2010 Farm Revenues up 7 Percent from Previous Year

Farm gate revenues for 2010 totaled $689.6 million compared to the revised 2009 level of $641.9 million. Compared to the previous year, 15 of the 20 top ranked commodities were higher including seed crops, sugarcane, coffee, cattle, macadamia nuts, bananas, eggs, milk, sweet potatoes, hogs, lettuce, anthuriums, head cabbage, potted dracaena, and taro.

The value of individually published diversified commodities rose 4 percent including a 5 percent increase for seed. The $247.2 million seed revenue is a new record as seed companies continue to expand their Hawaii based operations. Seed corn demand for ethanol production continues to be strong. Parchment coffee farm gate value increased 7 percent due to higher coffee prices received. Farm gate value for cattle and calves rose 14 percent due to higher farm gate prices. Published vegetables and melons rose 25 percent due to higher production and prices. Egg farm gate value rose slightly, and milk farm revenue rose by 17 percent which is attributed to higher milk production. Information for some agricultural commodities is suppressed to prevent disclosing individual operation information, but is included in the total revenue number.

Revenue declines include flowers and nursery products which fell 2 percent to $75.6 million from the previous year. The record high farm gate value was $108.7 million set in 2007. Growers commented on continued slower business due to the sluggish economy, crop losses to volcanic emissions, and drought as contributing factors to this decline. Aquaculture revenues declined 7 percent compared to 2009 and fruits declined by 11 percent due to lower production compared to the previous year.

The equivalent farm value of sugarcane (this does not include the processed value of raw sugar) was set at $69.8 million, up 58 percent from 2009. Sugarcane price increased 76 percent from last year and is the highest since 1980.

Farm level values shown in this publication are an important measure of production agriculture, but they do not truly reflect the total contribution of agriculture to the State and county economies. For the better understanding of the overall picture, refer to “Agriculture’s Contribution to Hawaii’s Economy 2005” – (CTAHR Economic Issue El 13, Jan 2008) a publication prepared jointly by the College of Tropical Agriculture and Human Resources, University of Hawaii at Manoa, and the Hawaii State Department of Agriculture.

Drought Conditions Prevail

January - March

Extreme drought conditions continued into the New Year with over 99 percent of the State rated abnormally dry or worse drought classifications according to the U.S. Drought Monitor. This drought level did not change or waiver until mid-March when rainfall brought some relief to windward slopes and coasts. However, drought conditions for the leeward coasts, especially on Hawaii Island deteriorated with extreme and exceptional drought ratings for the South Kohala and North Kona Districts. Voluntary and mandatory reductions were imposed on reservoir systems serving Agricultural parks operated by the Agricultural Resource Management (ARM) Division of the Hawaii State Department of Agriculture. Weather conditions were dominated by high winds and light precipitation. Additional amounts of irrigation water were required to maintain fruits and vegetables. Crops grown where irrigation water was not available suffered. Weight loss in some beef herds was noticeable due to short pasture forage, especially in leeward locations.

April - June

Heavy rainfall brought flash flood warnings in some areas in early April, but drought conditions continued to prevail. Vegetable planting schedules were delayed or modified due to dry conditions. Brisk winds continued to speed evaporation in pastures. Ranchers were concerned heading in to the normally dry season of the year. Livestock required feeding and water hauling continued to be necessary in most areas. Stronger trade winds did not spawn showers until the middle of June, but winds and hot temperatures negated most positive effects of received precipitation. A mandatory 30 percent reduction in use with water service limited to Mondays, Wednesdays, and Fridays during the day was imposed on the Waimanalo Irrigation System which is operated by the Hawaii State Department of Agriculture in June. A mandatory 20 percent reduction in use was implemented for Molokai Agricultural Park non-homesteaders in June.

July – September

U.S. Department of Agriculture Secretary, Tom Vilsack declared all counties to be Primary Natural Disaster Areas on July 21, 2010. Secretary Vilsack's declaration was made amid heavy losses incurred by farmers and ranchers since the beginning of the year in one of the most severe droughts Hawaii has experienced. Coffee harvest began with growers concerned about the prevailing dry conditions especially in the Kona coffee growing region. Some mature protea trees were lost due to drought conditions. Hawaii County pastures below 1,500 feet experienced heavy loss of pasture forage. Irrigation water restrictions remained in force for the Molokai (non-homesteaders) and Waimanalo agricultural park farmers.

October – December

In early October, beneficial rains fell in most areas. Pastures conditions stopped degrading but conditions varied by location. Record high temperatures were recorded with little rain during the latter portion of October as irrigation water restrictions continued to be in agricultural parks on Oahu and Molokai. Heavy rains fell on most windward and mountainous locations the final week of October. This wet weather pattern spilled into November as some farmers in areas of heavy rainfall mentioned concern about root rot if persistent rains continue. Some minor damage was reported from high winds. Some pastures showed some recovery from drought. Orchards benefited from increased showers and overall cooler temperatures. Supplemental feeding was still required by some cattle ranches. Cooler weather and wet weather patterns continued into December as pasture conditions continued to improve. Wet weather did not hinder vegetable growth or planting, cultivating, or harvesting activities. Heavy and soaking rains fell in December, but leeward slopes were rated in some stage of drought on December 21, 2010, by the U.S. Drought Monitor.

Source: National Weather Service, National Drought Mitigation Center, and Farm Service Agency.

WEATHER: Precipitation, Selected Stations, State of Hawaii, 2010

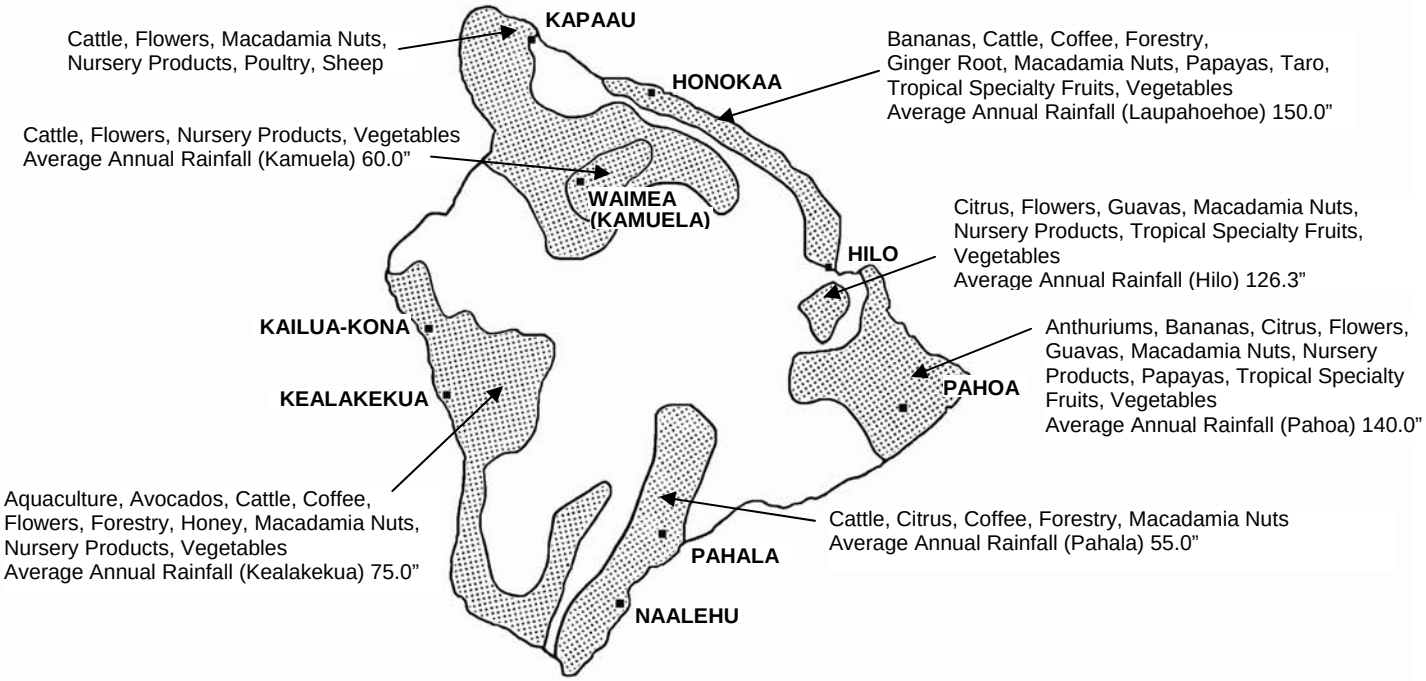
STATIONS	Year & normal	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual	% Annual normal
HAWAII COUNTY															
Hilo International Airport	Normal	9.7	8.9	14.4	12.5	8.1	7.4	10.7	9.8	9.1	9.6	15.6	10.5	126.3	
	2010	.94	1.38	8.65	7.00	2.71	5.26	3.98	4.31	2.75	8.29	10.82	7.13	63.22	50.1
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	
	2010	2.36	2.31	5.21	3.48	.71	1.40	1.66	2.03	1.45	2.06	2.17	1.71	26.55	44.3
Kealakekua (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	
	2010	1.42	.06	1.59	1.33	1.96	2.13	4.92	3.66	3.73	4.57	3.38	6.12	34.87	46.5
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	
	2010	3.91	7.06	16.49	9.94	1.98	2.64	2.58	3.89	2.34	5.95	10.54	5.18	72.50	48.3
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	
	2010	.57	1.08	1.03	.82	.56	.31	.48	.21	.44	1.82	2.62	7.51	17.45	31.7
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	
	2010	1.91	1.52	8.09	7.80	3.56	4.93	4.95	5.01	3.10	7.50	7.90	8.09	64.36	46.0
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	
	2010	--	--	--	3.54	2.05	.71	1.71	1.64	1.84	.88	2.35	9.49	--	--
Waianae (HI17)	Normal	3.8	2.3	2.5	1.6	.7	.3	.3	.7	.7	1.8	2.0	3.3	20.0	
	2010	--	.58	.72	.47	1.41	.13	.05	0	.27	.15	.62	10.67	--	--
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	
	2010	5.53	1.43	2.01	.43	.77	.24	.79	.67	1.79	.40	2.62	11.46	28.14	65.7
KAUAI COUNTY															
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	
	2010	--	--	--	8.53	2.00	--	--	--	--	2.21	--	--	--	
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	
	2010	2.25	.76	5.98	6.93	2.89	2.32	2.50	4.02	2.30	2.07	4.37	13.82	50.21	83.7
Wailua	Normal	7.5	6.5	8.1	7.5	6.2	4.3	6.1	6.3	5.3	7.0	7.4	7.8	80.0	
	2010	1.56	1.32	6.62	9.55	3.76	5.41	4.13	4.92	4.23	3.02	5.65	16.63	66.80	83.5
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	
	2010	1.74	1.16	7.72	6.75	2.37	1.48	4.93	4.07	3.22	--	--	7.20	--	--
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	
	2010	.90	1.08	2.35	.70	.18	.14	.14	.13	.16	.55	.36	4.02	10.71	48.0
Lahainaluna	Normal	4.4	2.7	2.4	1.7	.7	.2	.3	.6	.6	1.0	2.0	3.4	20.0	
	2010	.13	.10	.38	.05	.02	.02	.32	.11	.02	--	--	1.04	--	--
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	
	2010	4.92	1.55	2.74	.92	.02	.19	.48	.31	.33	.40	1.05	4.06	16.97	66.0

-- = No record. Data not recorded.

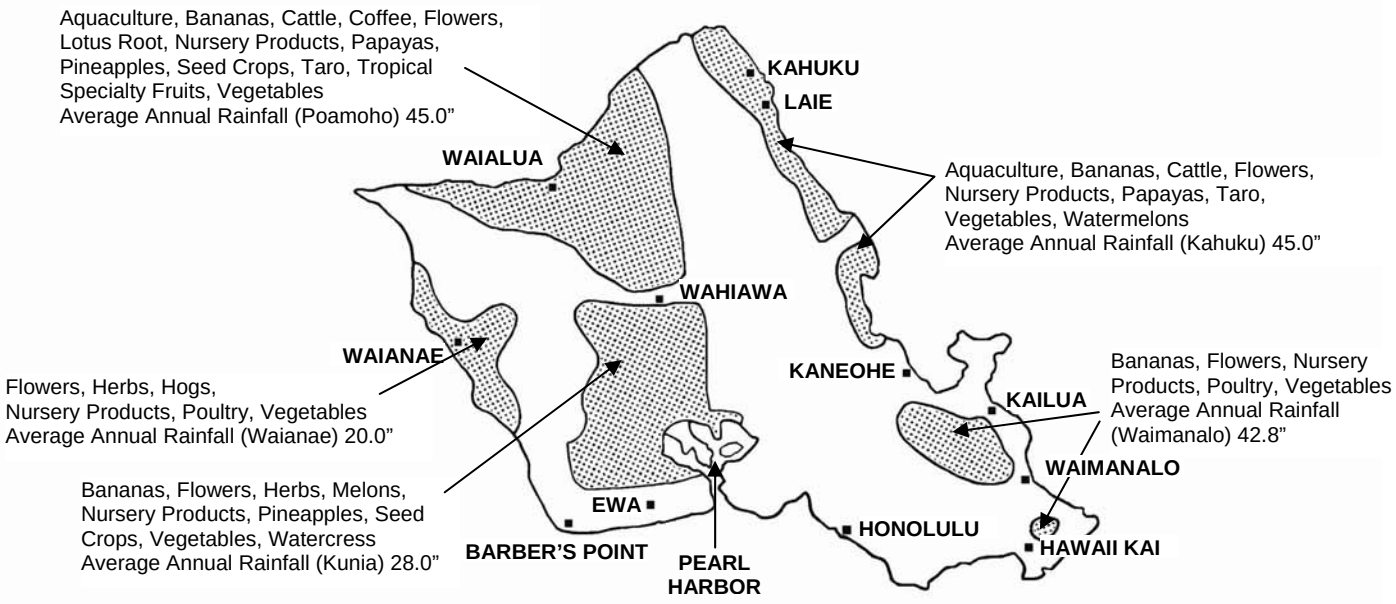
Source: U. S. Department of Commerce, National Oceanic and Atmospheric Administration. Most rainfall stations were selected from the National Weather Service's hydronet system of automated gauges, and those data have not been quality controlled to date, and therefore are not certified by the National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

