113	123	120	175	1,800
2003	194	148	173	184	205	163	131	127	125	132	164	154	1,900
2004	107	131	107	119	124	136	125	131	123	123	128	146	1,500
2005	143	131	155	175	176	130	134	124	109	130	142	151	1,700
Farm price – cents per pound													
2001	45.4	48.1	43.8	44.3	43.1	42.6	44.1	45.4	44.7	43.2	46.9	46.7	45.0
2002	41.4	50.6	58.0	51.6	45.9	44.5	42.3	43.5	44.5	44.9	44.3	43.5	47.0
2003	40.4	41.1	39.4	44.9	37.8	49.5	47.3	46.3	45.6	45.2	45.1	49.3	44.0
2004	54.7	54.5	42.2	45.3	52.5	47.6	47.2	46.7	49.1	50.6	51.2	56.8	50.0
2005	47.7	46.3	48.1	57.4	60.7	60.6	62.3	73.5	62.2	62.2	63.4	66.7	59.0

ITALIAN SQUASH

ITALIAN SQUASH: Acreage, yield, production, price, and value, by county, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2001	160	11.3	1,800	50.0	900
2002	175	8.0	1,400	46.0	644
2003	150	12.0	1,800	52.0	936
2004	230	7.4	1,700	54.0	918
2005	200	7.5	1,500	56.0	840
County:					
Hawaii/Honolulu/Kauai ²					
2001	100	10.0	1,000	50.0	500
2002	100	7.7	770	47.0	362
2003	65	11.1	720	48.8	351
2004	155	6.1	940	53.2	500
2005	110	7.7	850	56.0	476
Maui					
2001	60	13.3	800	50.0	400
2002	75	8.4	630	44.8	282
2003	85	12.7	1,080	54.2	585
2004	75	10.1	760	55.0	418
2005	90	7.2	650	56.0	364

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

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



SWEETPOTATOES

SWEETPOTATOES: Acreage, yield, production, price, and value, by county, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2001	220	8.2	1,800	50.0	900
2002	300	7.7	2,300	43.0	989
2003	210	10.0	2,100	41.0	861
2004	400	11.5	4,600	47.0	2,162
2005	410	15.4	6,300	61.0	3,843
County:					
Hawaii/Honolulu/Kauai ²					
2001	170	8.4	1,420	47.3	672
2002	205	8.0	1,650	39.8	657
2003	150	9.6	1,440	36.4	524
2004	350	11.4	4,000	45.8	1,832
2005	340	16.8	5,720	60.6	3,466
Maui					
2001	50	7.6	380	60.0	228
2002	95	6.8	650	51.1	332
2003	60	11.0	660	50.9	336
2004	50	12.0	600	55.0	330
2005	70	8.3	580	65.0	377

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 county, 2001-2005

TABLE 1. Number of farms, acreage, marketings, price, and value, by county, 2001-2005											
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</i>	<i>----- Acres -----</i>			<i>----- 1,000 pounds -----</i>			<i>----- Cents per pound -----</i>			<i>1,000 dollars</i>
State											
2001	170	420	20	440	200	6,200	6,400	53.2	50.0	53.0	3,392
2002	150	400	30	430	300	5,800	6,100	54.2	51.2	54.0	3,294
2003	150	390	30	420	200	4,800	5,000	53.9	56.3	54.0	2,700
2004	130	360	10	370	100	5,100	5,200	54.0	53.8	54.0	2,808
2005	110	350	10	360	100	3,900	4,000	54.0	54.0	54.0	2,160
County:											
Hawaii											
2001	60	70	20	90	150	650	800	60.4	48.9	51.5	443
2002	50	60	20	80	200	550	750	61.4	48.4	55.3	415
2003	40	55	15	70	130	450	580	59.7	54.9	57.8	335
2004	30	50	10	60	100	400	500	60.0	53.1	57.5	288
2005	30	40	10	50	60	190	250	59.0	50.0	56.8	142
Honolulu/Maui ²											
2001	40	100	*	100	50	1,250	1,300	53.0	57.3	53.0	691
2002	35	90	10	100	60	1,190	1,250	54.6	67.2	55.2	690
2003	40	85	15	100	50	1,050	1,100	54.7	61.6	55.0	605
2004	35	75	*	75	*	800	800	55.1	³	55.1	441
2005	30	75	*	75	40	810	850	56.4	60.0	56.6	481
Kauai											
2001	70	250	*	250	*	4,300	4,300	52.5	³	52.5	2,258
2002	65	250	*	250	40	4,060	4,100	53.4	³	53.4	2,189
2003	70	250	*	250	20	3,300	3,320	53.0	³	53.0	1,760
2004	65	235	*	235	*	3,900	3,900	53.3	³	53.3	2,079
2005	50	235	*	235	*	2,900	2,900	53.0	³	53.0	1,537

* = 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, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
2001	580	30.2	17,500	53.0	9,275
2002	580	30.2	17,500	55.0	9,625
2003	560	31.3	17,500	58.0	10,150
2004	600	28.0	16,800	66.0	11,088
2005	660	21.5	14,200	69.0	9,798

TOMATOES: Acreage, production, and price, State of Hawaii, 2001-2005

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres ¹													
2001	48	47	61	64	60	49	49	47	44	50	55	60	580
2002	60	60	61	62	62	51	53	48	48	46	55	56	580
2003	55	57	59	56	55	54	54	54	52	59	62	62	560
2004	61	59	52	52	52	51	48	47	49	59	58	59	600
2005	46	61	55	55	55	55	53	53	68	66	68	64	660
Production – 1,000 pounds													
2001	1,423	1,316	1,402	1,394	1,453	1,805	1,547	1,502	1,577	1,463	1,283	1,335	17,500
2002	1,370	1,431	1,553	1,412	1,460	1,491	1,543	1,534	1,481	1,383	1,352	1,490	17,500
2003	1,407	1,350	1,386	1,468	1,503	1,478	1,564	1,497	1,438	1,517	1,529	1,363	17,500
2004	1,440	1,070	1,441	1,443	1,748	1,324	1,678	1,453	1,323	1,527	1,079	1,274	16,800
2005	785	811	1,144	1,476	1,487	1,081	1,128	1,310	1,343	1,053	1,141	1,441	14,200
Farm price – cents per pound													
2001	58.8	63.2	61.6	55.6	56.6	51.5	43.5	49.7	43.7	45.9	55.3	54.7	53.0
2002	64.3	48.3	55.5	57.0	59.5	57.3	51.8	48.5	42.4	51.2	58.7	66.7	55.0
2003	65.6	58.9	60.2	54.3	52.7	57.1	57.1	53.6	54.0	60.9	61.2	60.9	58.0
2004	59.3	64.4	72.4	65.6	71.6	61.9	44.1	55.5	60.0	74.8	80.0	89.7	66.0
2005	76.9	71.6	68.6	73.0	64.0	76.2	68.0	66.3	61.9	69.1	65.8	71.3	69.0

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

WATERMELONS

WATERMELONS: Acreage, yield, production, price, and value, by county, 2001-2005

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2001	520	20.2	10,500	24.0	2,520
2002	550	20.5	11,300	26.0	2,938
2003	450	26.4	11,900	24.0	2,856
2004	510	19.8	10,100	24.0	2,424
2005	450	25.1	11,300	27.0	3,051
County:					
Hawaii/Kauai/Maui ²					
2001	5	24.0	120	24.0	29
2002	30	10.0	300	33.3	100
2003	40	5.3	210	29.3	62
2004	125	4.8	600	24.0	144
2005 ³					
Honolulu					
2001	515	20.2	10,380	24.0	2,491
2002	520	21.2	11,000	25.8	2,838
2003	410	28.5	11,690	23.9	2,794
2004	385	24.7	9,500	24.0	2,280
2005 ³					

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.