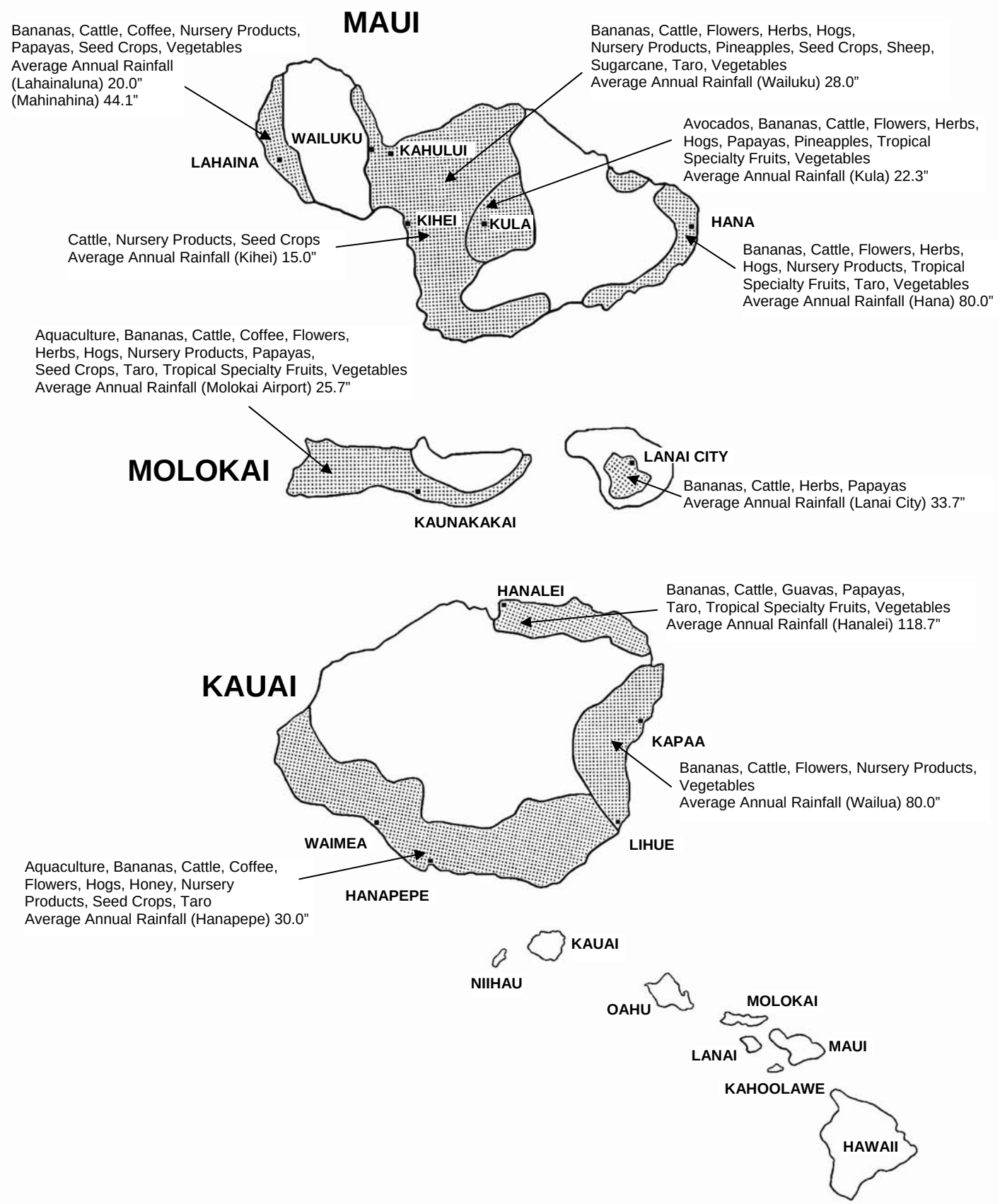
MAJOR AGRICULTURAL AREAS, STATE OF HAWAII, 2010

HAWAII



OAHU




MAUI
Bananas, Cattle, Coffee, Nursery Products, Papayas, Seed Crops, Vegetables
Average Annual Rainfall
(Lahainaluna) 20.0”
(Mahinahina) 44.1”
Bananas, Cattle, Flowers, Herbs, Hogs, Nursery Products, Pineapples, Seed Crops, Sheep, Sugarcane, Taro, Vegetables
Average Annual Rainfall (Wailuku) 28.0”
Avocados, Bananas, Cattle, Flowers, Herbs, Hogs, Papayas, Pineapples, Tropical Specialty Fruits, Vegetables
Average Annual Rainfall (Kula) 22.3”
WAILUKU
KAHULUI
LAHAINA
KIHEI
KULA
HANA
Cattle, Nursery Products, Seed Crops
Average Annual Rainfall (Kihei) 15.0”
Bananas, Cattle, Flowers, Herbs, Hogs, Nursery Products, Tropical Specialty Fruits, Taro, Vegetables
Average Annual Rainfall (Hana) 80.0”
Aquaculture, Bananas, Cattle, Coffee, Flowers, Herbs, Hogs, Nursery Products, Papayas, Seed Crops, Taro, Tropical Specialty Fruits, Vegetables
Average Annual Rainfall (Molokai Airport) 25.7”
MOLOKAI
LANAI CITY
Bananas, Cattle, Herbs, Papayas
Average Annual Rainfall (Lanai City) 33.7”
KAUNAKAKAI
HANALEI
Bananas, Cattle, Guavas, Papayas, Taro, Tropical Specialty Fruits, Vegetables
Average Annual Rainfall (Hanalei) 118.7”
KAUAI
KAPAA
Bananas, Cattle, Flowers, Nursery Products, Vegetables
Average Annual Rainfall (Wailua) 80.0”
WAIMEA
LIHUE
Aquaculture, Bananas, Cattle, Coffee, Flowers, Hogs, Honey, Nursery Products, Seed Crops, Taro
Average Annual Rainfall (Hanapepe) 30.0”
HANAPEPE
KAUAI
NIIHAU
OAHU
MOLOKAI
LANAI
MAUI
KAHOOLAWE
HAWAII

Top 20 Commodities, State of Hawaii, 2009-2010 [1]

Commodity [2]	Rank 2009	Rank 2010	Value of production 2009	Value of production 2010
	--- Number ---		--- 1,000 dollars ---	
Seed crops	1	**1**	236,410	**247,220**
Sugarcane (unprocessed)	2	**2**	44,200	**69,800**
Coffee	3	**3**	31,320	**33,440**
Cattle	5	**4**	28,945	**32,985**
Macadamia nuts	4	**5**	29,400	**30,000**
Algae	6	**6**	16,995	**16,725**
Papayas	7	**7**	14,186	**11,123**
Bananas	8	**8**	10,175	**10,680**
Eggs	9	**9**	8,759	**8,760**
Milk	10	**10**	7,491	**8,750**
Potatoes, sweet	12	**11**	5,413	**6,510**
Basil	11	**12**	6,810	**5,540**
Palms, potted	13	**13**	5,126	**3,755**
Hogs	16	**14**	2,996	**3,661**
Lettuce	32	**15**	748	**3,629**
Dendrobiums, potted	14	**16**	3,577	**3,556**
Anthuriums, cut	15	**17**	3,120	**3,397**
Cabbage, head	17	**18**	2,976	**3,107**
Dracaena, potted	18	**19**	2,516	**2,683**
Taro	19	**20**	2,440	**2,516**

[1] Cucumbers, pineapples, sod, tomatoes, and watermelons not ranked due to disclosure of individual operations.
[2] Floriculture categories include only growers with total sales of $10,000 or more.

Farm Values, State of Hawaii, 1991-2010

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Diversified agriculture [1]	Total [2]
	1,000 dollars			
1991	174,900	107,775	268,707	551,382
1992	153,700	102,100	264,427	520,227
1993	163,000	79,850	271,094	513,944
1994	160,100	78,890	273,826	512,816
1995	127,700	87,360	291,632	506,692
1996	108,100	95,914	307,329	511,343
1997	85,500	91,721	327,484	504,705
1998	87,300	92,776	329,886	509,962
1999	86,800	101,448	342,846	531,094
2000	62,200	101,530	358,170	521,900
2001	57,800	96,337	370,241	524,378
2002	64,300	100,616	374,602	539,518
2003	64,400	101,470	382,253	548,123
2004	61,500	83,104	407,453	552,057
2005	58,900	79,288	444,597	582,785
2006	50,200	73,652	455,738	579,590
2007	47,600	[3]	[3]	577,999
2008	44,200	[3]	[3]	605,570
2009	44,200	[3]	[3]	641,850
2010	**69,800**	**[3]**	**[3]**	**689,633**

[1] Aquaculture included beginning 1993.
[2] Includes all agricultural commodities.
[3] Pineapples and diversified agriculture not shown separately to avoid disclosure of individual operations, but included in total farm value.

Selected Diversified Agriculture Ranked by Value, State of Hawaii, 2009-2010

Commodity	Rank 2009	Rank 2010	Value of production 2009	Value of production 2010	Year-to-year percent change	Percent of diversified agriculture [1] 2009	Percent of diversified agriculture [1] 2010
	--- Number ---		----- 1,000 dollars -----		---------- Percent ----------		
Seed crops	1	**1**	236,410	**247,220**	+5	46.4	**46.8**
Flowers and nursery products	2	**2**	76,814	**75,610**	-2	15.1	**14.3**
Coffee	4	**3**	31,320	**33,440**	+7	6.1	**6.3**
Cattle	6	**4**	28,945	**32,985**	+14	5.7	**6.2**
Macadamia nuts	5	**5**	29,400	**30,000**	+2	5.8	**5.7**
Aquaculture	3	**6**	32,330	**29,970**	-7	6.3	**5.7**
Vegetables and melons [2]	8	**7**	19,930	**24,939**	+25	3.9	**4.7**
Fruits (excluding pineapples)	7	**8**	25,373	**22,531**	-11	5.0	**4.3**
Herbs	9	**9**	9,897	**10,806**	+9	1.9	**2.0**
Eggs	10	**10**	8,759	**8,760**	0	1.7	**1.7**
Milk	11	**11**	7,491	**8,750**	+17	1.5	**1.6**
Hogs	12	**12**	2,996	**3,661**	+22	.6	**.7**
Total			[3] 509,665	**[3] 528,672**		100.0	**100.0**

[1] Percentages are of displayed items only. [2] Beginning 2009, excludes ginger root and herbs. [3] Includes selected displayed commodities; excludes non-published commodities to avoid disclosure of individual operations but included in total farm value.

SUMMARY: Acreage in Crop and Total Farm Acreage, by County, 2006-2010

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]								
2006	42.1	12.6	5.5	6.1	8.2	17.0	9.2	[7] 1,160
2007	39.3	[8]	3.3	6.5	7.8	17.0	20.5	1,120
2008	39.7	[8]	2.1	4.1	7.8	17.0	20.7	1,110
2009	39.6	[8]	2.1	3.9	8.0	17.0	20.9	1,110
2010	**34.5**	**[8]**	**2.7**	**4.1**	**8.0**	**17.0**	**21.1**	**1,110**
County:								
Hawaii								
2006	0	*	1.1	3.8	3.8	[9]	2.9	820
2007	0	[8]	.9	4.3	3.8	[9]	3.2	680
2008	0	[8]	.8	3.0	3.8	[9]	3.1	670
2009	0	[8]	[10]	[10]	[9]	[9]	[10]	[10]
2010	**0**	**[8]**	[10]	[10]	**[9]**	**[9]**	[10]	[10]
Honolulu								
2006	0	[9]	3.5	.9	[11] 4.4	[9]	2.7	70
2007	0	[8]	1.6	.9	[11] 4.0	[9]	8.1	60
2008	0	[8]	.9	.6	[11] 4.0	[9]	9.5	60
2009	0	[8]	[10]	[10]	[9]	[9]	[10]	[10]
2010	**0**	**[8]**	[10]	[10]	**[9]**	**[9]**	[10]	[10]
Kauai								
2006	7.2	*	.1	.8	[11]	[9]	1.9	150
2007	6.9	[8]	.1	.7	[11]	[9]	2.5	150
2008	5.2	[8]	*	.2	[11]	[9]	2.3	150
2009	5.2	[8]	[10]	[10]	[9]	[9]	[10]	[10]
2010	**0**	**[8]**	[10]	[10]	**[9]**	**[9]**	[10]	[10]
Maui								
2006	34.9	[9]	.8	.6	[11]	[9]	1.7	260
2007	32.4	[8]	.7	.6	[11]	[9]	6.7	230
2008	34.5	[8]	.4	.3	[11]	[9]	5.8	230
2009	34.4	[8]	[10]	[10]	[9]	[9]	[10]	[10]
2010	**34.5**	**[8]**	[10]	[10]	**[9]**	**[9]**	[10]	[10]

* Less than 50 acres
[1] Land used for pineapple.
[2] Harvested acreage.
[3] Includes ginger root and herbs, 2006.
[4] Beginning 2007, includes non-published vegetable commodities, and ginger root. Includes pineapple, taro, seed crops, 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 with “All other crops”.
[9] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.
[10] County estimates not published due to staff reduction-in-force but combined and included in the State total.
[11] Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

SUMMARY: Number of Crop Farms, by County, 2006-2010

Year	Sugarcane	Pineapples [1]	Vegetables and melons [2]	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Taro	Flowers and nursery products
State								
2006	2	30	610	[3] 1,250	820	570	105	930
2007	2	40	650	1,300	830	570	105	1,060
2008	2	40	540	[3] 1,500	830	570	105	1,025
2009	2	40	540	1,600	830	570	110	1,010
2010	**1**	**40**	**540**	**1,600**	**830**	**570**	**115**	**970**
County:								
Hawaii								
2006	0	15	226	670	775	520	25	415
2007	0	18	230	690	790	525	25	475
2008	0	18	210	880	790	525	25	465
2009	0	[4]	[4]	[4]	[5]	[4]	[4]	[4]
2010	**0**	**[4]**	**[4]**	**[4]**	**[5]**	**[4]**	**[4]**	**[4]**
Honolulu								
2006	0	2	215	155	3	10	15	250
2007	0	1	230	160	3	5	15	285
2008	0	1	180	155	3	5	20	270
2009	0	[4]	[4]	[4]	[5]	[4]	[4]	[4]
2010	**0**	**[4]**	**[4]**	**[4]**	**[5]**	**[4]**	**[4]**	**[4]**
Kauai								
2006	1	8	63	175	10	20	45	75
2007	1	12	70	190	7	20	45	90
2008	1	12	48	195	5	20	45	90
2009	1	[4]	[4]	[4]	[5]	[4]	[4]	[4]
2010	**0**	**[4]**	**[4]**	**[4]**	**[5]**	**[4]**	**[4]**	**[4]**
Maui								
2006	1	5	106	250	32	20	20	190
2007	1	9	120	260	30	20	20	210
2008	1	9	102	270	32	20	15	200
2009	1	[4]	[4]	[4]	[5]	[4]	[4]	[4]
2010	**1**	**[4]**	**[4]**	**[4]**	**[5]**	**[4]**	**[4]**	**[4]**

[1] Includes specialty pineapple.
[2] In 2003-2006, includes ginger root, herbs, noni, kava (`awa), and others. Beginning 2007, ginger root, herbs, noni, kava (‘awa) and others combined and included in the Total (non-duplicated).
[3] Revised.
[4] County estimates not published due to staff reduction-in-force but combined and included in the State total.
[5] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Number of Livestock Operations and Total Number of Farms, by County, 2006-2010

Year	Cattle [1]	Hogs	Milk	Eggs	Honey [2]	Total (non-duplicated) [3]
State						
2006	800	230	30	80	35	5,500
2007	1,100	230	15	80	40	7,500
2008	1,000	230	15	100	35	7,500
2009	1,000	230	15	100	35	7,500
2010	**1,000**	**230**	**15**	**100**	**35**	**7,500**
County:						
Hawaii						
2006	470	70	15	50	17	3,250
2007	730	70	6	50	18	4,650
2008	680	70	6	65	18	4,650
2009 [4]						
2010 [4]						
Honolulu						
2006	50	70	6	15	12	800
2007	60	70	3	15	14	950
2008	50	70	3	15	9	950
2009 [4]						
2010 [4]						
Kauai						
2006	120	30	4	5	4	600
2007	130	30	1	5	5	750
2008	120	30	1	5	5	750
2009 [4]						
2010 [4]						
Maui						
2006	160	60	5	10	2	850
2007	180	60	5	10	3	1,150
2008	150	60	5	15	3	1,150
2009 [4]						
2010 [4]						

[1] Includes beef, dairy, and dairy replacement operations.
[2] Number of operations with 5 or more colonies.
[3] Based on the definition of a farm as a place with estimated (or expected) annual sales of agricultural products of at least $1,000. Total includes farms having commodities that are not listed separately; e.g. aquaculture, goats, seed crops, and sheep. Prior to 2007, the total unduplicated farm number was not adjusted for coverage.
[4] County estimates not published due to staff reduction-in-force but combined and included in the State total.

SUMMARY: Value of Crop Sales, by County, 2006-2010

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables, ginger root, herbs, and melons [1]	Fruits (excluding pineapples)	Coffee (parchment)
			1,000 dollars		
State [4]					
2006	50,200	73,652	73,038	27,215	31,820
2007	47,600	[5]	34,395	30,592	31,875
2008	44,200	[5]	21,898	23,680	29,580
2009	44,200	[5]	19,930	25,373	31,320
2010	**69,800**	**[5]**	**24,939**	**22,531**	**33,440**
County:					
Hawaii					
2006	0	[6]	18,630	18,584	25,600
2007	0	[5]	9,332	22,837	25,350
2008	0	[5]	10,076	18,944	21,730
2009	0	[5]	[7]	[7]	[6]
2010	**0**	**[5]**	**[7]**	**[7]**	**[6]**
Honolulu					
2006	0	[6]	41,812	4,961	[8] 6,220
2007	0	[5]	16,334	4,961	[8] 6,525
2008	0	[5]	7,139	3,457	[8] 7,850
2009	0	[5]	[7]	[7]	[6]
2010	**0**	**[5]**	**[7]**	**[7]**	**[6]**
Kauai					
2006	9,500	[6]	1,543	1,717	[8]
2007	9,800	[5]	2,184	1,060	[8]
2008	9,700	[5]	1,037	512	[8]
2009	14,200	[5]	[7]	[7]	[6]
2010	**0**	**[5]**	**[7]**	**[7]**	**[6]**
Maui					
2006	40,700	[6]	11,053	1,953	[8]
2007	37,800	[5]	6,545	1,734	[8]
2008	34,500	[5]	3,646	767	[8]
2009	30,000	[5]	[7]	[7]	[6]
2010	**69,800**	**[5]**	**[7]**	**[7]**	**[6]**

See footnotes at end of table.