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

OTHER VEGETABLES

OTHER VEGETABLES: Acreage, yield, production, price, and value, State of Hawaii, 2001-2005

Crop and year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
Bittermelon					
2001	15	16.7	250	80.0	200
2002	20	10.0	200	90.0	180
2003	15	14.7	220	70.0	154
2004	20	12.5	250	80.0	200
2005	30	8.3	250	93.0	233
Broccoli					
2001	155	3.5	550	65.0	358
2002	150	3.7	550	68.0	374
2003	170	4.4	750	60.0	450
2004	125	4.0	500	67.0	335
2005	125	4.8	600	73.0	438
Burdock					
2001	15	10.0	150	145.0	218
2002 ¹					
2003 ¹					
2004 ¹					
2005 ¹					
Cabbage, mustard					
2001	130	12.3	1,600	50.0	800
2002	130	10.8	1,400	51.0	714
2003	130	10.0	1,300	52.0	676
2004	155	9.0	1,400	58.0	812
2005	110	12.7	1,400	56.0	784
Pumpkins					
2001	35	11.4	400	41.0	164
2002	80	5.0	400	40.0	160
2003	70	12.1	850	48.0	408
2004	40	6.3	250	58.0	145
2005	35	2.3	80	63.0	50
Radish					
2001	15	10.0	150	60.0	90
2002	10	10.0	100	55.0	55
2003 ¹					
2004 ¹					
2005 ¹					
Squash, Oriental (Hyotan and Togan)					
2001	20	25.0	500	35.0	175
2002	10	25.0	250	41.0	103
2003	10	20.0	200	46.0	92
2004	50	13.0	650	53.0	345
2005	40	11.3	450	55.0	247

¹ Data not shown to avoid disclosure of individual operations.

PROCESSED CHINESE CABBAGE AND DAIKON, WATERCRESS

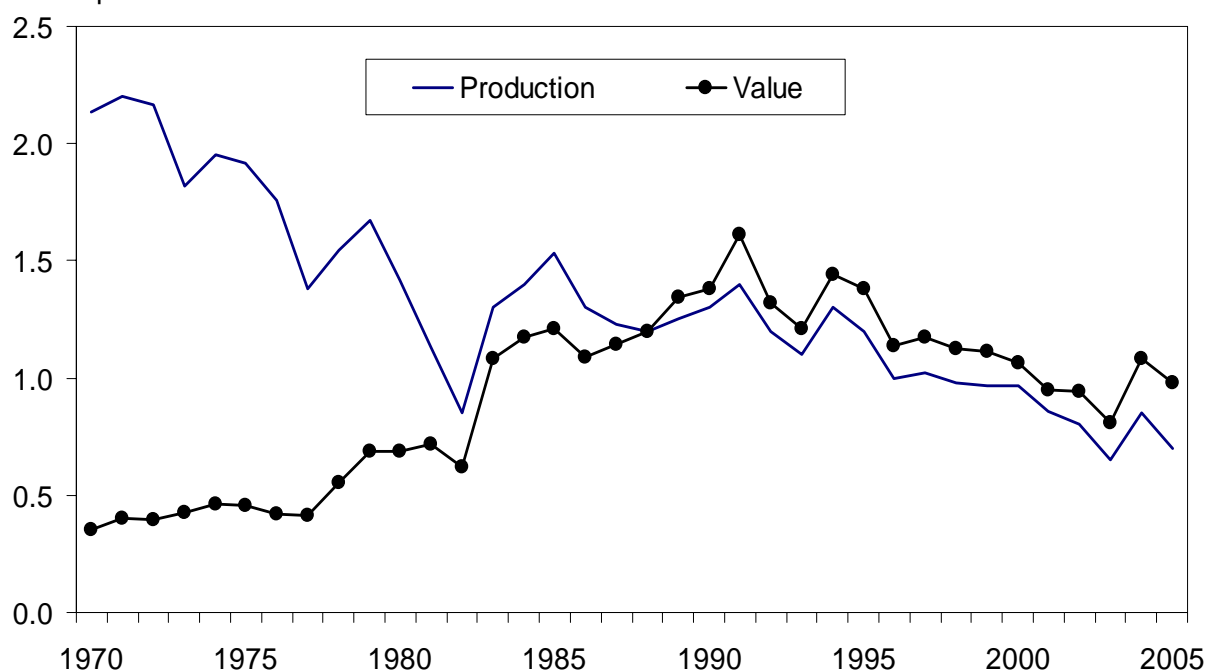
PROCESSED CHINESE CABBAGE AND DAIKON: Quantity processed, price, and value, State of Hawaii, 2001-2005

Year	Chinese cabbage			Daikon		
	Quantity processed	Farm price	Value of sales	Quantity processed	Farm price	Value of sales
	1,000 pounds	Cents per pound	1,000 dollars	1,000 pounds	Cents per pound	1,000 dollars
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
2004 ¹						
2005 ¹						

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

WATERCRESS: Production and Farm Value, State of Hawaii, 1970-2005

Million pounds and dollars



WATERCRESS: Acreage, production, price, and value, State of Hawaii, 2001-2005

Year	Acreage in crop	Production	Farm price	Value of sales
	Acres	1,000 pounds	Cents per pound	1,000 dollars
2001	35	860	110.0	946
2002	35	800	118.0	944
2003	30	650	125.0	812
2004	30	850	127.0	1,080
2005	35	700	140.0	981

2005 CATTLE, MILK, AND HOG HIGHLIGHTS

CATTLE

Cattle marketings during 2005 totaled 29.9 million pounds, live weight. This was 14 percent less than 2004. This decrease was the result of declines in both the number of cattle and calves sold and the average live weight of the cattle and calves marketed. The 54,000 head of cattle and calves marketed was 7 percent less than 2004. When compared with the previous year, there were fewer cattle weighing more than 500 pounds and more calves weighing less than 500 pounds marketed. Exports during 2005, which totaled 42,000 head, accounted for 78 percent of cattle and calves sold. The majority of the animals exported were calves weighing less than 500 pounds, live weight. Local commercial slaughter, during 2005, dropped 12 percent from 2004 to 9,200 head.

The annual average price ranchers received for all cattle and calves marketed increased 18 percent to \$76.20 per cwt. This increase resulted from the combined effect of the higher average price for the animals marketed and an increase in the number of higher priced calves marketed in 2005.

Cash revenues for 2005 increased 1 percent from 2004 to \$22.8 million, the result of higher prices and heavier animals marketed.

The inventory of cattle and calves on Hawaii's ranches totaled 161,000 head on January 1, 2006, an increase of 4 percent from 2005 and 3 percent above 2004. The island of Hawaii which accounts for 74 percent of the State's total recorded a 3 percent increase in inventory to 119,300 head.