Continued

SUMMARY: Value of Crop Sales, by County, 2006-2010 -- Continued

Year	Macadami nuts (in-shell)	Taro	Seed crops	Flowers and nursery products [2]	Total crops [3]
			1,000 dollars		
State [4]					
2006	38,860	2,565	103,040	98,725	499,684
2007	24,600	2,360	140,710	108,710	498,338
2008	33,500	2,666	176,990	94,662	522,139
2009	29,400	2,440	236,410	76,814	553,862
2010	**30,000**	**2,516**	**247,220**	**75,610**	**597,000**
County:					
Hawaii					
2006	[6]	180	[6]	50,527	152,302
2007	[6]	173	[6]	51,192	140,895
2008	[6]	127	[6]	41,238	137,086
2009 [7]					
2010 [7]					
Honolulu					
2006	[6]	[9] 570	[6]	33,438	146,013
2007	[6]	[9] 563	[6]	40,625	140,811
2008	[6]	[9] 487	[6]	35,362	166,679
2009 [7]					
2010 [7]					
Kauai					
2006	[6]	1,815	[6]	2,937	60,352
2007	[6]	1,624	[6]	3,556	65,989
2008	[6]	2,052	[6]	3,949	74,646
2009 [7]					
2010 [7]					
Maui					
2006	[6]	[9]	[6]	11,823	141,017
2007	[6]	[9]	[6]	13,337	150,643
2008	[6]	[9]	[6]	14,113	143,728
2009 [7]					
2010 [7]					

[1] Includes noni, kava (`awa), and others. Beginning 2007, non-published commodities not included to avoid disclosure of individual operations but combined and included in total crop value.
[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 products' 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 total crop value.
[6] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.
[7] County estimates not published due to staff reduction-in-force but combined and included in the State total.
[8] Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.
[9] Maui combined with Honolulu to avoid disclosure of individual operations.

SUMMARY: Value of Livestock Sales, Total Value of Crop, Livestock Sales, Aquaculture, and Government Payments, by Counties, 2006-2010

Year	Cattle [1]	Hogs [1]	Milk	Eggs	Aquaculture	Total livestock and aquaculture [2]	Total crops, livestock, and aquaculture	Government payments [3]
					1,000 dollars			
State [4]								
2006	26,452	4,158	14,508	8,192	21,257	79,906	579,590	3,796
2007	26,196	3,682	9,673	7,428	25,110	79,661	577,999	6,133
2008	24,305	3,359	5,460	8,678	34,650	83,431	605,570	8,435
2009	28,945	2,996	7,491	8,759	32,330	87,988	641,850	13,437
2010	**32,985**	**3,661**	**8,750**	**8,760**	**29,970**	**92,633**	**689,633**	**16,175**
County:								
Hawaii								
2006	19,809	256	[5]	[5]	17,470	48,345	200,647	NA
2007	19,676	185	[5]	[5]	20,013	52,690	193,585	NA
2008	16,493	171	[5]	[5]	27,836	56,275	193,361	NA
2009 [6]								
2010 [6]								
Honolulu								
2006	1,515	2,371	[5]	[5]	[7] 3,787	21,013	167,026	NA
2007	942	1,974	[5]	[5]	[7] 5,097	17,788	158,599	NA
2008	358	1,860	[5]	[5]	[7] 6,814	16,876	183,555	NA
2009 [6]								
2010 [6]								
Kauai								
2006	1,725	611	[5]	[5]	[7]	4,299	64,651	NA
2007	1,318	638	[5]	[5]	[7]	3,098	69,087	NA
2008	1,959	578	[5]	[5]	[7]	3,269	77,915	NA
2009 [6]								
2010 [6]								
Maui								
2006	3,403	920	[5]	[5]	[7]	6,249	147,266	NA
2007	4,260	885	[5]	[5]	[7]	6,085	156,728	NA
2008	5,495	750	[5]	[5]	[7]	7,011	150,739	NA
2009 [6]								
2010 [6]								

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. Source: Economic Research Service, U.S. Department of Agriculture.
[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.
[6] County estimates not published due to staff reduction-in-force but combined and included in the State total.
[7] Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

FOOD: U.S. Expenditures by Families and Individuals, Selected Years, 1935-2010 [1]

Year	Disposable personal income	Expenditures for food					
		At home [2]		Away from home [3]		Total [4]	
	Billion dollars	*Billion dollars*	*Percent*	*Billion dollars*	*Percent*	*Billion dollars*	*Percent*
1935	59.3	12.1	20.4	1.8	3.0	13.9	23.4
1940	76.8	13.5	17.6	2.4	3.1	15.9	20.7
1950	210.1	35.7	17.0	7.6	3.6	43.3	20.6
1960	334.9	50.3	15.0	11.8	3.5	62.2	18.6
1970	645.7	73.7	11.4	25.1	3.9	98.9	15.3
1980	1,639.8	170.8	10.4	81.1	4.9	251.9	15.4
1981	1,824.3	180.0	9.9	91.1	5.0	271.1	14.9
1982	1,945.3	189.3	9.7	99.5	5.1	288.8	14.8
1983	2,104.0	198.3	9.4	109.0	5.2	307.3	14.6
1984	2,323.1	211.1	9.1	116.7	5.0	327.8	14.1
1985	2,483.4	221.1	8.9	123.3	5.0	344.5	13.9
1986	2,645.3	229.8	8.7	131.8	5.0	361.7	13.7
1987	2,915.0	242.6	8.3	141.5	4.9	384.1	13.2
1988	3,164.6	257.8	8.1	152.5	4.8	410.3	13.0
1989	3,393.6	275.6	8.1	160.2	4.7	435.7	12.8
1990	3,606.6	297.2	8.2	171.7	4.8	468.8	13.0
1991	3,719.3	307.9	8.3	180.5	4.9	488.4	13.1
1992	3,935.1	299.7	7.6	185.9	4.7	485.6	12.3
1993	4,040.3	307.1	7.6	199.8	4.9	506.9	12.5
1994	4,234.7	318.4	7.5	209.9	5.0	528.2	12.5
1995	4,471.4	324.1	7.2	219.1	4.9	543.2	12.1
1996	4,734.0	338.2	7.1	225.8	4.8	564.0	11.9
1997	5,013.1	363.2	7.2	239.1	4.8	602.3	12.0
1998	5,366.1	374.6	7.0	251.5	4.7	626.1	11.7
1999	5,601.4	393.4	7.0	263.3	4.7	656.6	11.7
2000	6,065.7	412.4	6.8	282.9	4.7	695.3	11.5
2001	6,276.7	432.8	6.9	292.2	4.7	725.0	11.6
2002	6,526.3	450.8	6.9	305.3	4.7	756.1	11.6
2003	6,763.3	463.2	6.8	323.0	4.8	786.2	11.6
2004	7,161.9	478.9	6.7	345.2	4.8	824.2	11.5
2005	7,446.2	500.2	6.7	367.4	4.9	867.5	11.7
2006	7,978.4	517.5	6.5	390.5	4.9	908.0	11.4
2007	8,352.5	544.9	6.5	411.1	4.9	956.0	11.4
2008	8,719.7	568.0	6.5	421.5	4.8	989.5	11.3
2009	8,529.2	549.5	6.4	418.9	4.9	968.4	11.4
2010	**8,678.6**	**559.0**	**6.4**	**432.7**	**5.0**	**991.7**	**11.4**

[1] Revised. Disposable personal money income = disposable personal income – food produced and consumed on farms, government transfer payments payments to persons (including food stamps and medical care), and supplements to wages and salaries (including employers' contributions for social security, medicare and medical insurance, and retirement, and meals furnished to employees).
[2] Food-at-home includes cash 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), but excludes government-donated foods.
[3] Food-away-from-home includes meals and snacks purchased by families and individuals and food furnished to employees, but excludes food paid for by government and business, such as donated foods to schools, meals in prisons and other institutions, and expense-account meals.
[4] Total may not add due to rounding.
Source: Economic Research Service, USDA.

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 dozs.	2,532	1980	216	1959	1959
Price [2]	$/doz.	9.09	1997	.71	1967	1959
Avocados						
Harvested	Acres	370	2009	90	1975	1946
Production	1,000 lbs.	1,600	1982	400	1996	1946
Price [2]	¢/lb.	77.0	2010	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.	60.0	2010	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.	34.0	2009	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 [3]						
Harvested	Acres	360	2001	11	1974	1946
Production	1,000 lbs.	18,000	2001	352	1974	1946
Price [2]	¢/lb.	160.0	2008	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.	16.9	2010	3.1	1956	1955
Macadamia nuts						
Harvested	Acres	19,300	1995	830	1953	1946
Production *(net, wet-in-shell)*	1,000 lbs.	58,000	2006	630	1946	1946
Price [2] *(net, wet-in-shell)*	¢/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 for Selected Items, State of Hawaii -- Continued

Item	Unit	Record high		Record low		Year estimate started
		Quantity	Year [1]	Quantity	Year [1]	
Sugar [4]						
Harvested	Acres	145,000	1933	15,500	2010	1909
Yield/acre (sugar)	Tons/acre	13.15	2003	4.81	1910	1909
Production (raw sugar)	1,000 tons	1,234	1966	172	2010	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	3,900	2010	1946
Price [2]	¢/lb.	64.5	2010	3.1	1949	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.	81.10	2010	12.30	1946	1946
Hogs and pigs						
Dec. 1 inventory	Head	72,000	1965	12,500	2010	1960
Production (live weight)	1,000 lbs.	13,159	1978	3,096	2009	1960
Price [2]	$/cwt.	97.60	2010	29.50	1964	1960
Milk						
Marketings	Million lbs.	157.1	1988	17.9	2008	1946
Production per cow	lbs./cow	14,667	2002	8,750	1960	1960
Price [2]	$/cwt.	35.50	2009	6.75	1946	1946
Eggs						
Layers Dec. 1	Birds	1,037,000	1974	302,000	1950	1950
Production	Million eggs	229.3	1979	69.5	2010	1958
Price [2]	¢/doz.	151.0	2010	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] Beginning 2009 data series discontinued.
[4] Primary data source, Hawaii Agricultural Research Center.

AGRICULTURE'S CONTRIBUTIONS TO HAWAII'S ECONOMY, 2005

This sequel to two previous CTAHR publications, EI-2 (2000) and EI-3 (2002), provides an update to the estimates of agriculture's contribution to Hawai`i's economy. As mentioned in the earlier publications, estimates of agriculture's contributions vary depending on what is defined as "agriculture" and on the methodology used to develop those estimates. Agriculture as defined in this current publication uses the latest industry classification based on the North American Industry Classification System (NAICS) including crop and animal production; forestry, fishing and related activities; and food (including beverage and tobacco) product manufacturing.

The most comprehensive measure of the contribution of an industry is the value added or industry's gross domestic product[1] (GDP) as it avoids possible double-counting. The inclusion of other economic yardsticks such as employment, labor income and sales value provides a fuller picture of the performance of an industry.

Industry sales value is probably the most common measure of economic activities. For example, the Hawaii Department of Agriculture reports routinely the farmgate values of production agriculture. Despite its double counting problem, sales value measures the size of economic transactions of an industry based on which general excise and use taxes are generally levied.

Employment (number of full- and part-time wage-and-salary plus proprietors' jobs) provides another good indicator for measuring the contribution of an industry to the economy. Labor income (earnings), which primarily consists of the income received by persons from participation in production, provides yet another measure of an industry's contribution to the economy.

Against this background, the purpose of this publication is to summarize and compare the four measures described above – value-added or GDP, employment, labor income and sales value – in assessing the contribution of agriculture to Hawaii's economy for the years 1997, 2002 and 2005.

Agriculture's contribution to GDP

Hawaii's overall economy as measured by total GDP increased at an annual rate of 3.0% from 1997 to 2002 but has since grown quite rapidly at an annual rate of 8.0%. Agriculture GDP on the other hand reveals an opposite trend, growing at an annual rate of 2.8% from $594 million in 1997 to $682 million in 2002 but since then decreasing at an annual rate of 0.9% to $664 million in 2005. While farm production was relatively stable throughout the period 1997-2005, food product manufacturing steadily increased and forestry, fishing and related activities decreased quite rapidly. For the entire period, agriculture increased slightly at an average annual rate of 1.4%, while the overall economy grew at the faster rate of 4.8% per year. Hawaii seems to be following the national trend where agriculture's growth falls behind the overall growth of the economy.

Agriculture's contribution to employment

Total employment in the State increased at an annual rate of 1.6% from 740,028 jobs in 1997 to 838,740 jobs in 2005. However, total employment in agriculture decreased at an annual rate of 1.3% from 25,809 jobs in 1997 to 23,200 jobs in 2005. The decrease can be attributed primarily to decreases in the forestry, fishing and related activities sector, and to a lesser extent the food product manufacturing sector.

Agriculture's contribution to labor income

The trends of labor income for the economy, farm production, forestry, fishing and related activities, and food product manufacturing closely follow the corresponding employment trends. The share of agriculture labor income to total labor income declined from 2.1% in 1997 to 1.5% in 2005. Thus, the share of labor income for agriculture would tend to be lower than its employment share, reflecting the lower income of agricultural jobs.

Agriculture sales

Total agriculture sales (including farm production, forestry, fishing and related activities, and food product manufacturing) increased from $1,643 million in 1997 to $1,836 million in 2002 and further increased slightly to $1,900 in 2005. The share of agriculture sales as compared to the total Hawaii sales decreased slightly from 2.8% in 1997 to 2.6% in 2002 and further decreased in 2005 to 2.1%. This is similar to the GDP trend, since agricultural sales have been increasing at a slower rate than total sales of the economy.

To summarize, in 2005, agriculture contributed to 2.1% of total Hawaii sales, 1.2% of GDP, 2.8% of employment, and 1.5% of labor income. The complete publication, including an analysis on the total economic contributions with distribution margins is available at http://www.ctahr.hawaii.edu/oc/freepubs/pdf/EI-13.pdf

[1] GDP by industry for each state replaces the former GSP (Gross State Product) by industry reported by the U.S. Bureau of Economic Analysis.

Source: PingSun Leung, UH-CTAHR Department of Molecular Biosciences & Bioengineering, and Matthew K. Loke, Hawaii Department of Agriculture, Agricultural Development Division.