MILK

Dairy cows produced 69.6 million pounds of milk in 2005, declining 14 percent from the previous year. The cow herd dropped 700 head from 2004 to 5,400 head in 2005. Cows produced an average of 12,889 pounds in 2005, down 308 pounds from the 2004 output. In 2005, producers received \$27.00 per hundredweight for milk sold, up \$1.30 from last year and increasing for the third consecutive year. Revenues at the farm gate level declined 9 percent from 2004 to total \$18.4 million in 2005. Milk fat averaged 3.40 percent in 2005 compared with 3.52 in 2004.

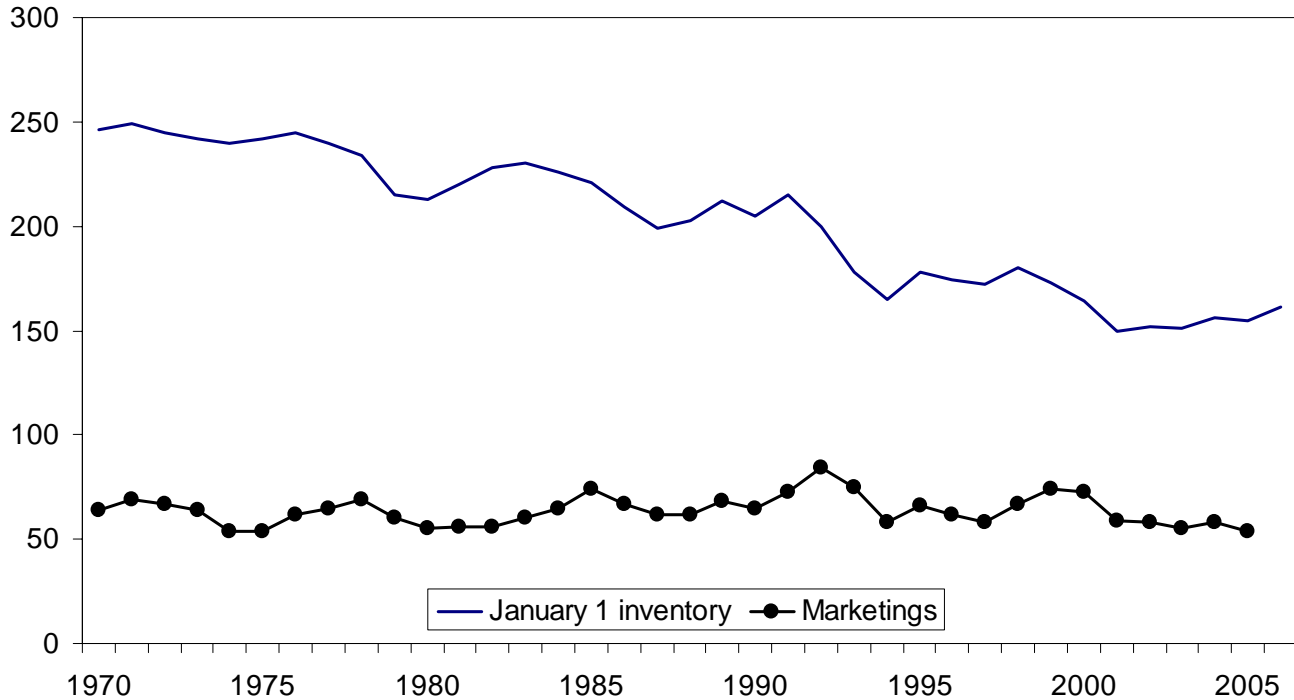
HOGS AND PIGS

Hog marketings during 2005 declined 1 percent to 5.1 million pounds. The number of hogs marketed decreased 4 percent to 26,000 head. However, the average price farmers received for their hogs and pigs increased 3 percent to \$89.80 per cwt. The net result is a 2 percent increase in cash receipts from the sales of hogs and pigs to \$4.6 million in 2005.

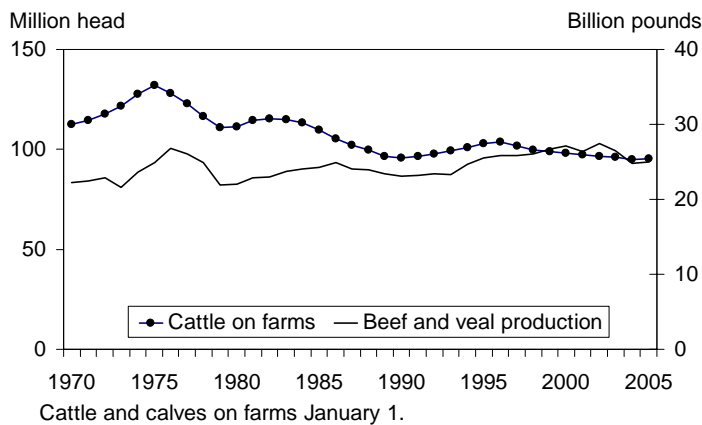
The total number of hogs and pigs on hand in the State on December 1, 2005 was 19,000 head, 3,000 head fewer than 2004. The 11,400 head of hogs and pigs on Honolulu County accounted for 60 percent of the State's inventory.

Cattle Inventory and Marketings, State of Hawaii, 1970-2006

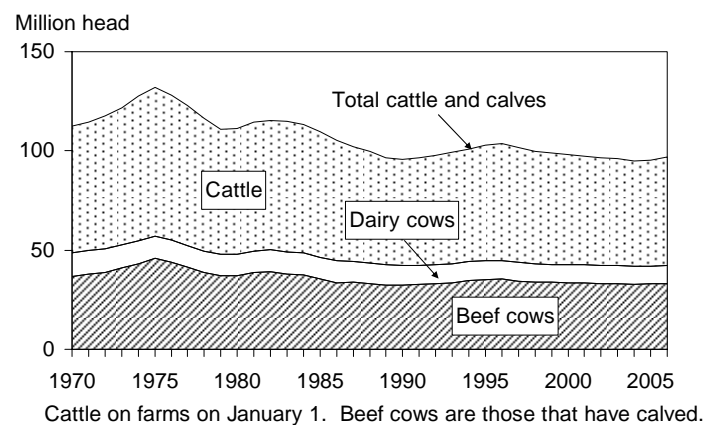
Thousand head



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 county, 2002-2006

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

2002	152	85	78	7	20	10	3	7	8	4	35
2003	151	86	79	7	21	12	3	6	7	5	32
2004	156	88	82	6	20	12	2	6	7	5	36
2005	155	87	81.3	5.7	22	15	2	5	7	5	34
2006	161	92	87.4	4.6	22	15	2	5	7	5	35

County:

Hawaii

2002	113.6	64.6	61.6	3.0	13.9	8.1	1.7	4.1	4.4	3.4	27.3
2003	113.0	64.7	61.4	3.3	14.6	9.4	1.6	3.7	4.4	3.9	25.3
2004	115.4	66.4	63.2	3.2	14.8	8.8	1.5	4.5	4.1	3.7	26.4
2005	116.0	64.4	61.4	3.0	16.2	11.7	1.2	3.3	4.5	3.7	27.2
2006	119.3	69.5	67.1	2.4	15.6	11.9	1.1	2.6	3.7	3.9	26.6