FARM FINANCIAL INDICATORS: Value Added to the Hawaii Economy by the Agricultural Sector Via the Production of Goods and Services, 2006-2010 [1]

Item [2]	2006	2007	2008	2009	2010
			1,000 dollars		
Value of crop production	513,670	514,224	542,719	561,316	**558,514**
Fruits and tree nuts	97,894	87,069	91,850	91,183	**83,296**
Vegetables	147,212	113,797	113,990	102,555	**101,926**
All other crops	267,340	312,019	335,276	366,003	**371,521**
Home consumption	1,224	1,339	1,603	1,575	**1,771**
Value of inventory adjustment [3]	0	0	0	0	**0**
Value of livestock production	65,721	64,849	66,312	71,936	**71,898**
Meat animals	30,610	29,878	27,664	31,941	**36,647**
Dairy products	14,508	9,673	5,460	7,491	**8,750**
Poultry and eggs	8,681	7,902	8,797	8,854	**8,855**
Miscellaneous livestock	14,253	21,339	25,817	22,770	**23,756**
Home consumption	167	183	186	229	**219**
Value of inventory adjustment [3]	-2,498	-4,126	-1,612	651	**-6,329**
Revenues from services and forestry	71,777	72,405	91,358	77,836	**84,354**
Machine hire and customwork	9,878	8,900	10,041	13,374	**12,686**
Forest products sold	400	400	400	400	**400**
Other farm income	25,077	30,050	43,011	24,327	**30,425**
Gross imputed rental value of farm dwellings	36,422	33,055	37,906	39,735	**40,843**
Value of agricultural sector production	651,168	651,478	700,389	711,088	**714,766**
less: Purchased inputs	231,775	241,180	249,969	248,506	**237,610**
Farm origin	37,544	37,625	42,355	38,607	**37,658**
Feed purchased	19,524	19,610	25,542	23,145	**22,339**
Livestock and poultry purchased	65	65	45	59	**72**
Seed purchased	17,955	17,950	16,768	15,403	**15,247**
Manufactured inputs	85,550	87,659	90,455	89,218	**86,663**
Fertilizers and lime	28,744	29,807	31,688	30,845	**29,659**
Pesticides	18,071	17,238	17,864	18,241	**18,302**
Petroleum fuel and oils	23,204	23,619	23,156	22,894	**21,804**
Electricity	15,531	16,995	17,747	17,238	**16,898**
Other purchased inputs [4]	108,681	115,896	117,159	120,681	**113,289**
plus: Net government transactions [5]	-7,274	-7,628	-5,678	- 460	**1,835**
Gross value added	412,119	402,670	444,742	462,122	**478,991**
less: Capital consumption	43,752	48,436	51,677	54,158	**55,155**
Net value added	368,367	354,234	393,065	407,964	**423,836**
less: Payments to stakeholders	208,302	210,245	205,687	201,318	**213,097**
Employee compensation (total hired labor)	181,154	183,797	178,604	174,192	**187,020**
Net rent received by nonoperator landlords	6,730	5,101	5,157	5,531	**5,460**
Real estate and nonreal estate interest	20,418	21,347	21,926	21,595	**20,617**
Net farm income	160,065	143,989	187,378	206,646	**210,739**

[1] Revised.
[2] 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.
[3] A positive value of inventory change represents current-year production not sold by December 31. A negative value is an offset to production from prior years included in current-year sales.
[4] Includes repair and maintenance of capital items, machine hire and customwork, marketing, storage, and transportation expenses, contract labor, and miscellaneous expenses.
[5] Net government transactions is derived by subtracting motor vehicle registration, licensing fees, and property taxes from direct government payments.
Source: Economic Research Service, USDA.

- **Sugar**
  Sugar production for 2010 was 172,000 tons of 96° raw sugar, a decrease of 2 percent from the previous year. This was the eighth consecutive year for which raw sugar production levels decreased. Sugar price during 2010 increased by 62 percent to $606 per ton which is the highest since 1974. Raw sugar, with a total value of $104.2 million, was up 58 percent from the 2009 level. Hawaii's one sugar plantation was able to harvest 1.2 million tons of sugarcane from 15,500 acres. The average yield for sugarcane harvested in 2010 was 77.1 tons per acre.

- **Coffee**
  For the 2010-2011 growing season, Hawaii coffee growers harvested 6,300 acres, unchanged for the past three consecutive years. About 8.8 million pounds of parchment equivalent was picked during the season, 1 percent more than the 2009-2010 marketings. Weather was variable with some areas experiencing drought conditions while other areas fared much better. Irrigation was stepped up to help alleviate the dry conditions. Next season 2011-2012 crop is expected to be better due to more rainfall. The Coffee Berry Borer (CBB) was confirmed on the Big Island on September 8, 2010. Measures are being implemented to control the pest on Hawaii island and prevent the spread to the other islands. The average farm price for coffee from the 2010-2011 season was $3.80 (parchment equivalent basis), up 20 cents from the revised previous year's average. Total farm revenues generated was an estimated $33.4 million (parchment equivalent basis), 7 percent higher than the revised 2009-2010 value of $31.3 million. Hawaii County and the aggregate totals of Kauai, Honolulu, and Maui Counties coffee breakouts are not published beginning with the 2009-2010 season to protect the confidentiality of individual operations.

- **Macadamia Nuts**
  Hawaii's 2010-2011 utilized production of macadamia nuts is estimated at 40.0 million pounds net, wet-in-shell. This season's estimate represents a 2.0 million pound or 5 percent decline from the previous season and the lowest since the 1984-1985 season. Dry weather contributed to the 2010-2011 lower output. Some growers noted it had been the driest year on record. More rainfall should improve orchards and the next season's 2011-2012 crop. Other factors contributing to the smaller crop were economics, insects, diseases, feral pigs, and volcanic fog damage on flowers. When examining the harvested crop immature and moldy, rotten nuts accounted for more than half of the loss assessment.

  For the 2010-2011 season, growers harvested an estimated 15,000 acres, unchanged for the past four seasons. Statewide, there were 17,000 acres in crop and an estimated 1.2 million macadamia nut trees. Yields averaged 2,670 pounds per acre (net, wet-in-shell basis) for the 2010-2011 season, or 130 pounds less per acre than the 2009-2010 season. Average moisture content for this season's entire crop was 20.3 percent compared with 20.1 percent for the 2009-2010 crop.

  The average farm prices have begun to improve after recent years of low returns, providing some incentive for growers to maintain their orchards. The farm price for macadamia nuts averaged 75.0 cents per pound on a net, wet-in-shell basis for the 2010-2011 crop season, 5.0 cents more than the 2009-2010 average and increasing for the third consecutive year. Higher price contributed to the 2 percent rise in farm value from last season to $30.0 million this season.

COFFEE: Number of Farms, Acreage, Yield, Marketings, Price, and Value, by County, 2006/2007-2010/2011 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]		
	Number	*---------- Acres ----------*		*----- 1,000 pounds -----*		*---------- Cents per pound ----------*			*1,000 dollars*	*1,000 pounds*
State										
2006-2007	820	8,200	6,300	1.2	7,400			430.0	31,820	5,900
2007-2008	830	7,800	6,400	1.2	7,500			425.0	31,875	6,000
2008-2009	830	7,800	6,300	1.4	8,700			340.0	29,580	7,000
2009-2010	830	8,000	6,300	1.4	8,700			360.0	31,320	7,000
2010-2011	**830**	**8,000**	**6,300**	**1.4**	**8,800**			**380.0**	**33,440**	**7,100**
County:										
Hawaii										
2006-2007	775	3,800	3,000	1.3	4,000	135.0	765.0	640.0	25,600	3,200
2007-2008	790	3,800	3,000	1.3	3,900	140.0	820.0	650.0	25,350	3,100
2008-2009	790	3,800	2,900	1.4	4,100	115.0	680.0	530.0	21,730	3,300
2009-2010 [5]										
2010-2011 [5]										
Honolulu/Kauai/Maui [6]										
2006-2007	45	4,400	3,300	1.0	3,400			182.9	6,220	2,700
2007-2008	40	4,000	3,400	1.1	3,600			181.3	6,525	2,900
2008-2009	40	4,000	3,400	1.4	4,600			170.7	7,850	3,700
2009-2010 [5]										
2010-2011 [5]										

[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] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.
[6] Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

GINGER ROOT

The ginger root estimating program was discontinued beginning with the 2009-2010 season. Harvested acreage, yield, and production will continue to be available every five years in the Census of Agriculture with the upcoming reference year of 2012.

GINGER ROOT: Acreage, Yield, Production, Price, and Value, State of Hawaii, 2006/2007-2010/2011 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*
2006-2007	80	35.0	2,800	85.0	2,380
2007-2008	60	30.0	1,800	160.0	2,880
2008-2009	50	32.0	1,600	140.0	2,240
2009-2010 [2]					
2010-2011 [2]					

[1] Harvesting normally begins in December and continues into the following year.
[2] Beginning 2009, data series discontinued.

GINGER ROOT: U.S. Imports, 2006-2010

Year	Unground (including fresh) [1]	Ground [2]	Sweet [3]	Candied [4]	Total
			1,000 pounds		
2006	[5] 68,739	3,029	8,034	4,268	[5] 84,070
2007	[5] 75,083	3,206	9,468	4,568	[5] 92,325
2008	[5] 91,457	2,119	12,064	[5] 4,068	[5] 109,708
2009	92,103	1,651	10,972	3,569	108,295
2010	**94,125**	**3,278**	**8,721**	**4,447**	**110,571**

[1] Harmonized number 0910.10.2000.
[2] Harmonized number 0910.10.4000.
[3] Preserved by Nesoi, harmonized number 2008.99.6300.
[4] Harmonized number 2006.00.3000.
[5] Revised.
Source: USDA – Foreign Agriculture Services, Global Agricultural Trade System.

FRESH HERBS: Production, Price, and Value, State of Hawaii, 2006-2010

Year	Basil			Parsley	Chinese parsley (Cilantro)	Other herbs [1]	All herbs
	Sweet (Italian)	Asian	Total				
Production – *1,000 pounds*							
2006	2,000	1,600	3,600	250	200	1,650	5,700
2007	2,100	1,600	3,700	140	150	1,410	5,400
2008	2,500	1,700	4,200	100	180	1,120	5,600
2009	1,900	2,300	4,200	[2]	[2]	1,100	5,300
2010	**1,200**	**2,000**	**3,200**	**[2]**	**[2]**	**1,200**	**4,400**
Farm price – *dollars per pound*							
2006	1.90	.95		1.85	2.40	1.70	
2007	1.65	1.25		2.10	2.60	2.20	
2008	1.75	1.40		2.25	2.40	2.15	
2009	1.95	1.35		[2]	[2]	2.81	
2010	**1.95**	**1.60**		**[2]**	**[2]**	**4.39**	
Farm value – *1,000 dollars*							
2006	3,800	1,520	5,320	462	480	2,805	9,067
2007	3,465	2,000	5,465	294	390	3,102	9,251
2008	4,375	2,380	6,755	225	432	2,408	9,820
2009	3,705	3,105	6,810	[2]	[2]	3,087	9,897
2010	**2,340**	**3,200**	**5,540**	**[2]**	**[2]**	**5,266**	**10,806**

[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.
[2] Data not shown separately to avoid disclosure of individual operations but combined and included with "Other herbs."

SEED CROPS: Number of Farms, Acreage, Outshipments, and Value, State of Hawaii, 2006/2007-2010/2011

Crop year [1]	Farms	Acreage				Total outshipments of seed	Value [2]		
		Total	Nursery	Seed increase	Grow-out or observation		Total	Seed corn	Other seed crops
	Number	*Acres*				*1,000 pounds*	*1,000 dollars*		
2006-2007	10	4,260	1,295	2,910	55	10,470	103,040	98,050	4,990
2007-2008	10	5,300	1,830	3,470	0	8,380	140,710	135,580	5,130
2008-2009	10	5,990	1,920	4,060	10	11,275	176,990	169,275	7,715
2009-2010	11	6,500	2,190	4,290	20	12,000	236,410	224,490	11,920
2010-2011	**10**	**7,100**	**2,005**	**5,030**	**65**	**9,770**	**247,220**	**236,440**	**10,780**

[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: Number of Farms, Acreage, Yield, Production, Price, and Value, by County, 2006-2010 [1]

Year	Farms [2]	Acreage		Yield per acre		Production of cane for sugar	Farm price [3]	Value of cane for sugar [4]
		In crop [2]	Harvested for sugar	Sugarcane [3]	Raw sugar 96 [o]			
	Number	*--------- 1,000 acres ---------*		*---------- Tons ----------*		*1,000 tons*	*Dollars per ton*	*Million dollars*
State								
2006	2	42.1	20.4	79.1	10.44	1,614	31.10	50.2
2007	2	39.3	20.4	73.2	10.11	1,493	31.90	47.6
2008	2	39.7	20.4	69.7	9.05	1,422	31.10	44.2
2009	2	39.6	20.3	65.6	8.70	1,332	33.20	44.2
2010	**1**	**34.5**	**15.5**	**77.1**	**11.10**	**1,195**	**58.40**	**69.8**
County:								
Kauai								
2006	1	7.2	3.5	83.1	11.44	291	32.70	9.5
2007	1	6.9	3.5	86.6	11.89	303	32.20	9.8
2008	1	5.2	3.5	88.6	11.55	310	31.40	9.7
2009	1	5.2	5.2	68.8	9.45	358	39.60	14.2
2010	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Maui								
2006	1	34.9	16.9	78.3	10.24	1,323	30.80	40.7
2007	1	32.4	16.9	70.4	9.74	1,190	31.80	37.8
2008	1	34.5	16.9	65.8	8.55	1,112	31.00	34.5
2009	1	34.4	15.1	64.5	8.40	974	30.80	30.0
2010	**1**	**34.5**	**15.5**	**77.1**	**11.10**	**1,195**	**58.40**	**69.8**

[1] Primary data source, Hawaii Agricultural Research Center.
[2] At end of year.
[3] Yield and farm price may not compute exactly due to rounding.
[4] Value of cane for sugar estimated by deducting processing and marketing costs from value of sugar and molasses.

SUGAR: Production of Raw Sugar and Molasses, Price, and Value, by County, 2006-2010 [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							
2006	213	66	351	74.70	74.8	4.9	79.7
2007	206	62	344	85.80	70.9	5.4	76.3
2008	185	63	357	84.20	66.1	5.3	71.4
2009	176	55	374	140.30	65.8	7.8	73.6
2010	**172**	**51**	**606**	**106.80**	**104.2**	**5.4**	**109.6**
County:							
Kauai							
2006	40	10	356	70.00	14.2	.7	14.9
2007	41	12	353	79.30	14.5	1.0	15.5
2008	40	11	365	70.00	14.6	.8	15.4
2009	49	14	430	133.10	21.1	1.9	23.0
2010	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Maui							
2006	173	56	350	75.50	60.6	4.2	64.8
2007	165	50	342	87.30	56.4	4.4	60.8
2008	145	52	355	87.20	51.5	4.5	56.0
2009	127	41	352	142.80	44.7	5.9	50.6
2010	**172**	**51**	**606**	**106.80**	**104.2**	**5.4**	**109.6**

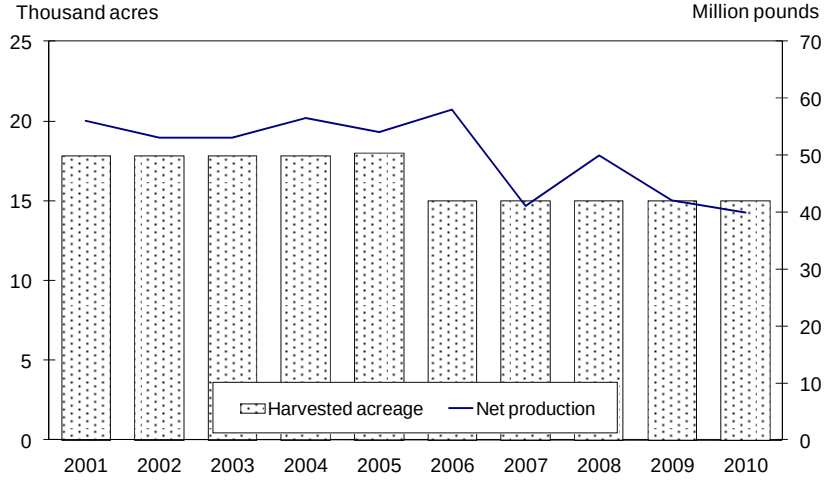
[1] Primary data source, Hawaii Agricultural Research Center.
[2] Derived from production and value. State and county prices may not compute exactly due to rounding.
[3] Commercial.