Honolulu

2002	8.4	4.9	1.2	3.7	1.6	.2	1.2	.2	.4	.1	1.4
2003	8.8	5.3	2.0	3.3	1.6	.3	1.0	.3	.4	.2	1.3
2004	10.6	6.2	3.0	3.2	1.5	.3	.9	.3	.6	.2	2.1
2005	8.0	5.1	2.4	2.7	1.2	.5	.5	.2	.3	.1	1.3
2006	8.2	5.0	2.8	2.2	1.2	.5	.6	.1	.4	.2	1.4

Kauai

2002	9.7	4.5	4.5	*	1.5	1.0	0	.5	1.2	.3	2.2
2003	10.4	5.4	5.4	*	2.0	1.2	0	.8	1.0	.4	1.6
2004	11.6	5.4	5.4	*	2.0	1.2	0	.8	1.1	.4	2.7
2005	12.0	6.3	6.3	*	1.9	1.1	0	.8	1.2	.4	2.2
2006	11.9	6.0	6.0	*	1.7	.9	0	.8	1.1	.3	2.8

Maui

2002	20.3	11.0	11.0	*	3.0	1.1	0	1.9	1.8	.5	4.0
2003	18.8	10.6	10.6	*	2.5	1.4	0	1.1	1.0	.6	4.1
2004	18.4	10.6	10.6	*	2.0	1.3	0	.7	.8	.6	4.4
2005	19.0	11.2	11.2	*	2.5	1.5	0	1.0	1.2	.6	3.5
2006	21.6	11.5	11.5	*	3.3	2.1	0	1.2	2.0	.6	4.2

* = Less than 50.

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

CATTLE

CATTLE AND CALVES: Number of operations, number and pounds sold, price, and value, by county, 2001-2005

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					
2001	750	59	31,520	57.10	18,007
2002	750	58	34,010	53.90	18,326
2003	750	55	29,570	58.10	17,192
2004	800	58	34,750	64.80	22,534
2005	800	54	29,930	76.20	22,798
County:					
Hawaii					
2001	440	45.0	22,957	58.50	13,438
2002	440	44.1	25,399	54.00	13,724
2003	440	45.7	23,167	59.60	13,811
2004	470	44.3	25,213	66.90	16,873
2005	470	41.1	21,019	80.50	16,924
Honolulu					
2001	50	1.9	1,522	39.70	604
2002	50	1.6	1,323	43.20	572
2003	50	.5	519	39.10	203
2004	50	1.7	1,166	58.40	681
2005	50	3.0	2,281	62.00	1,414
Kauai					
2001	110	4.3	2,785	54.80	1,527
2002	120	4.2	2,749	52.50	1,442
2003	120	2.3	1,818	50.20	912
2004	120	4.8	3,260	60.30	1,965
2005	120	3.8	2,785	62.20	1,731
Maui					
2001	150	7.4	4,256	57.30	2,438
2002	140	8.1	4,539	57.00	2,588
2003	140	6.5	4,066	55.70	2,266
2004	160	7.2	5,111	59.00	3,015
2005	160	6.1	3,845	71.00	2,729

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

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

³ Excludes custom slaughter for use on farms where produced.

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

CATTLE

CATTLE: Number sold, pounds, price, and value, State of Hawaii, 2001-2005

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>
2001	17	14,720	41.30	6,079
2002	20	18,050	41.40	7,473
2003	14	12,350	41.60	5,138
2004	24	20,470	47.30	9,682
2005	15	13,160	50.90	6,698

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 sold, pounds, price, and value, State of Hawaii, 2001-2005

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>
2001	42	16,800	71.00	11,928
2002	38	15,960	68.00	10,853
2003	41	17,220	70.00	12,054
2004	34	14,280	90.00	12,852
2005	39	16,770	96.00	16,099

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, 2001-2005

Year	Inventory beginning January 1	Calf crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory January 1 following year
				<i>1,000 head</i>			
2001	150	66	*	59	*	5	152
2002	152	63	*	58	1	5	151
2003	151	66	*	55	1	5	156
2004	156	63	*	58	1	5	155
2005	155	66	*	54	1	5	161

* = Less than 500.

CATTLE AND CALVES: Exports, State of Hawaii, 2001-2005

Year	Total	Cattle ¹	Calves ²	Steers	Heifers	Others
			<i>1,000 head</i>			
2001	46	4	42	27	19	NA
2002	42	4	38	25	17	NA
2003	44	3	41	25	19	NA
2004	43	9	34	26	17	NA
2005	42	3	39	22	18	2

NA = Not available.

¹ 500 pounds or more.

² 499 pounds or less.

CATTLE

CATTLE: Commercial slaughter and farm price, State of Hawaii, 2001-2005¹

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

Number of head² – 1,000 head

2001	1.2	1.1	1.3	1.2	1.0	1.1	1.0	1.2	.8	1.1	.6	1.0	12.7
2002	1.1	.9	1.0	.9	1.0	.9	1.1	1.1	.9	1.0	1.0	.8	11.6
2003	.8	.9	.8	1.0	.9	.9	1.1	.9	.9	.9	.8	.7	10.8
2004	.9	.8	.9	.8	.9	.8	1.0	1.1	.9	.9	.9	.8	10.5
2005	.7	.7	.8	.9	.8	.8	.7	.8	.7	.7	.8	.9	9.2

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

2001	663	614	724	636	534	621	551	684	475	604	384	527	7,016
2002	592	488	565	553	544	516	597	646	538	591	567	471	6,668
2003	484	530	485	551	525	488	626	545	525	516	461	441	6,176
2004	570	456	551	472	511	461	599	625	501	502	482	446	6,176
2005	397	385	469	512	453	497	437	504	430	444	456	483	5,466

Average farm price, dressed weight – cents per pound

2001	63.5	61.0	61.5	61.0	63.5	64.5	64.5	65.5	68.0	67.5	67.5	67.5	64.5
2002	63.5	65.0	63.5	65.0	67.5	65.5	63.0	64.5	63.0	62.5	68.0	71.0	65.0
2003	68.0	66.0	68.0	65.0	69.0	70.5	70.5	69.5	69.5	72.0	73.0	77.5	70.0
2004	71.0	74.0	74.5	72.5	72.0	79.0	72.0	71.0	76.0	76.5	75.0	80.0	74.0
2005	81.5	79.5	77.5	77.0	80.5	83.5	82.5	80.5	82.0	82.0	84.0	79.5	80.5

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, 1993-2005¹

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 -----		
1993	4,805	46.4	84.5	5,065	34.7	63.0	
1994	3,818	47.6	87.0	4,478	32.9	60.0	
1995	2,596	49.3	89.5	4,529	29.8	54.5	
1996	3,777	47.3	86.0	5,486	27.5	50.0	
1997	3,762	47.1	86.0	5,029	28.8	52.5	
1998	4,337	45.6	83.0	6,282	27.2	49.5	
1999	2,980	44.8	81.5	4,620	27.6	50.0	
2000	5,308	44.3	80.5	4,501	27.4	50.0	
2001	2,692	50.9	92.5	3,060	28.7	52.5	
2002	5,595	47.8	87.0	2,846	29.0	53.0	
2003	3,067	50.1	91.5	1,891	27.6	50.5	
2004	6,023	50.5	92.0	1,647	27.7	50.5	
2005	4,505	57.0	104.0	1,086	27.8	50.5	

¹ Excludes out-of-State shipments.

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

MILK

MILK: Number of operations, number of milk cows, production, sales, price, and value, by county, 2001-2005

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							
2001	30	7,500	14,107	105.8	104.1	25.50	26,546
2002	30	6,600	14,667	96.8	95.2	23.60	22,467
2003	30	6,500	14,154	92.0	90.5	23.70	21,449
2004 ⁴	30	6,100	13,197	80.5	78.5	25.70	20,175
2005 ⁴	30	5,400	12,889	69.6	68.0	27.00	18,387
County:							
Hawaii/Kauai ⁵							
2001	24	3,000	11,300	33.9	32.4	23.60	7,630
2002	24	3,100	11,484	35.6	34.3	23.50	8,066
2003	24	3,200	11,000	35.2	33.9	23.40	7,947
2004 ⁴							
2005 ⁴							
Honolulu							
2001	6	4,500	15,978	71.9	71.7	26.40	18,916
2002	6	3,500	17,486	61.2	60.9	23.70	14,401
2003	6	3,300	17,212	56.8	56.6	23.90	13,502
2004 ⁴							
2005 ⁴							

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

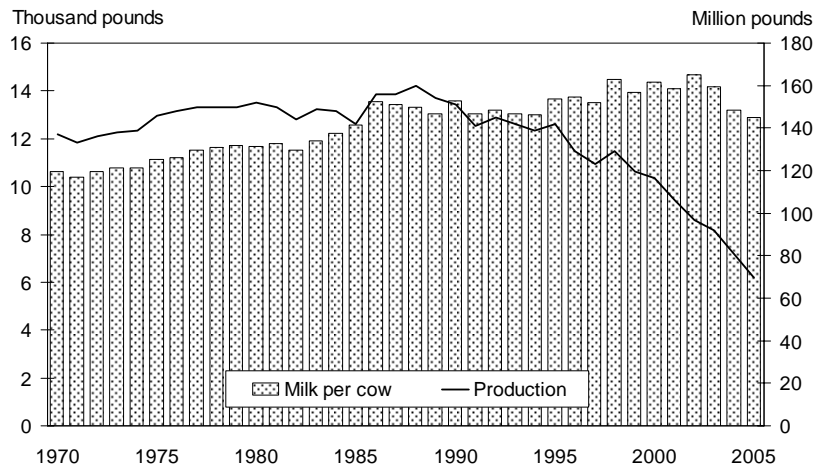
² Difference between "Production" and "Sold" is milk used on farms for human consumption, fed to calves or other uses.

³ Rounded to the nearest dime.

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

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

MILK: Production and Milk per Cow Annual Basis, State of Hawaii, 1970-2005



MILK: Number of cows, milk production, price, and milk fat, State of Hawaii, 2001-2005

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													
2001	7.7	7.7	7.5	7.5	7.5	7.6	7.5	7.4	7.4	7.4	7.3	7.4	7.5
2002	6.7	6.7	6.7	6.8	6.7	6.7	6.7	6.4	6.4	6.5	6.6	6.6	6.6
2003	6.6	6.6	6.5	6.4	6.5	6.3	6.4	6.5	6.6	6.6	6.6	6.5	6.5
2004	6.5	6.5	6.4	6.4	6.2	6.1	6.0	5.9	6.0	5.8	5.7	5.8	6.1
2005	5.8	5.7	5.6	5.5	5.4	5.2	5.3	5.4	5.3	5.2	5.1	5.0	5.4
Average monthly production per all cows in herd – pounds													
2001	1,170	1,115	1,345	1,295	1,295	1,250	1,240	1,205	1,055	1,095	1,025	1,025	14,107
2002	1,210	1,150	1,300	1,295	1,315	1,210	1,270	1,235	1,170	1,140	1,120	1,195	14,667
2003	1,225	1,150	1,275	1,265	1,275	1,255	1,250	1,170	1,060	1,060	1,015	1,140	14,154
2004	1,125	1,060	1,205	1,125	1,210	1,230	1,165	1,085	935	985	1,020	1,015	13,197
2005	1,000	980	1,125	1,125	1,205	1,210	1,150	1,095	1,020	1,020	980	1,040	12,889
Milk production – million pounds													
2001	9.0	8.6	10.1	9.7	9.7	9.5	9.3	8.9	7.8	8.1	7.5	7.6	105.8
2002	8.1	7.7	8.7	8.8	8.8	8.1	8.5	7.9	7.5	7.4	7.4	7.9	96.8
2003	8.1	7.6	8.3	8.1	8.3	7.9	8.0	7.6	7.0	7.0	6.7	7.4	92.0
2004	7.3	6.9	7.7	7.2	7.5	7.5	7.0	6.4	5.6	5.7	5.8	5.9	80.5
2005	5.8	5.6	6.3	6.2	6.5	6.3	6.1	5.9	5.4	5.3	5.0	5.2	69.6
Average price for milk sold to plants – dollars per hundredweight													
2001	25.9	24.5	25.0	24.9	25.5	25.8	26.2	26.0	26.1	26.4	25.8	24.1	25.50
2002	24.0	24.1	23.7	23.8	23.7	23.4	23.3	23.3	23.3	23.5	23.7	23.4	23.60
2003	23.4	23.0	22.9	22.6	22.8	22.7	22.9	24.4	25.3	25.3	25.2	24.7	23.70
2004	24.1	23.9	24.2	25.4	28.0	29.4	27.0	25.1	25.0	25.2	25.1	25.3	25.70
2005	28.6	26.9	27.2	27.0	27.4	26.4	26.4	26.9	26.8	26.7	26.8	26.8	27.00
Average milk fat for milk sold to plants – percent													
2001	3.4	3.4	3.4	3.3	3.4	3.3	3.3	3.4	3.4	3.4	3.5	3.5	3.43
2002	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.47
2003	3.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.6	3.6	3.49
2004	3.6	3.5	3.5	3.5	3.4	3.4	3.5	3.5	3.6	3.6	3.6	3.6	3.52
2005	3.6	3.5	3.4	3.5	3.4	3.4	3.3	3.3	3.4	3.4	3.4	3.4	3.40

HOGS

HOGS AND PIGS: December 1 inventory by classes and weight, State of Hawaii, 2001-2005

Year	All hogs and pigs	Breeding	Market				
			Total	Under 60lbs.	60-119 lbs.	120-179 lbs.	180 lbs. and over
1,000 head							
2001	27	6	21	9	6	4	2
2002	24	5	19	8	5	4	2
2003	23	5	18	8	5	3	2
2004	22	5.2	16.8	7.6	4.4	3.2	1.6
2005	19	5.0	14.0	6.0	3.9	2.4	1.7