MACADAMIA NUTS: Number of Farms, Acreage, Yield, Production, Moisture, Price, and Value, State of Hawaii, 2006/2007-2010/2011 Crop Years

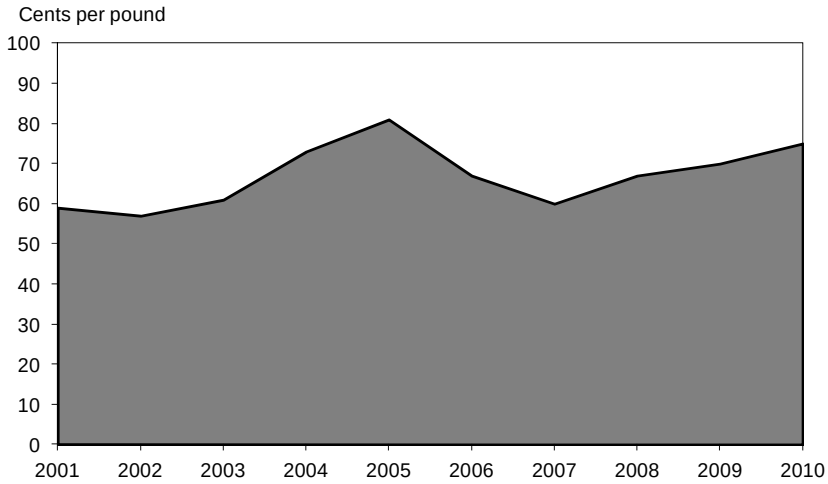
Crop year [1]	Farms	Acreage		Yield per acre [2]	Utilized production [3]		Average moisture		Farm prices [3]		Farm value [6]
		In crop	Harvested		Gross	Net [4]	Entire crop	Purchases only	Gross [5]	Net	
	Number	*---------- Acres ----------*		*-------- 1,000 pounds --------*			*------- Percent -------*		*Cents per ------ pound ------*		*1,000 dollars*
2006-2007	570	17,000	15,000	3.9	65,000	58,000	21.2	22.1	59.8	67.0	38,860
2007-2008	570	17,000	15,000	2.7	48,000	41,000	21.3	21.5	51.3	60.0	24,600
2008-2009	570	17,000	15,000	3.3	60,000	50,000	20.5	21.4	55.8	67.0	33,500
2009-2010	570	17,000	15,000	2.8	50,000	42,000	20.1	20.8	58.8	70.0	29,400
2010-2011	**570**	**17,000**	**15,000**	**2.7**	**47,000**	**40,000**	**20.3**	**20.6**	**63.8**	**75.0**	**30,000**

[1] Season begins July 1st and ends June 30th of the following year. [2] Net production divided by acreage harvested. [3] Wet-in-shell basis. [4] Gross pounds less total spoilage. [5] Farm value divided by gross production. [6] Net production multiplied by net farm price.

MACADAMIA NUTS: Harvested Acreage and Net Production, State of Hawaii, 2001-2010 Seasons



MACADAMIA NUTS: Net, Wet-In-Shell Farm Prices, State of Hawaii, 2001-2010 Seasons



The preliminary value of Hawaii's floriculture and nursery products is estimated at $75.6 million for 2010, down 2 percent from the revised 2009 value. The downturn in the economy has continued from 2008 into 2009, negatively impacting grower sales and employee staffing levels. Other concerns were volcanic haze, adverse weather, and the high cost of farming. Some plant exporters noted restrictions on Hawaii exports have limited their sales.

FLORICULTURE AND NURSERY PRODUCTS: Value of Grower Sales, by County, 2006-2010 [1]

Year	Cut flowers [2]	Orchids [3]	Lei flowers	Foliage [4]	Potted flowering plants	All other nursery products [5]	Unspecified sales [6]	Total
					1,000 dollars			
State								
2006	13,536	21,510	3,520	17,967	6,092	34,645	1,455	98,725
2007	12,170	21,542	4,709	20,074	6,499	41,996	1,720	108,710
2008	9,578	18,169	3,783	14,949	4,144	42,239	1,800	94,662
2009	7,248	15,880	2,558	12,143	3,972	33,463	1,550	76,814
2010	**7,139**	**15,983**	**2,487**	**10,437**	**3,914**	**34,150**	**1,500**	**75,610**
County:								
Hawaii								
2006	9,564	13,825	811	14,821	1,160	9,751	595	50,527
2007	7,704	14,075	656	16,197	1,153	10,687	720	51,192
2008	5,950	11,774	532	11,273	699	10,210	800	41,238
2009 [7]								
2010 [7]								
Honolulu								
2006	955	6,197	1,342	2,292	3,569	18,718	365	33,438
2007	952	5,922	2,507	3,201	4,413	23,200	430	40,625
2008	857	4,793	1,782	2,863	2,167	22,465	435	35,362
2009 [7]								
2010 [7]								
Kauai								
2006	232	496	33	341	98	1,597	140	2,937
2007	221	441	42	54	72	2,546	180	3,556
2008	226	483	37	294	73	2,641	195	3,949
2009 [7]								
2010 [7]								
Maui								
2006	2,785	992	1,334	513	1,265	4,579	355	11,823
2007	3,293	1,104	1,504	622	861	5,563	390	13,337
2008	2,545	1,119	1,432	519	1,205	6,923	370	14,113
2009 [7]								
2010 [7]								

[1] Includes only producers having total sales of $10,000 or more.
[2] Cut orchids included in "Orchids" category.
[3] Includes cut and potted orchids and dendrobium seedlings. Beginning 2010, excludes dendrobium seedlings.
[4] Includes cut, potted, and unfinished.
[5] Includes bedding/garden plants, plant rentals, landscape plants, propagation materials, sod, trees, and any other nursery products not elsewhere classified. Beginning 2010, includes dendrobium seedlings.
[6] Includes grower sales greater than $999 but less than $10,000 which were not categorized.
[7] County estimates not published due to staff reduction-in-force but combined and included in the State total.

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2006-2010 [1]

Crop	Farms having sales [2]	Quantity sold	Value of sales
	Number	*1,000*	*1,000 dollars*
CUT FLOWERS			
Anthuriums - *dozens*			
2006	58	661	4,878
2007	56	667	4,530
2008	48	525	3,518
2009	40	449	3,120
2010	**44**	**441**	**3,397**
Birds of Paradise - *dozens*			
2006	31	46	352
2007	31	28	207
2008	25	25	175
2009	20	16	129
2010	**20**	**11**	**85**
Chrysanthemums, pompon - *bunches*			
2006	5	205	441
2007	5	201	452
2008	5	191	437
2009 [3]			
2010 [3]			
Ginger, pink - *dozens*			
2006	52	69	549
2007	46	52	431
2008	45	47	394
2009	33	42	346
2010	**36**	**46**	**316**
Ginger, red - *dozens*			
2006	60	135	1,059
2007	59	118	952
2008	51	105	789
2009	42	76	576
2010	**39**	**70**	**444**
Gingers, other - *dozens*			
2006	20	21	206
2007	19	15	139
2008	20	11	104
2009	17	8	62
2010	**17**	**10**	**90**
Heliconias - *dozens*			
2006	64	68	822
2007	61	67	772
2008	55	62	670
2009	45	51	631
2010	**43**	**47**	**606**

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2006-2010 [1] -- Continued

Crop	Farms having sales [2]	Quantity sold	Value of sales
	Number	*1,000*	*1,000 dollars*
Proteas - *stems*			
2006	31	2,293	1,828
2007	30	1,932	2,098
2008	25	1,380	1,329
2009	20	1,245	1,374
2010	**20**	**1,199**	**1,278**
Other cut flowers - *dozens*			
2006	38	NA	3,401
2007	46	NA	2,589
2008	51	NA	2,162
2009	27	NA	1,010
2010	**27**	**NA**	**923**
ORCHIDS			
Cymbidiums, cut			
2006	8	356	261
2007	10	407	243
2008	7	200	222
2009	9	210	226
2010	**7**	**172**	**212**
Dendrobiums, cut - *dozens*			
2006	43	309	2,481
2007	36	303	2,260
2008	38	280	2,170
2009	31	203	1,660
2010	**32**	**195**	**1,531**
Oncidiinae, cut [4] - *dozens*			
2006	26	59	630
2007	20	48	535
2008	19	49	530
2009	15	29	348
2010	**22**	**33**	**393**
Other cut orchids [5] - *dozens*			
2006	15	NA	721
2007	15	NA	727
2008	22	NA	298
2009	15	NA	317
2010	**17**	**NA**	**374**

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2006-2010 [1] -- Continued

Crop	Farms having sales [2]	Quantity sold	Value of sales
	Number	*1,000*	*1,000 dollars*
Dendrobiums, potted			
2006	73	984	5,540
2007	60	911	5,092
2008	61	753	4,111
2009	59	632	3,577
2010	**58**	**611**	**3,556**
Dendrobiums, seedlings [6]			
2006	9	NA	60
2007	7	NA	343
2008	10	NA	353
2009	4	NA	333
2010 [7]			
Oncidiinae, potted [4]			
2006	37	222	1,310
2007	44	521	3,673
2008	43	402	3,087
2009 [3]			
2010 [3]			
Phalaenopsis, potted			
2006	23	90	752
2007	19	139	1,029
2008	23	119	945
2009	26	129	955
2010	**23**	**157**	**1,119**
Other potted orchids			
2006	78	1,615	9,755
2007	63	1,428	7,640
2008	62	1,090	6,453
2009	71	1,187	8,464
2010	**80**	**1,258**	**8,798**

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2006-2010 [1] -- Continued

Crop	Farms having sales [2]	Quantity sold	Value of sales
	Number	*1,000*	*1,000 dollars*
FOLIAGE			
Dracaena, potted			
2006	26	NA	5,540
2007	29	NA	6,010
2008	26	NA	3,919
2009	23	NA	2,516
2010	**19**	**NA**	**2,683**
Palms, potted			
2006	49	NA	8,309
2007	39	NA	8,698
2008	35	NA	6,635
2009	30	NA	5,126
2010	**31**	**NA**	**3,755**
Hanging baskets, potted			
2006	15	NA	110
2007	11	NA	132
2008	10	NA	69
2009	10	NA	96
2010	**11**	**NA**	**81**
Other potted foliage			
2006	29	NA	2,170
2007	32	NA	3,763
2008	28	NA	3,443
2009	40	NA	3,257
2010	**25**	**NA**	**2,845**
Ti leaves, cut - *leaves*			
2006	45	6,400	704
2007	35	3,800	387
2008	41	3,300	316
2009	36	2,400	241
2010	**38**	**3,600**	**349**
Other cut greens			
2006	44	NA	530
2007	40	NA	547
2008	40	NA	421
2009	26	NA	314
2010	**28**	**NA**	**333**
Unfinished foliage stock			
2006	10	NA	604
2007	9	NA	537
2008	6	NA	146
2009	14	NA	593
2010	**5**	**NA**	**391**

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2006-2010 [1] -- Continued

Crop	Farms having sales [2]	Quantity sold	Value of sales
	Number	*1,000*	*1,000 dollars*
LEI/INDIVIDUAL BLOOMS			
Dendrobiums - *blooms*			
2006	23	14,900	535
2007	20	8,500	282
2008	22	9,700	328
2009	16	7,000	238
2010	**19**	**6,700**	**221**
Pikake - *strands*			
2006	6	56.0	160
2007	5	65.0	183
2008	5	56.0	167
2009 [3]			
2010 [3]			
Plumerias - *blooms*			
2006	15	13,200	397
2007	15	12,800	566
2008	11	9,500	400
2009	9	6,100	285
2010	**11**	**5,700**	**301**
Vandaceous [8] - *blooms*			
2006	5	10,800	423
2007	4	7,400	331
2008 [3]			
2009 [3]			
2010 [3]			
Other lei/individual - *blooms*			
2006	NA	NA	2,005
2007	NA	NA	3,347
2008	NA	NA	2,888
2009	NA	NA	2,035
2010	**NA**	**NA**	**1,965**

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2006-2010 [1] -- Continued

Crop	Farms having sales [2]	Quantity sold	Value of sales
	Number	*1,000*	*1,000 dollars*
POTTED FLOWERING PLANTS			
Anthuriums			
2006	19	110	500
2007	13	101	379
2008	15	27	204
2009	16	34	298
2010	**15**	**34**	**280**
Bromeliads			
2006	11	140	648
2007	9	191	818
2008	10	45	279
2009	7	40	250
2010	**10**	**48**	**295**
Poinsettias			
2006	30	329	1,560
2007	20	291	1,306
2008	19	270	1,376
2009	21	303	1,414
2010	**18**	**301**	**1,411**
Other potted flowering plants			
2006	28	NA	3,384
2007	27	NA	3,996
2008	30	NA	2,285
2009	30	NA	2,010
2010	**24**	**NA**	**1,928**
POTTED BEDDING/GARDEN			
Impatiens, New Guinea			
2006	10	162	292
2007	8	111	155
2008	8	106	165
2009	9	106	182
2010	**7**	**98**	**161**
Impatiens, other			
2006	11	254	146
2007	8	203	114
2008	6	116	61
2009	9	208	115
2010	**6**	**193**	**103**
Other bedding/garden			
2006	25	NA	2,828
2007	19	NA	3,130
2008	24	NA	2,640
2009	19	NA	2,591
2010	**17**	**NA**	**2,675**

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2006-2010 [1] -- Continued

Crop	Farms having sales [2]	Quantity sold	Value of sales
	Number	*1,000*	*1,000 dollars*
PLANT RENTALS			
2006	42	NA	5,199
2007	43	NA	6,830
2008	56	NA	5,943
2009	39	NA	5,279
2010	**45**	**NA**	**5,052**
LANDSCAPE PLANT MATERIAL [9]			
2006	138		20,813
2007	164		27,660
2008	163		29,112
2009	119		22,318
2010	**129**		**22,648**
OTHER NURSERY PRODUCTS [10]			
2006			5,367
2007			4,107
2008			4,318
2009			2,978
2010			**3,511**
UNSPECIFIED SALES [11]			
2006			1,455
2007			1,720
2008			1,800
2009			1,550
2010			**1,500**
TOTAL			
2006	930		98,725
2007	1,060		108,710
2008	1,025		94,662
2009	1,010		76,814
2010	**970**		**75,610**

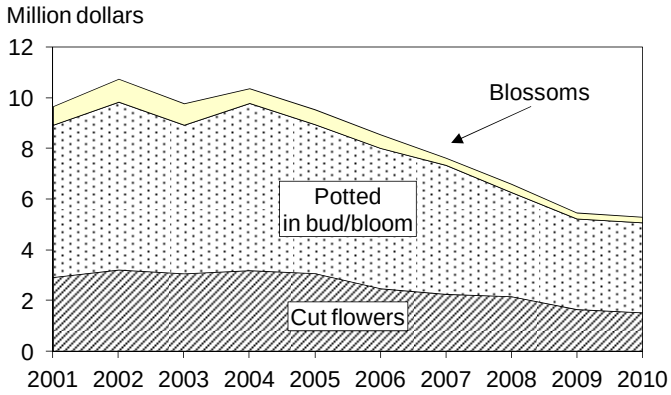
NA = Not available.
[1] Includes only producers having total sales of $10,000 or more.
[2] Number of farms having sales during that year; "Total" is unduplicated count.
[3] Data not shown separately to avoid disclosure of individual operations but combined and included with "Other" category in each section.
[4] Prior to 2007, formerly called Oncidium.
[5] Includes cattleyas, vandaceous, phalaenopsis, and others.
[6] Includes community pots, liners, tissue culture flasks, plugs, etc.
[7] Data not shown separately to avoid disclosure of individual operations but combined and included with "Other Nursery Products".
[8] Prior to 2007, formerly called Vanda, Miss Joaquim.
[9] Includes broadleaf and coniferous evergreens, deciduous and flower trees, palms, and 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.
[10] Includes other flowers or nursery products not elsewhere classified.
[11] Includes grower sales greater than $999 but less than $10,000 which were not categorized.

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms and Growing Area, by County, 2006-2010

Year	Farms	Greenhouse[1]	Artificial shade	Open field	Total area
	Number	*---------- 1,000 square feet ----------*		*---------- Acres ----------*	
State					
2006	930	2,190	25,410	3,430	4,064
2007	1,060	2,020	25,015	3,755	4,376
2008	1,025	2,120	23,570	2,580	3,170
2009	1,010	1,930	24,615	2,170	2,780
2010	**970**	**1,860**	**21,925**	**2,000**	**2,545**
County:					
Hawaii					
2006	415	1,450	20,165	2,085	2,581
2007	475	1,435	19,805	2,200	2,688
2008	465	1,520	18,100	1,080	1,530
2009 [2]					
2010 [2]					
Honolulu					
2006	250	255	3,980	610	707
2007	285	140	4,215	695	795
2008	270	165	4,270	600	700
2009 [2]					
2010 [2]					
Kauai					
2006	75	205	530	215	232
2007	90	90	505	220	234
2008	90	155	500	240	255
2009 [2]					
2010 [2]					
Maui					
2006	190	280	735	520	544
2007	210	355	490	640	659
2008	200	280	700	660	685
2009 [2]					
2010 [2]					

[1] Glass or glass substitute structure.
[2] County estimates not published due to staff reduction-in-force but combined and included in the State total.