HOGS AND PIGS: December 1 inventory by class, by county, 2001-2005

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>			
County: Hawaii				Kauai			
2001	4.4	.7	3.7	2001	2.0	.4	1.6
2002	2.8	.3	2.5	2002	2.1	.3	1.8
2003	2.2	.4	1.8	2003	2.0	.3	1.7
2004	1.4	.3	1.1	2004	2.2	.5	1.7
2005	1.1	.3	.8	2005	2.0	.4	1.6
Honolulu				Maui			
2001	14.8	3.0	11.8	2001	5.8	1.7	4.1
2002	12.8	2.8	10.0	2002	6.3	1.6	4.7
2003	13.5	2.7	10.8	2003	5.3	1.3	4.0
2004	13.0	2.5	10.5	2004	5.4	1.9	3.5
2005	11.4	2.8	8.6	2005	4.5	1.5	3.0

HOGS: Number of operations, number and pounds sold, price, and value, by county, 2001-2005

Year	Operations	Number sold ¹	Pounds sold (live weight) ²	Farm price (live weight)	Value of sales
	<i>Number</i>	<i>1,000 head</i>	<i>1,000 pounds</i>	<i>Dollars per hundredweight</i>	<i>1,000 dollars</i>
State³					
2001	230	31	5,425	83.20	4,514
2002	210	30	5,700	84.00	4,788
2003	210	27	5,130	84.70	4,345
2004	250	27	5,130	87.00	4,463
2005	230	26	5,070	89.80	4,553
County:					
Hawaii					
2001	70	3.3	574	81.00	465
2002	60	3.7	691	81.00	560
2003	60	2.8	530	83.00	440
2004	70	2.6	484	84.00	407
2005	70	1.8	369	86.50	319
Honolulu					
2001	70	18.9	3,390	84.00	2,848
2002	70	18.0	3,446	85.90	2,960
2003	70	15.5	3,016	86.00	2,594
2004	80	15.7	3,085	88.00	2,715
2005	70	15.6	3,069	90.00	2,762
Kauai					
2001	30	3.2	456	81.50	372
2002	30	3.3	528	81.50	430
2003	30	3.3	490	84.50	414
2004	40	3.6	545	88.50	482
2005	30	3.7	643	92.00	592
Maui					
2001	60	5.6	1,005	82.50	829
2002	50	5.0	1,035	81.00	838
2003	50	5.4	1,094	82.00	897
2004	60	5.1	1,016	84.50	859
2005	60	4.9	989	89.00	880

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 an 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, 2001-2005

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

Number of head^{1 2} – 1,000 head

2001	2.9	2.6	2.8	2.8	3.1	3.0	3.1	3.3	2.5	2.8	2.8	3.2	34.9
2002	2.7	2.5	2.6	2.7	2.8	2.6	2.8	2.8	2.4	2.6	2.6	3.1	32.1
2003	2.6	2.2	2.3	2.3	2.5	2.5	2.6	2.4	2.2	2.4	2.2	2.9	29.3
2004	2.4	2.0	2.3	2.3	2.3	2.4	2.5	2.5	2.2	2.2	2.3	3.0	28.3
2005	2.0	1.9	2.0	1.9	2.0	1.9	1.9	1.8	1.9	1.7	2.0	2.4	23.5

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

2001	437	408	432	429	460	470	458	490	379	446	446	486	5,340
2002	415	391	423	419	450	412	433	461	374	428	397	489	5,092
2003	398	347	384	369	395	396	418	377	347	372	343	440	4,583
2004	353	311	338	344	356	359	373	386	331	347	354	447	4,297
2005	302	287	312	299	328	311	318	306	310	285	338	387	3,784

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

2001	110.5	110.5	111.5	110.0	110.5	111.5	111.0	110.5	110.5	110.5	111.0	113.5	111.0
2002	111.5	113.5	111.5	111.5	111.0	111.5	113.5	111.5	112.5	110.0	113.0	114.5	112.0
2003	112.5	113.0	113.0	111.0	112.0	112.0	111.0	111.0	115.0	114.0	114.0	117.0	113.0
2004	115.0	116.5	115.5	114.5	114.5	116.0	116.0	116.5	116.5	117.0	116.5	118.5	116.0
2005	119.5	120.5	120.0	121.0	118.0	119.5	121.5	120.5	118.5	121.0	119.5		119.5

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

2001	114.5	114.5	114.5	113.0	114.0	114.5	115.0	114.0	114.5	114.0	114.5	117.5	114.5
2002	115.5	116.0	116.5	115.5	115.0	115.5	116.0	116.5	116.5	115.0	117.5	117.0	116.0
2003	116.0	117.0	117.5	117.0	116.5	116.0	117.0	117.0	118.0	118.0	117.5	119.0	117.0
2004	119.0	119.5	119.5	118.5	119.5	119.5	120.0	120.0	121.0	120.5	120.5	123.0	119.5
2005	123.0	124.0	124.0	124.0	124.0	125.5	125.0	125.5	124.5	125.0	124.0		124.0

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.

HOGS AND PIGS: Inventory and disposition, State of Hawaii, 2001-2005

Year	Inventory December 1 previous year	Pig crop	Inshipments ¹	Marketings ¹	Farm slaughter	Deaths	Inventory December 1
<i>1,000 head</i>							
2001	26	37	*	31	1	4	27
2002	27	32	*	30	1	4	24
2003	24	31	*	27	1	4	23
2004	23	31	*	27	1	4	22
2005	22	28	*	26	1	4	19

* = Less than 500 head.

¹ Excludes live hogs brought in for immediate slaughter.

2005 POULTRY AND EGG HIGHLIGHTS

Egg production for 2005 totaled 114.5 million eggs, 3 percent below the 118.5 million eggs produced during 2004. This was the lowest since 1960, the start of when records were kept. The average number of layers on hand during 2005 was 498,000, the lowest since 1960 and the 17th consecutive year of decline.

Cash receipts from the sale of eggs during 2005 was \$9.0 million, 16 percent less than 2004.

The total number of egg-type chickens on hand in Hawaii on December 1, 2005 was 547,000 birds, 9 percent below 2004. The 547,000 birds consisted of 486,000 layers and 61,000 non-laying pullets. The 486,000 layers were 4 percent less than a year ago.

CHICKENS: December 1 inventory by class, by county, 2001-2005

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

2001	659	373	181	554	50	55	*
2002	625	381	142	523	44	58	*
2003	600	357	129	486	67	47	*
2004	598	349	158	507	44	47	*
2005	547	369	117	486	25	36	*

County:

Hawaii/Kauai/Maui¹

2001	146	77	65	142	0	4	*
2002	130	89	37	126	0	4	*
2003	118	100	11	111	5	2	*
2004	131	78	48	126	5	0	*
2005	104	67	30	97	3	4	*

Honolulu

2001	513	296	116	412	50	51	*
2002	495	292	105	397	44	54	*
2003	482	257	118	375	62	45	*
2004	467	271	110	381	39	47	*
2005	443	302	87	389	22	32	*

* = 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 county, 2001-2005¹

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						
2001	75	588	220	129.4	89.4	9,637
2002	80	539	218	117.5	90.4	8,854
2003	80	507	231	117.2	96.2	9,396
2004	80	500	237	118.5	108.0	10,665
2005	80	498	230	114.5	94.1	8,979
County:						
Hawaii/Kauai/Maui⁵						
2001	60	148	222	32.9	108.5	2,974
2002	65	126	229	28.9	105.5	2,540
2003	65	116	251	29.1	107.5	2,607
2004	65	122	227	27.7	110.0	2,539
2005	65	112	220	24.8	110.0	2,274
Honolulu						
2001	15	440	219	96.5	82.9	6,663
2002	15	413	215	88.6	85.5	6,314
2003	15	391	225	88.1	92.5	6,789
2004	15	378	240	90.8	107.5	8,126
2005	15	386	232	89.7	89.5	6,705

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.