DENDROBIUMS: Value of Sales, State of Hawaii, 2001-2010 [1]



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

DENDROBIUM ORCHIDS: Sales and Value, State of Hawaii, 2006-2010 [1]

Year	Individual blossoms		Cut flowers [2]		Potted in bud/bloom		Seedlings [3]		Total value
	Number sold	Value	Number sold	Value	Number sold	Value	Number sold	Value	
	Million blooms	*1,000 dollars*	*1,000 dozens*	*1,000 dollars*	*1,000 pots*	*1,000 dollars*	*1,000 pots*	*------- 1,000 dollars ------*	
2006	14.9	535	309	2,481	984	5,540	10	60	8,616
2007	8.5	282	303	2,260	911	5,092	NA	343	7,977
2008	9.7	328	280	2,170	753	4,111	NA	353	6,962
2009	7.0	238	203	1,660	632	3,577	NA	333	5,808
2010	**6.7**	**221**	**195**	**1,531**	**611**	**3,556**	**NA**	[4]	**5,308**

NA = Not Available.
[1] Includes only producers with total sales of $10,000 or more.
[2] Prior to 2007, formerly called cut sprays.
[3] Prior to 2007, formerly called community pots. Includes community pots, liners, tissue culture flasks, plugs, etc.
[4] Data not shown separately to avoid disclosure of individual operations.

DENDROBIUM ORCHIDS (POTTED IN BUD/BLOOM AND CUT SPRAYS): Number of Farms and Production Area, State of Hawaii, 2006-2010 [1]

Year	Farms		Production area		
	Cut flowers [2]	Potted in bud/bloom	Cut flowers [2]	Potted in bud/bloom	Total
	---------- Number ----------		*---------- 1,000 square feet ----------*		
2006	43	73	2,550	2,395	4,945
2007	36	60	2,390	2,640	5,030
2008	38	61	2,415	2,500	4,915
2009	31	59	2,345	2,290	4,635
2010	**32**	**58**	**2,100**	**1,970**	**4,070**

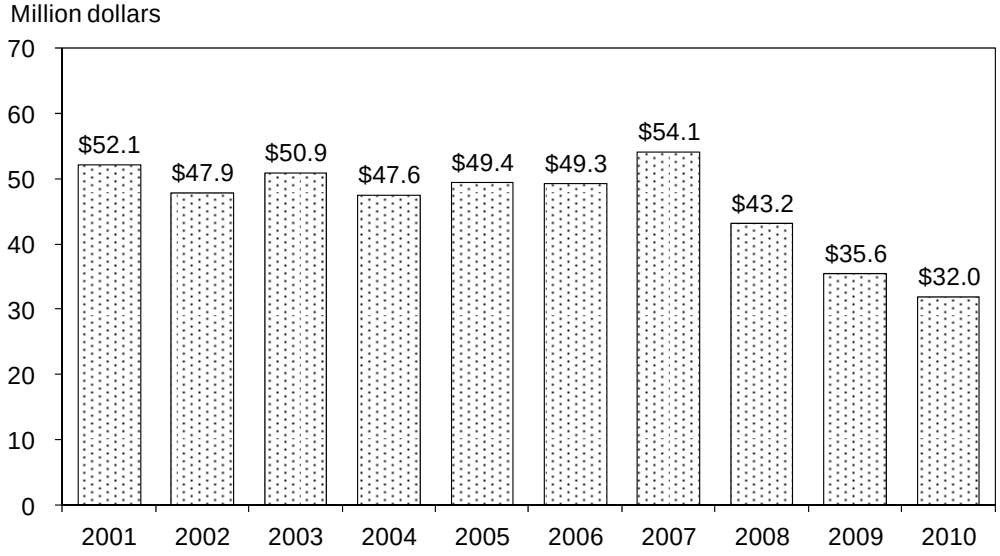
[1] Includes only producers with $10,000 or more in total sales.
[2] Prior to 2007, formerly called cut sprays.

FLORICULTURE AND NURSERY PRODUCTS: Out-of-State Sales, State of Hawaii, 2006-2010 [1]

Commodity	2006	2007	2008	2009	2010
			1,000 dollars		
CUT FLOWERS					
Anthuriums	6,935	6,905	5,800	4,720	**4,540**
Birds of Paradise	510	390	370	310	**260**
Ginger, red	620	520	510	400	**320**
Gingers, other	550	510	470	500	**500**
Heliconias	1,100	1,100	1,000	900	**900**
Proteas	1,900	2,040	1,500	1,500	**1,400**
Mixed assortment of cut flowers	3,020	3,910	3,890	3,000	**2,000**
ORCHIDS					
Cymbidiums, cut	135	140	125	160	**180**
Dendrobiums, cut	3,100	3,200	3,100	2,500	**2,400**
Oncidiinae, cut [2]	580	485	680	470	**530**
Dendrobiums, potted	3,760	3,100	1,900	1,800	**1,600**
Oncidiinae, potted [2]	1,250	2,920	3,720	[3]	**[3]**
Phalaenopsis, potted	480	325	400	580	**400**
Other potted orchids	9,285	7,975	5,765	6,660	**6,380**
FOLIAGE					
Foliage, potted	11,600	14,000	9,400	7,700	**7,200**
Ti leaves, cut	700	500	500	370	**400**
Other cut greens	1,400	1,400	1,300	1,100	**1,000**
ALL OTHER FLOWERS AND NURSERY PRODUCTS	2,400	4,700	2,800	2,900	**2,000**
Total	49,325	54,120	43,230	35,570	**32,010**

[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.
[2] Prior to 2007, formerly called Oncidium.
[3] Combined with other potted orchids.

FLORICULTURE & NURSERY PRODUCTS: Out-of-State Sales, State of Hawaii, 2001-2010 [1]



[1] Includes wholesale and retail sales.

Hawaii avocado, banana, guava, and papaya growers collectively harvested 49.9 million pounds of fruit for fresh and processed utilization in 2010. This was a 6 percent decline when compared to the 2009 totals. The overall value of these 4 fruits totaled 22.5 million, slipping 11 percent from the previous year. In 2010, fruit acreage totaled 4,065 acres, 3 percent more than the prior year's total. Harvested area was down 1 percent from 2009 to 2,895 acres in 2010. Papayas contributed to almost half of the total acreage, harvested acreage, and value.

- **Avocado**
  Avocado production for 2010 is estimated at 660 thousand pounds, down 37 percent from 2009. In crop acreage remained unchanged at 440 acres; however, harvested acreage declined 11 percent to 330 acres. Weather condition was mainly dry during 2010 affecting crop progress, fruit size, and fruit quality. Growers also mentioned the volcanic haze had affected flowering and fruit set. Farm price averaged 77.0 cents per pound for the 2010 crop, up 12 percent from the previous year. The value totaled $508 thousand for the year, declining 29 percent from 2009.

- **Banana**
  In 2010, banana utilization for the fresh market pegged 17.8 million pounds, 4 percent less than the 2009 total. Weather for 2010 was mixed for banana production. Rainfall totals for the year were again generally below normal levels, but conditions varied greatly by location. Orchard maintenance and banana bunchy top virus monitoring was an ongoing task for growers. Statewide total banana acreage was estimated at 1,400 acres, up 100 acres from 2009. Harvested acreage remained unchanged at 1,100 acres. Producers received an average 60.0 cents per pound for fresh banana in 2010 or 9 percent more than 2009. Sales totaled $10.7 million or 5 percent higher than the previous year.

- **Guava**
  The output of processed guava for 2010 was estimated at 1.3 million pounds or 38 percent below 2009's crop. The in crop acreage summed 150 acres, down 25 acres from the previous year. Harvested acres amounted to 115, declining 15 percent from last year. The 2010 value of sales was estimated at $220 thousand, falling 25 percent from the 2009 levels. Weather for 2010 was generally dry during guava season.

- **Papaya**
  Papaya utilization for 2010 is estimated at 30.1 million pounds, down 4 percent from 2009. Fresh utilization accounted for 97 percent of the total or 29.2 million pounds, 4 percent below a year ago. Acreage in crop increased 50 acres to 2,075 and harvested acreage increased 25 acres to 1,350. The papaya value decreased 22 percent to $11.1 million mainly due to lower prices and limited sales. The ongoing concerns for growers were pest and disease problems, low prices, and high cost of inputs. Some growers also noted their buyers have limited the amount of fruits they could purchase.

MARKET SUPPLY: Fresh Market Fruits, State of Hawaii, 2006-2010 [1 2]

Commodity		2006	2007	2008	2009	2010	Hawaii market share 2010
		1,000 pounds					Percent
Apples:	Inshipments	15,431	16,269	15,413	[2]	**[2]**	
Avocados:	Inshipments	2,349	2,332	1,971	[2]	**[2]**	
	Hawaii	1,020	1,160	1,000	1,040	**660**	
Bananas:	Inshipments	15,408	16,028	19,552	[2]	**[2]**	
	Hawaii	22,000	25,600	17,400	18,500	**17,800**	
Cantaloupe melons:	Inshipments	7,736	7,410	6,241	[2]	**[2]**	
	Hawaii [3]						
Grapefruit:	Inshipments	1,561	1,600	1,307	[2]	**[2]**	
	Hawaii	50	30	46	[4]	**[4]**	
Grapes:	Inshipments	9,506	9,584	9,149	[2]	**[2]**	
Honeydew melons:	Inshipments	3,813	3,905	3,204	[2]	**[2]**	
	Hawaii [3]						
Lemons:	Inshipments	4,154	4,035	3,501	[2]	**[2]**	
	Hawaii	45	33	55	[4]	**[4]**	
Limes:	Inshipments	1,749	2,139	1,957	[2]	**[2]**	
	Hawaii	121	69	76	[4]	**[4]**	
Nectarines:	Inshipments	2,219	2,379	2,513	[2]	**[2]**	
Oranges:	Inshipments	14,824	10,671	12,381	[2]	**[2]**	
	Hawaii [3]						
Papayas:	Inshipments [5]						
	Hawaii [6]	16,740	18,650	16,960	17,170	**[4]**	
Pears:	Inshipments	4,873	5,018	4,776	[2]	**[2]**	
Tangerines:	Inshipments	1,893	1,460	2,000	[2]	**[2]**	
	Hawaii	85	89	98	[4]	**[4]**	
Watermelons:	Inshipments	5,174	4,007	3,772	[2]	**[2]**	
	Hawaii	10,400	13,100	[7]	[4]	**[4]**	
All other fruits:	Inshipments	16,382	17,010	12,478	[2]	**[2]**	
	Hawaii	7,612	7,709	[7]	[4]	**[4]**	
Unspecified fruits:	Inshipments [8]	9,817	11,751	10,463	[2]	**[2]**	
Total:	Inshipments	116,889	115,598	110,678	[2]	**[2]**	
	Hawaii	58,073	66,440	52,744	50,239	**49,614**	
	All	174,962	182,038	163,422	NA	**NA**	

NA = Not available. [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 Hawaii Department of Agriculture. Beginning 2009, data not available due to reduction-in-force eliminating all Market Analysis and News Branch positions. [3] Data not shown separately to avoid disclosure of individual operations but combined and included with "All other fruits". [4] Estimates not published due to staff reduction-in-force but combined and included in the total. [5] Data not shown separately but combined and included with "All other fruits". [6] Fresh intrastate sales only. Excludes mainland and foreign fresh sales. [7] Data not shown separately to avoid disclosure of individual operations but combined and included in the total. [8] Fruit data received without commodity names specified.

TROPICAL SPECIALTY FRUITS: Number of Farms, Acreage, Number of Trees, Production, Price, and Value, State of Hawaii, 2006-2010 [1]

Crop	Farms [2]	Acreage		Number of trees		Utilized production [3]	Farm price [3 4]	Value of sales
		In crop	Harvested	Total	Bearing			
	Number	*---------- Acres ----------*				*1,000 pounds*	*Dollars per pound*	*1,000 dollars*
Atemoya								
2006	25	10	5	500	300	13	1.31	17
2007	25	10	5	500	300	22	1.34	29
2008 [5]								
2009 [6]								
2010 [6]								
Longan								
2006	75	205	115	9,600	5,400	172	3.42	588
2007	75	245	160	11,400	7,500	263	2.98	784
2008	70	260	170	11,800	7,700	310	3.20	992
2009 [6]								
2010 [6]								
Lychee								
2006	135	330	185	10,900	5,400	153	2.97	454
2007	175	330	190	10,900	5,500	224	2.80	627
2008	150	330	190	10,900	5,500	230	2.75	633
2009 [6]								
2010 [6]								
Mango								
2006	120	310	210	14,000	9,500	774	1.09	844
2007	130	340	260	15,400	11,800	690	.97	669
2008	130	350	270	15,000	11,900	660	.98	647
2009 [6]								
2010 [6]								
Persimmon								
2006	20	25	25	1,400	1,400	86	1.57	135
2007	25	30	25	1,700	1,400	60	1.63	98
2008	25	30	25	1,700	1,400	70	1.60	112
2009 [6]								
2010 [6]								
Rambutan								
2006	70	305	190	13,800	8,400	132	2.82	372
2007	75	330	265	14,900	11,900	824	2.39	1,969
2008	70	290	230	13,500	10,400	450	2.40	1,080
2009 [6]								
2010 [6]								

See footnotes at end of table.

Continued

TROPICAL SPECIALTY FRUITS: Number of farms, acreage, number of trees, production, price, and value, State of Hawaii, 2006-2010 [1] -- Continued

Crop	Farms [2]	Acreage		Number of trees		Utilized production [3]	Farm price [3 4]	Value of sales
		In crop	Harvested	Total	Bearing			
	Number	*---------- Acres ----------*				*1,000 pounds*	*Dollars per pound*	*1,000 dollars*
Other								
2006	--	195	80	[7]	[7]	100	--	215
2007	--	185	65	[7]	[7]	197	--	309
2008	--	220	85	[7]	[7]	330	--	528
2009 [6]								
2010 [6]								
Total								
2006	305	1,380	810	[7]	[7]	1,430	--	2,625
2007	310	1,470	970	[7]	[7]	2,280	--	4,485
2008	320	1,480	970	[7]	[7]	2,050	--	3,992
2009 [6]								
2010 [6]								

-- = 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] Price shown reflects average prices received as sold by farmers (loose, packed, etc.), excluding any value added through processing.

[5] Data not shown separately to avoid disclosure of individual operations but combined and included with "Other".

[6] Estimates not published due to staff reduction-in-force but combined and included in the State total on page 7.

[7] Data series discontinued.

PINEAPPLES: Number of Farms, Acreage, Production, Disposition, Price, and Value, State of Hawaii, 2006-2010

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]	
	Number	*1,000 acres*	*1,000 tons*			*Dollars per ton*		*1,000 dollars*
2006	30	12.6	185	89	96	148	630	73,652
2007	40	[4]	[4]	[4]	[4]	[4]	[4]	[4]
2008	40	[4]	[4]	[4]	[4]	[4]	[4]	[4]
2009	40	[4]	[4]	[4]	[4]	[4]	[4]	[4]
2010	**40**	**[4]**	**[4]**	**[4]**	**[4]**	**[4]**	**[4]**	**[4]**

[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.
[4] Data not shown separately to avoid disclosure of individual operations.

PINEAPPLES: Fresh Market Sales, Processed Value, and Total Value, State of Hawaii, 2006-2010

Year	Fresh market sales [1]		Processor value of canned fruit and juice production [3]	Total value: Fresh market and processed
	Quantity	Value [2]		
	1,000 tons	*Million dollars*		
2006	96	60.5	[4]	[4]
2007	[5]	[5]	[4]	[4]
2008	[5]	[5]	[4]	[4]
2009 [5]				
2010 [5]				

[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] Data not available.
[5] Data not shown separately to avoid disclosure of individual operations.