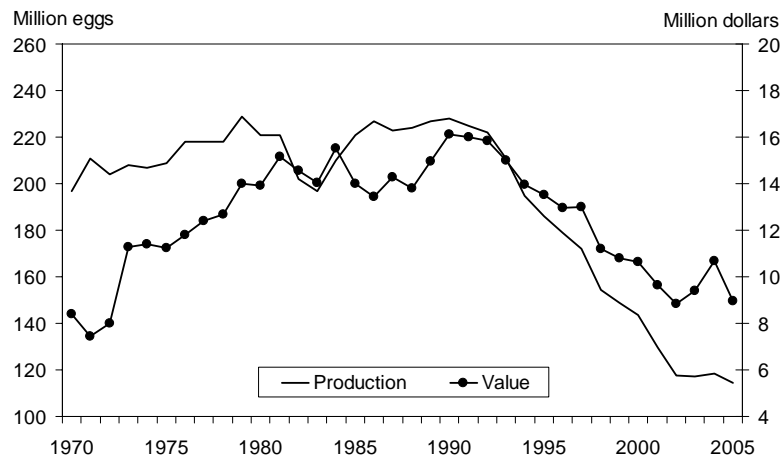
² Home consumption less than 0.5 million eggs included.

³ Equivalent delivered processing plant.

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

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

EGGS: Production and Value of Sales, State of Hawaii, 1970-2005



EGGS: Number of layers, production, and price, State of Hawaii, 2001-2005

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

2001	615	609	613	602	595	591	564	561	561	560	563	552	588
2002	547	538	543	545	524	532	540	538	537	537	534	532	539
2003	526	509	519	514	487	494	504	505	499	500	499	482	507
2004	492	501	504	505	502	504	495	497	501	505	512	512	500
2005	511	500	506	504	486	488	487	491	496	496	495		498

Egg production² – million eggs

2001	11.7	10.3	11.5	11.4	11.3	10.9	10.9	10.4	9.8	9.7	9.8	10.3	129.4
2002	10.0	9.0	10.3	10.1	9.9	9.6	10.0	9.6	9.1	9.8	9.8	10.0	117.5
2003	10.2	9.0	10.0	10.0	9.8	9.3	9.7	10.0	9.7	9.9	9.6	9.7	117.2
2004	9.7	9.3	10.5	10.3	10.2	9.7	10.0	10.0	9.5	9.9	9.7	10.1	118.5
2005	10.4	9.4	10.1	9.4	9.4	9.3	9.9	9.5	8.8	9.2	9.0		114.5

Average farm price³ – cents per dozen

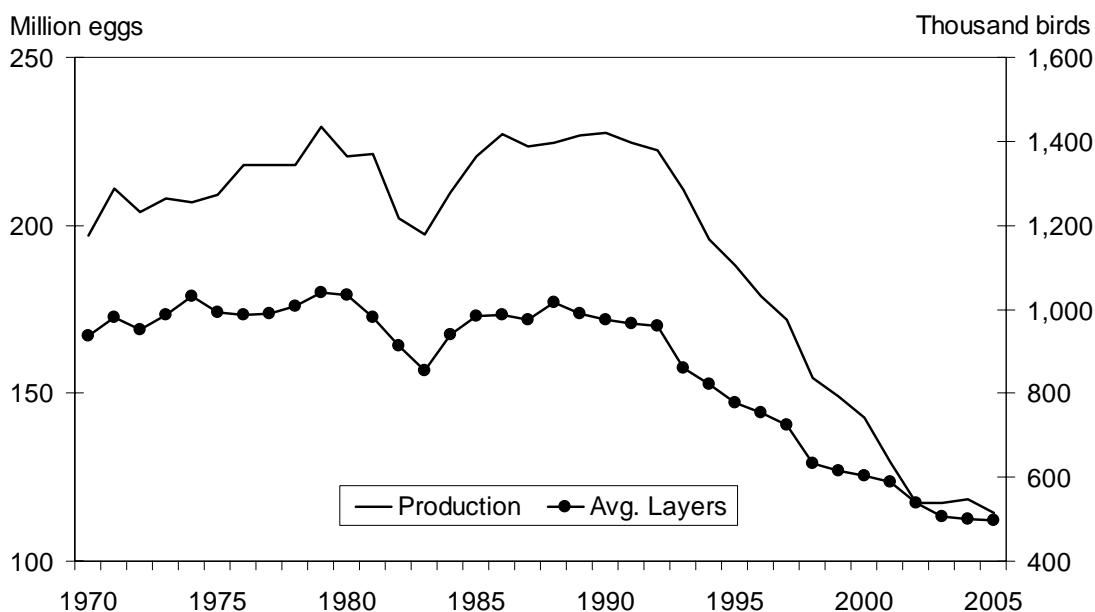
2001	89.0	89.0	89.5	88.5	88.5	89.5	89.5	90.0	90.0	90.5	91.0	91.0	89.4
2002	91.5	91.5	90.5	91.0	89.5	89.5	90.0	90.0	88.5	90.0	92.0	93.0	90.4
2003	94.0	94.5	95.5	97.5	98.5	97.5	97.0	97.5	94.5	96.0	99.5	101.5	96.2
2004	106.5	110.0	113.5	115.0	114.0	110.0	109.0	107.5	105.5	103.0	100.0	97.0	108.0
2005	99.5	98.0	94.0	94.0	88.5	88.5	91.5	89.5	87.0	102.5	98.5		94.1

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

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

³ Equivalent delivered processing plant.

CHICKENS: Production and Average Number of Layers, State of Hawaii, 1970-2005



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

Source: 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

Source: Census of Agriculture.

HONEY: Number of operations, colonies, honey and beeswax production, price, and value, State of Hawaii, 2001-2005

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>	
2001	30	8	87	696	6	87	233	606	14
2002	30	7	136	952	15	111	193	1,057	29
2003	29	7	114	798	11	145	182	1,157	20
2004	31	8	96	768	11	159	182	1,221	20
2005	34	9	131	1,179	10	134	182	1,580	18

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, 2002-2006

Year	All sheep and lambs	Breeding				Market			Lamb crop
		Total	Ewes 1 year +	Rams 1 year +	Replacement lambs	Total	Lambs	Sheep	
1,000 head									
2002	20	14	6	3	5	6	4	2	5
2003	20	13	6	3	4	7	4	3	5
2004	20	13	6	3	4	7	5	2	5
2005 ¹									
2006 ¹									

¹ Data not shown to avoid disclosure of individual operations.