AVOCADOS: Number of Farms, Acreage, Yield, Production, Price, and Value, State of Hawaii, 2006-2010

Year	Farms	Acreage [1]		Yield per acre [2]	Production	Farm price	Value of sales
		In crop	Bearing				
	Number	*Acres*		*1,000 pounds*		*Cents per pound*	*1,000 dollars*
2006	225	380	330	3.1	1,020	68.0	694
2007	250	390	350	3.3	1,160	68.0	789
2008	250	400	330	3.0	1,000	73.0	730
2009	260	440	370	2.8	1,040	69.0	718
2010	**280**	**440**	**330**	**2.0**	**660**	**77.0**	**508**

[1] At end of year.
[2] Production divided by bearing acreage.

BANANAS: Number of Farms, Acreage, Yield, Production, Price, and Value, State of Hawaii, 2006-2010

Year	Farms	Acreage		Yield per acre [2]	Utilized production	Farm price	Value of sales
		In crop [1]	Harvested				
	Number	*Acres*		*1,000 pounds*		*Cents per pound*	*1,000 dollars*
State							
2006	230	1,300	1,100	20.0	22,000	49.0	10,780
2007	240	1,500	1,300	19.7	25,600	41.0	10,496
2008	230	1,300	1,100	15.8	17,400	46.0	8,004
2009	240	1,300	1,100	16.8	18,500	55.0	10,175
2010	**250**	**1,400**	**1,100**	**16.2**	**17,800**	**60.0**	**10,680**

[1] At end of year.
[2] Utilized production divided by acreage harvested.

PAPAYAS: Number of Farms, Acreage, Yield, Utilization, Price, and Value, by County, 2006-2010

Year	Farms	Acreage [1]		Yield per acre [2]	Utilized production	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]											
2006	170	2,095	1,530	18.8	28,700	26,600	2,100	41.3	3.0	38.5	11,049
2007	178	2,065	1,310	25.5	33,400	31,200	2,200	41.7	3.8	39.2	13,094
2008	177	2,190	1,380	24.3	33,500	31,500	2,000	45.5	3.0	43.0	14,393
2009	177	2,025	1,325	23.8	31,500	30,300	1,200	46.7	3.0	45.0	14,186
2010	**173**	**2,075**	**1,350**	**22.3**	**30,100**	**29,200**	**900**	**38.0**	**3.0**	**37.0**	**11,123**
County:											
Hawaii											
2006	125	1,905	1,395	18.8	26,190	24,090	[5] 2,100	40.0		37.0	9,692
2007	125	1,870	1,185	25.8	30,540	28,340	[5] 2,200	40.6		38.0	11,592
2008	120	1,990	1,245	24.5	30,500	28,500	[5] 2,000	44.4		41.7	12,724
2009 [6]											
2010 [6]											
Honolulu											
2006	[7] 45	[7] 190	[7] 135	[7] 18.6	[7] 2,510	[7] 2,510	[5]	[7] 54.1		[7] 54.1	[7] 1,357
2007	[7] 53	[7] 195	[7] 125	[7] 22.9	[7] 2,860	[7] 2,860	[5]	[7] 52.5		[7] 52.5	[7] 1,502
2008	[7] 57	[7] 200	[7] 135	[7] 22.2	[7] 3,000	[7] 3,000	[5]	[7] 55.7		[7] 55.7	[7] 1,669
2009 [6]											
2010 [6]											
Kauai											
2006	[7]	[7]	[7]	[7]	[7]	[7]	[5]	[7]		[7]	[7]
2007	[7]	[7]	[7]	[7]	[7]	[7]	[5]	[7]		[7]	[7]
2008	[7]	[7]	[7]	[7]	[7]	[7]	[5]	[7]		[7]	[7]
2009 [6]											
2010 [6]											
Maui											
2006	[7]	[7]	[7]	[7]	[7]	[7]	[5]	[7]		[7]	[7]
2007	[7]	[7]	[7]	[7]	[7]	[7]	[5]	[7]		[7]	[7]
2008	[7]	[7]	[7]	[7]	[7]	[7]	[5]	[7]		[7]	[7]
2009 [6]											
2010 [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] Maui, Kauai, and Honolulu combined with Hawaii to avoid disclosure of individual operations.
[6] County estimates not published due to staff reduction-in-force but combined and included in the State total.
[7] Maui and Kauai combined with Honolulu to avoid disclosure of individual operations.

PAPAYAS: Acreage, Utilization, Outshipments, and Price, State of Hawaii, 2006-2010

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres [1]													
2006	1,790	1,795	1,785	1,785	1,760	1,510	1,510	1,330	1,325	1,320	1,315	1,135	1,530
2007	1,400	1,160	1,295	1,260	1,315	1,200	1,190	1,370	1,375	1,535	1,365	1,255	1,310
2008	1,430	1,430	1,430	1,310	1,315	1,315	1,350	1,350	1,320	1,405	1,450	1,460	1,380
2009	1,420	1,400	1,400	1,320	1,310	1,315	1,265	1,260	1,260	1,310	1,320	1,320	1,325
2010	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	**1,350**
Utilization (fresh and processed) – *1,000 pounds*													
2006	3,145	2,370	2,340	1,880	2,020	2,380	1,905	2,340	2,855	2,390	2,665	2,410	28,700
2007	2,530	2,235	2,605	2,750	2,610	2,260	2,820	3,020	2,885	3,380	3,220	3,085	33,400
2008	3,280	2,875	2,780	2,820	3,010	2,660	2,215	2,630	2,525	3,100	2,755	2,850	33,500
2009	2,200	2,330	2,760	2,710	2,795	2,795	3,090	2,100	2,545	2,715	2,750	2,710	31,500
2010	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	**30,100**
Total fresh papaya utilization – *1,000 pounds*													
2006	2,920	2,240	2,210	1,725	1,785	2,095	1,705	2,215	2,615	2,185	2,605	2,300	26,600
2007	2,465	2,015	2,345	2,445	2,365	2,170	2,590	2,815	2,765	3,340	3,075	2,810	31,200
2008	2,880	2,645	2,620	2,615	2,785	2,350	2,095	2,380	2,460	3,075	2,745	2,850	31,500
2009	2,190	2,270	2,615	2,520	2,595	2,585	2,775	2,075	2,545	2,710	2,710	2,710	30,300
2010	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	**29,200**
Intrastate fresh papaya utilization – *1,000 pounds*													
2006	1,730	1,450	1,315	1,065	1,120	1,285	1,050	1,400	1,730	1,375	1,705	1,515	16,740
2007	1,615	1,310	1,510	1,570	1,440	1,380	1,580	1,630	1,655	1,750	1,610	1,600	18,650
2008	1,680	1,410	1,415	1,440	1,460	1,230	1,150	1,305	1,290	1,645	1,505	1,430	16,960
2009	1,170	1,350	1,410	1,410	1,555	1,415	1,530	1,145	1,565	1,540	1,540	1,540	17,170
2010 [2]													
Outshipments of fresh papaya – *1,000 pounds*													
2006	1,190	790	895	660	665	810	655	815	885	810	900	785	9,860
2007	850	705	835	875	925	790	1,010	1,185	1,110	1,590	1,465	1,210	12,550
2008	1,200	1,235	1,205	1,175	1,325	1,120	945	1,075	1,170	1,430	1,240	1,420	14,540
2009	1,020	920	1,205	1,110	1,040	1,170	1,245	930	980	1,170	1,170	1,170	13,130
2010 [2]													
Farm price for fresh market sales (to all markets) – *cents per pound*													
2006	34.1	36.5	42.1	46.3	51.5	47.1	47.0	48.1	38.6	38.1	38.3	36.4	41.3
2007	39.8	41.9	45.0	46.1	46.6	49.4	45.8	38.1	37.1	37.8	38.3	39.7	41.7
2008	43.0	44.8	47.4	47.8	49.7	49.2	50.3	49.4	47.4	42.1	39.1	39.0	45.5
2009	48.2	50.5	46.8	44.0	43.8	44.3	45.0	44.6	49.8	47.7	47.7	48.0	46.7
2010	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	**38.0**

[1] Total is average of monthly data.
[2] Estimates not published due to staff reduction-in-force but combined and included in the State total.

GUAVAS: Number of Farms, Acreage, Farm Production, Price, and Value, by County, 2006-2010

Year	Farm production					
	Farms	Acreage		Utilized production	Farm price [1]	Value of sales
		In crop	Harvested			
	Number	*Acres*		*1,000 pounds*	*Cents per pound*	*1,000 dollars*
State						
2006	50	575	365	7,400	14.2	1,051
2007	70	465	170	4,300	15.7	675
2008	60	180	160	3,500	15.8	553
2009	60	175	135	2,100	14.0	294
2010	**60**	**150**	**115**	**1,300**	**16.9**	**220**
County:						
Hawaii						
2006	40	125	100	[2]	[2]	[2]
2007	45	155	140	[2]	[2]	[2]
2008	45	160	145	[2]	[2]	[2]
2009 [3]						
2010 [3]						
Honolulu/Kauai/Maui [4]						
2006	10	450	265	[2]	[2]	[2]
2007	25	310	30	[2]	[2]	[2]
2008	15	20	15	[2]	[2]	[2]
2009 [3]						
2010 [3]						

[1] State average grower price. Equivalent F.O.B. plant, county of production.
[2] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.
[3] County estimates not published due to staff reduction-in-force 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, 2006-2010

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total [1]
	1,000 pounds												
2006	202	164	162	188	227	429	625	802	1,272	1,570	934	825	7,400
2007	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	4,300
2008	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	3,500
2009	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	2,100
2010	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**1,300**

[1] Sum of monthly estimates may not add to annual total due to rounding.
[2] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

- **Vegetables and Melons**
  Cumulative information for vegetables and melons were again modified for the 2010 year because of confidentiality concerns. The following comments and data comparison will be for only the selected crops published on the following two pages.

  The farm gate value for Hawaii's selected vegetables and melons is estimated at $24.9 million in 2010, up 25 percent or $5.0 million from the 2009 amount for the same 13 crops. Cumulative production for these 13 selected vegetables and melons was 39.6 million pounds, up 22 percent from 2009.

  Dry conditions prevailed during most of the year, especially on the leeward slopes of all islands. Irrigation, heavy at times, was required to maintain crop growth and development.

The top volume-producing published vegetable crop during 2010 was sweet potatoes whose estimated production was 12.6 million pounds, up 4.3 million pounds or 52 percent above the previous year. Head cabbage was the second largest published vegetable volume crop estimated at 10.2 million pounds up 17 percent or 1.5 million pounds from the 2009 crop. The largest volume gain measured in percent was lettuce which increased by 100 percent in 2010 compared to the prior year. Romaine lettuce volume placed second in percent increase at 75 percent.

The leading farm gate value of the published vegetables was estimated for sweet potatoes at $6.5 million up $1.1 million or 20 percent from the previous year. Lettuce placed second in farm gate value at $3.6 million up $2.9 million or 385 percent compared to 2009 season. Higher lettuce prices and acreage were the main contributors for this increase.

- **Taro**
  The USDA, NASS, Hawaii Field Office estimates taro production at 3.9 million pounds in 2010, down 3 percent from 2009's estimate of 4.0 million pounds. The farm price increased 6 percent to an average of 64.5 cents per pound, while the value of sales increased 3 percent from 2009 to $2.5 million.

MARKET SUPPLY: Fresh Market Vegetables, State of Hawaii, 2006-2010 [1]

Commodity		2006	2007	2008	2009	2010	Hawaii market share 2010
		1,000 pounds					Percent
Beans, snap:	Inshipments	592	460	540	[1]	**[1]**	
	Hawaii	600	700	700	[2]	**[2]**	
Bittermelon:	Inshipments	108	123	74	[1]	**[1]**	
	Hawaii	180	150	140	360	**140**	
Broccoli:	Inshipments	5,830	5,535	5,205	[1]	**[1]**	
	Hawaii	330	390	360	300	**[2]**	
Burdock:	Inshipments	79	73	71	[1]	**[1]**	
	Hawaii [3]						
Cabbage, Chinese:	Inshipments	949	625	818	[1]	**[1]**	
	Hawaii [5]	6,100	6,300	5,600	5,500	**5,100**	
Cabbage, head:	Inshipments	2,930	2,540	2,329	[1]	**[1]**	
	Hawaii	10,100	10,400	9,400	8,700	**10,200**	
Cabbage, mustard:	Inshipments	262	223	282	[1]	**[1]**	
	Hawaii	1,400	1,400	1,300	1,300	**1,200**	
Carrots:	Inshipments	12,767	11,667	11,144	[1]	**[1]**	
	Hawaii [3]						
Cauliflower:	Inshipments	1,167	1,378	1,350	[1]	**[1]**	
	Hawaii [3]						
Celery:	Inshipments	5,497	5,192	5,133	[1]	**[1]**	
	Hawaii	670	510	360	[6]	**[6]**	
Corn, sweet:	Inshipments	712	806	611	[1]	**[1]**	
	Hawaii	1,800	2,400	2,200	[2]	**[2]**	
Cucumbers:	Inshipments	1,118	1,795	1,383	[1]	**[1]**	
	Hawaii	5,400	5,000	4,800	[2]	**[2]**	
Daikon:	Inshipments	6	2	6	[1]	**[1]**	
	Hawaii [3 4]						
Dasheen:	Inshipments	680	887	716	[1]	**[1]**	
	Hawaii [3]						
Eggplant:	Inshipments	821	970	734	[1]	**[1]**	
	Hawaii	1,000	760	900	1,300	**1,500**	
Ginger root:	Inshipments	105	394	928	[1]	**[1]**	
	Hawaii	4,300	2,800	1,800	1,600	**[6]**	
Lettuce [8]:	Inshipments	8,232	8,824	8,089	[1]	**[1]**	
	Hawaii	1,200	1,000	1,000	950	**1,900**	
Lotus root:	Inshipments	70	51	73	[1]	**[1]**	
	Hawaii [3]						
Onions, dry:	Inshipments	20,562	19,595	18,654	[1]	**[1]**	
	Hawaii	1,400	1,400	1,400	1,500	**1,900**	

See footnotes at end of table.

Continued

MARKET SUPPLY: Fresh Market Vegetables, State of Hawaii, 2006-2010 [1] -- Continued

Commodity		2006	2007	2008	2009	2010	Hawaii market share 2010
		1,000 pounds					Percent
Onions, green:	Inshipments	777	776	589	[1]	**[1]**	
	Hawaii	1,500	1,400	1,600	1,400	**1,500**	
Parsley, American:	Inshipments	204	231	271	[1]	**[1]**	
	Hawaii	250	140	100	[2]	**[2]**	
Peas, Chinese:	Inshipments	256	287	209	[1]	**[1]**	
	Hawaii [3]						
Peppers, green:	Inshipments	3,402	4,864	4,790	[1]	**[1]**	
	Hawaii	2,800	1,800	[2]	[2]	**[2]**	
Potatoes:	Inshipments [4]	39,191	24,392	22,291	[1]	**[1]**	
	Hawaii [3]						
Potatoes, sweet:	Inshipments	1,530	1,715	1,616	[1]	**[1]**	
	Hawaii	6,000	7,100	8,100	8,300	**12,600**	
Pumpkins:	Inshipments	203	419	903	[1]	**[1]**	
	Hawaii	290	470	90	[2]	**[2]**	
Radish:	Inshipments	5	9	0	[1]	**[1]**	
	Hawaii [3]						
Romaine:	Inshipments	10,355	10,937	9,334	[1]	**[1]**	
	Hawaii	1,300	1,200	1,000	800	**1,400**	
Squash, Italian:	Inshipments	1,722	1,845	1,738	[1]	**[1]**	
	Hawaii	1,100	1,200	1,480	1,170	**1,070**	
Squash, Oriental:	Inshipments	492	600	640	[1]	**[1]**	
	Hawaii	400	500	350	340	**290**	
Taro:	Inshipments	962	305	232	[1]	**[1]**	
	Hawaii [5]	100	100	100	100	**100**	
Tomatoes:	Inshipments	4,877	4,265	4,157	[1]	**[1]**	
	Hawaii	14,700	14,300	[2]	[2]	**[2]**	
Watercress:	Inshipments	60	13	4	[1]	**[1]**	
	Hawaii	750	770	750	820	**780**	
All other vegetables:	Inshipments	32,624	33,204	31,967	[1]	**[1]**	
	Hawaii	21,100	[2]	[2]	[2]	**[2]**	
Unspecified vegetables:	Inshipments [7]	14,226	15,648	13,376	[1]	**[1]**	
Total:	Inshipments	159,147	160,650	150,257	[1]	**[1]**	
	Hawaii	84,770	83,650	77,485	79,498	**87,081**	
	All	243,917	244,300	227,742	NA	**NA**	

NA = Not available.