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



LABOR

AGRICULTURAL LABOR: Workers on farms, annual and quarterly averages, State of Hawaii, 2001-2005 ¹

Year	Total farm employment			Hired workers by type of farm		
	Self-employed farm operators	Unpaid workers ²	Hired workers ³	Sugar	Pineapple	Other
2001	3,300	1,100	7,400	800	1,200	5,500
2002	⁴ 3,000	⁴ 1,100	7,500	900	1,300	5,400
2003	NA	NA	7,300	700	1,200	5,300
2004	NA	NA	7,300	700	1,200	5,400
2005	NA	NA	7,000	700	1,100	5,200
January	NA	NA	7,300	550	1,150	5,600
April	NA	NA	6,800	700	1,050	5,050
July	NA	NA	7,000	700	1,100	5,200
October	NA	NA	6,800	650	1,100	5,100

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 county, 2001-2005 ¹

Year	Self-employed farm operators	Unpaid workers ²	Hired workers	Year	Self-employed farm operators	Unpaid workers ²	Hired workers
County: Hawaii				Kauai			
2001	1,950	550	2,650	2001	350	150	650
2002	³ 1,700	³ 600	2,450	2002	³ 250	³ 100	750
2003	NA	NA	2,750	2003	NA	NA	750
2004	NA	NA	2,700	2004	NA	NA	650
2005	NA	NA	2,500	2005	NA	NA	700
Honolulu				Mauai			
2001	550	250	2,300	2001	500	150	1,800
2002	³ 550	³ 250	2,100	2002	³ 500	³ 150	2,250
2003	NA	NA	2,150	2003	NA	NA	1,650
2004	NA	NA	2,200	2004	NA	NA	1,800
2005	NA	NA	2,050	2005	NA	NA	1,700

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

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

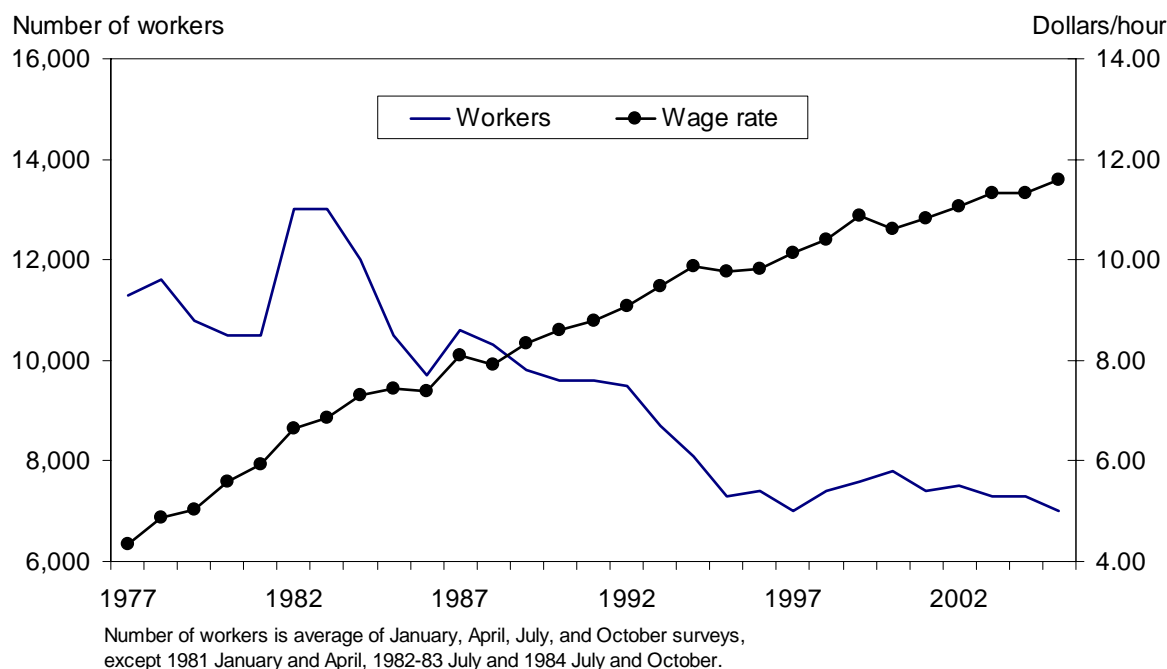
² Includes family members and others working 15 or more hours per week.

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, 2001-2005

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>				
2001	9.29	10.83	8.15	8.70
2002	9.42	11.07	8.26	9.66
2003	9.60	11.33	8.52	9.62
2004	9.75	11.34	8.99	10.29
2005	9.99	11.58	9.19	10.25
January	9.98	11.52	9.35	10.75
April	9.79	11.33	9.25	10.58
July	10.05	11.76	9.08	9.68
October	10.18	11.73	9.04	9.74

Hired Work Force and Average Wage Rate, State of Hawaii, 1977-2005



HAWAII AGRICULTURAL THEFT AND/OR VANDALISM

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

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

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

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

Theft by category, State of Hawaii, 2004

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

Vandalism by category, State of Hawaii, 2004

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

AQUACULTURE

AQUACULTURE: Number of operations, production, and value, by county, 2001-2005

AQUACULTURE: Number of operations, production, and value, by county, 2001-2005									
Year	Operations	Production		Value					
		Shellfish	Finfish	Shellfish	Finfish	Algae	Ornamental	Other ¹	Total
<i>Number</i>		<i>----- 1,000 pounds -----</i>		<i>----- 1,000 dollars -----</i>					
State									
2001	80	1,166	467	7,464	2,404	9,684	398	2,250	22,200
2002	70	1,378	542	8,212	2,683	10,505	664	3,116	25,180
2003	85	1,312	397	9,719	1,740	11,848	752	3,591	27,650
2004	100	956	484	8,326	1,975	12,602	520	4,677	28,100
2005	70	²	²	²	²	14,637	²	²	28,398
County:									
Hawaii									
2001	33	425	³	3,061	³	9,021	³	³	16,198
2002	26	269	³	3,050	³	9,627	³	³	17,329
2003	31	572	³	5,508	³	10,923	³	³	19,639
2004	39	450	³	5,593	³	11,702	³	³	21,211
2005	25	²	²	²	²	³	²	²	20,179
Honolulu/Kauai/Maui									
2001	47	741	³	4,403	³	663	³	³	6,002
2002	44	1,109	³	5,162	³	878	³	³	7,851
2003	54	740	³	4,211	³	925	³	³	8,011
2004	61	506	³	2,733	³	900	³	³	6,889
2005	45	²	²	²	²	³	²	²	8,219

¹ Includes seed stock, brood stock, and items not sold by weight.

² 2005 Census of Aquaculture breakout of categories was not available to avoid disclosure of individual operations with other states.

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

DEFINITION OF TERMS

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

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

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

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

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

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

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

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

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

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

SAMPLING METHODS AND ESTIMATION

The Hawaii Field Office of USDA, National Agricultural Statistics Service, 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 and summarized; 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 Field Office 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 example 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.

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 process 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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<u>Title and Description</u>	<u>Release Date</u>
CROPS	
AVOCADOS: Annual summary of acreage, yield, production, farm price, and value.....	May
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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
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GUAVAS: Annual summary of acreage, production, farm price, and value	June
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MACADAMIA NUTS:	
- Preliminary season estimates of acreage, yield, production, farm price, and value.....	January
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PAPAYAS: Monthly report of acreage, utilization, and farm price.....	Mid-month
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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: Annual summary of the State's agricultural sector.....	October

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Vegetables:	Pumpkin harvest, Aloun Farm, central Oahu, courtesy of Aloun Farm, page 48.
	Daikon, courtesy of the Market Development Branch, Hawaii Department of Agriculture, page 57.
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