[1] Inshipment data was provided by the Market Analysis and News Branch of the Hawaii Department of Agriculture. Beginning 2009, data is not available due to reduction-in-force eliminating all Market Analysis and News Branch positions.

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

[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] Beginning 2009, data series discontinued.

[7] Vegetable data received without commodity names specified.

[8] Processed lettuce, both local production and inshipments, are included in “All other vegetables”.

SNAP BEANS: Acreage, Yield, Production, Price, and Value, by County, 2006-2010

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State [1]					
2006	120	5.0	600	105.0	630
2007	130	5.4	700	103.0	721
2008	120	5.8	700	107.0	749
2009 [2]					
2010 [2]					
County:					
Hawaii/Kauai [3]					
2006	10	7.5	75	127.0	95
2007	10	6.0	60	147.0	88
2008	10	7.0	70	127.0	89
2009 [2]					
2010 [2]					
Honolulu					
2006	60	5.0	300	116.0	348
2007	70	5.4	380	122.0	464
2008	60	5.0	300	110.0	330
2009 [2]					
2010 [2]					
Maui					
2006	50	4.5	225	83.0	187
2007	50	5.2	260	65.0	169
2008	50	6.6	330	100.0	330
2009 [2]					
2010 [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 on page 7.
[3] Kauai combined with Hawaii to avoid disclosure of individual operations.

SNAP BEANS: Acreage, Production, and Price, State of Hawaii, 2006-2010

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres [1]													
2006	16	7	10	10	5	8	13	8	8	10	12	13	120
2007	14	10	13	13	11	9	9	9	13	9	10	10	130
2008	8	11	12	11	11	8	7	11	10	10	11	10	120
2009 [2]													
2010 [2]													
Production – *1,000 pounds*													
2006	87	58	45	46	16	63	74	50	41	38	45	37	600
2007	48	59	52	66	51	71	58	54	77	56	56	52	700
2008	44	47	80	62	81	62	61	72	52	55	42	42	700
2009 [2]													
2010 [2]													
Farm price – *cents per pound*													
2006	124.9	118.0	122.5	123.5	135.7	102.6	104.2	92.3	70.1	75.0	90.7	90.3	105.0
2007	85.4	110.8	100.1	99.4	98.1	96.4	94.3	96.7	114.7	115.2	116.9	101.9	103.0
2008	93.4	104.1	92.8	115.2	113.2	107.2	107.8	100.9	94.6	99.2	124.4	144.2	107.0
2009 [2]													
2010 [2]													

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.
[2] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total on page 7.

CHINESE CABBAGE: Acreage, Yield, Production, Price, and Value, by County, 2006-2010

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State [1]					
2006	250	24.4	6,100	29.0	1,769
2007	270	23.3	6,300	30.0	1,890
2008	220	25.5	5,600	35.0	1,960
2009	210	26.2	5,500	35.0	1,925
2010	**230**	**22.2**	**5,100**	**32.0**	**1,650**
County:					
Hawaii					
2006	160	26.8	4,280	28.0	1,198
2007	180	25.3	4,560	30.0	1,368
2008	140	29.7	4,160	36.0	1,498
2009 [2]					
2010 [2]					
Honolulu/Kauai/Maui [3]					
2006	90	20.2	1,820	31.4	571
2007	90	19.3	1,740	30.0	522
2008	80	18.0	1,440	32.1	462
2009 [2]					
2010 [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.
[3] Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

CHINESE CABBAGE: Acreage, Production, and Price, State of Hawaii, 2006-2010

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2006	20	24	29	19	17	27	21	18	14	20	21	20	250
2007	23	24	26	27	22	25	22	21	20	20	22	18	270
2008	19	21	20	24	21	20	14	14	13	14	22	18	220
2009 [1]													210
2010 [1]													**230**
Processing and fresh market:													
Production – *1,000 pounds*													
2006	578	548	558	561	657	575	426	389	413	416	459	520	6,100
2007	514	595	658	536	536	600	530	448	458	521	415	489	6,300
2008	381	637	604	463	546	484	380	409	352	521	398	425	5,600
2009 [1]													5,500
2010 [1]													**5,100**
Farm price – *cents per pound*													
2006	28.8	27.2	26.4	26.4	25.1	27.6	28.8	31.3	35.8	33.1	33.0	29.6	29.0
2007	29.5	32.8	30.1	26.1	24.5	28.3	28.9	32.9	32.4	30.4	32.3	33.6	30.0
2008	31.3	33.9	31.1	25.3	28.8	34.6	34.5	49.1	42.0	41.1	37.2	36.0	35.0
2009 [1]													35.0
2010 [1]													**32.0**

[1] Estimates not published due to staff reduction-in-force but combined and included in the State total.

HEAD CABBAGE: Acreage, Yield, Production, Price, and Value, by County, 2006-2010

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State [1]					
2006	450	22.4	10,100	27.0	2,727
2007	440	23.6	10,400	29.0	3,016
2008	410	22.9	9,400	30.0	2,820
2009	420	20.7	8,700	34.0	2,976
2010	**410**	**24.9**	**10,200**	**30.0**	**3,107**
County:					
Hawaii/Honolulu/Kauai [2]					
2006	310	22.6	7,000	27.4	1,918
2007	320	22.5	7,200	29.0	2,088
2008	300	20.3	6,100	30.0	1,830
2009 [3]					
2010 [3]					
Maui					
2006	140	22.1	3,100	26.1	809
2007	120	26.7	3,200	29.0	928
2008	110	30.0	3,300	30.0	990
2009 [3]					
2010 [3]					

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

HEAD CABBAGE: Acreage, Production, and Price, State of Hawaii, 2006-2010

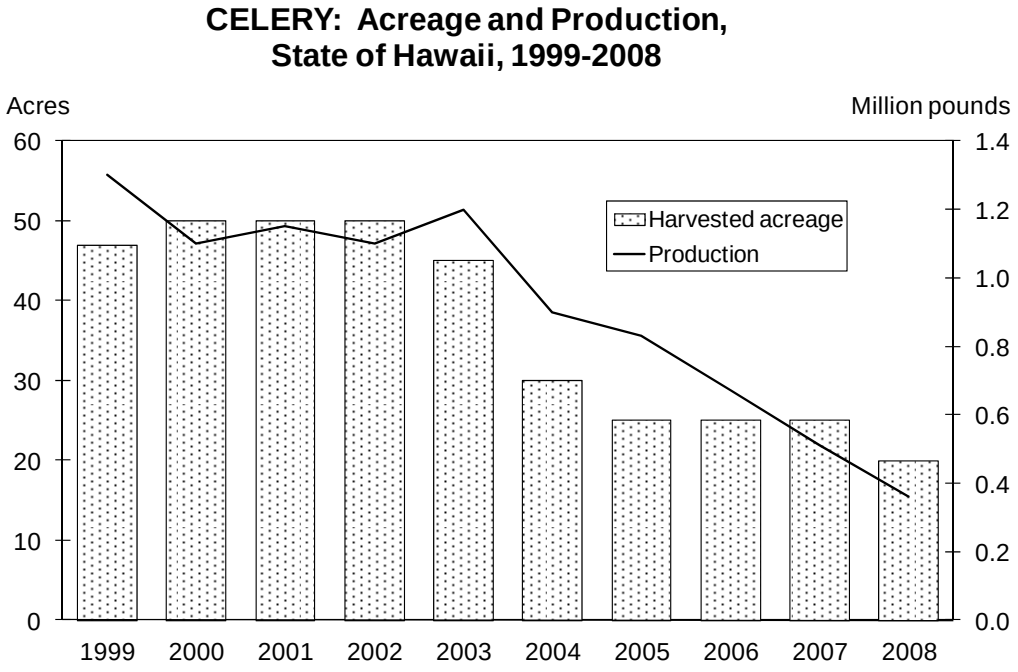
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2006	49	45	47	48	39	39	47	18	21	25	30	42	450
2007	42	46	42	43	44	42	39	30	21	21	30	40	440
2008	37	36	45	39	50	38	34	21	20	19	31	40	410
2009 [1]													420
2010 [1]													**410**
Production – *1,000 pounds*													
2006	928	1,000	1,239	1,109	935	912	956	464	451	499	754	853	10,100
2007	782	932	1,374	985	1,037	1,079	968	744	468	602	734	695	10,400
2008	681	728	1,509	989	1,004	764	737	530	515	530	637	776	9,400
2009 [1]													8,700
2010 [1]													**10,200**
Farm price – *cents per pound*													
2006	27.6	23.8	21.9	22.3	25.4	25.4	26.4	32.6	36.6	32.0	33.8	30.2	27.0
2007	29.7	36.2	33.8	27.1	25.3	20.5	24.0	24.0	30.4	33.9	34.8	31.5	29.0
2008	30.8	36.0	31.3	27.0	26.1	25.6	27.5	30.7	30.1	28.6	34.6	33.5	30.0
2009 [1]													34.0
2010 [1]													**30.0**

[1] Estimates not published due to staff reduction-in-force but combined and included in the State total.

CELERY: Acreage, Yield, Production, Price, and Value, State of Hawaii, 2006-2010

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State					
2006	25	26.8	670	37.0	248
2007	25	20.4	510	44.0	224
2008	20	18.0	360	38.0	137
2009 [1]					
2010 [1]					

[1] Beginning 2009, data series discontinued.



SWEET CORN

SWEET CORN: Acreage, Yield, Production, Price, and Value, State of Hawaii, 2006-2010

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- *1,000 pounds* ----------		*Cents per pound*	*1,000 dollars*
State					
2006	350	5.1	1,800	66.0	1,188
2007	450	5.3	2,400	62.0	1,488
2008	400	5.5	2,200	56.0	1,232
2009 [1]					
2010 [1]					

[1] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total on page 7.

SWEET CORN: Acreage, Production, and Price, State of Hawaii, 2006-2010

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2006	17	21	23	20	19	35	26	42	40	29	44	34	350
2007	24	25	28	35	51	58	28	48	25	37	56	35	450
2008	24	10	31	28	41	31	35	37	28	41	57	37	400
2009 [1]													
2010 [1]													
Production – *1,000 pounds*													
2006	86	79	61	123	85	189	147	248	215	160	209	198	1,800
2007	103	119	197	221	331	287	171	238	116	202	238	177	2,400
2008	117	77	144	222	298	225	235	234	132	171	183	162	2,200
2009 [1]													
2010 [1]													
Farm price – *cents per pound*													
2006	39.5	60.2	133.6	61.5	63.7	76.8	68.4	73.2	59.2	56.1	55.8	67.5	66.0
2007	67.8	70.7	71.9	65.0	57.3	64.7	66.3	61.6	67.9	57.7	54.5	49.6	62.0
2008	50.3	55.9	51.2	57.6	55.1	58.6	57.5	57.1	62.8	57.7	55.6	49.2	56.0
2009 [1]													
2010 [1]													

[1] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total on page 7.

CUCUMBERS: Acreage, Yield, Production, Price, and Value, by County, 2006-2010

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State					
2006	330	16.4	5,400	50.0	2,700
2007	310	16.1	5,000	50.0	2,500
2008	310	15.5	4,800	57.0	2,736
2009 [1]					
2010 [1]					
County:					
Hawaii/Kauai [2]					
2006	10	22.0	220	68.7	151
2007	10	14.0	140	82.5	116
2008	15	9.3	140	85.0	119
2009 [1]					
2010 [1]					
Honolulu					
2006	130	12.2	1,580	49.0	774
2007	110	16.4	1,800	49.0	882
2008	95	18.5	1,760	61.0	1,074
2009 [1]					
2010 [1]					
Maui					
2006	190	18.9	3,600	49.3	1,775
2007	190	16.1	3,060	49.1	1,502
2008	200	14.5	2,900	53.2	1,543
2009 [1]					
2010 [1]					

[1] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total on page 7.
[2] Kauai combined with Hawaii to avoid disclosure of individual operations.

CUCUMBERS: Acreage, Production, and Price, State of Hawaii, 2006-2010

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres [1]													
2006	26	25	23	20	25	29	31	25	29	27	25	25	330
2007	29	27	23	24	23	26	28	26	27	26	26	25	310
2008	23	21	25	27	27	27	27	27	27	27	27	25	310
2009 [2]													
2010 [2]													
Production – *1,000 pounds*													
2006	385	461	330	377	458	514	553	435	588	468	369	462	5,400
2007	430	345	358	435	431	499	423	436	447	490	384	322	5,000
2008	382	351	396	413	427	493	317	462	460	409	362	328	4,800
2009 [2]													
2010 [2]													
Farm price – *cents per pound*													
2006	50.7	52.0	59.2	59.9	45.2	37.4	42.0	48.6	50.4	50.1	56.8	56.3	50.0
2007	47.3	57.4	60.5	44.9	45.0	43.1	47.2	42.1	48.7	48.8	49.1	77.6	50.0
2008	60.4	57.1	59.9	52.4	49.6	52.8	58.1	52.4	54.9	61.6	65.5	64.6	57.0
2009 [2]													
2010 [2]													

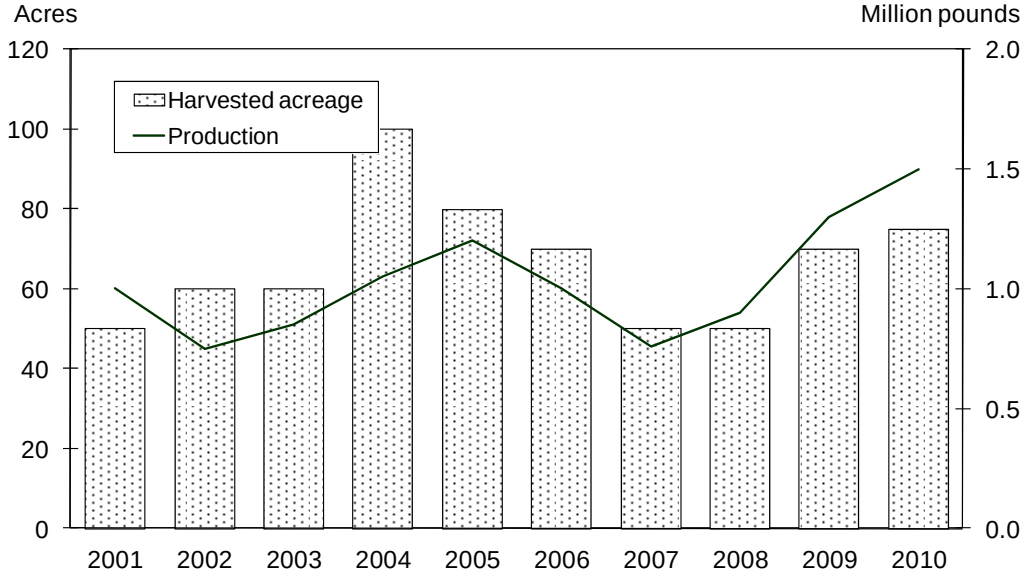
[1] Sum of monthly data exceeds total because harvest period longer than 1 month.
[2] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total on page 7.

EGGPLANT: Acreage, Yield, Production, Price, and Value, by County, 2006-2010

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State [1]					
2006	70	14.3	1,000	84.0	840
2007	50	15.2	760	92.0	699
2008	50	18.0	900	101.0	909
2009	70	18.6	1,300	95.0	1,235
2010	**75**	**20.0**	**1,500**	**98.0**	**1,463**
County:					
Hawaii/Kauai/Maui [2]					
2006	10	16.0	160	94.4	151
2007	10	12.0	120	102.5	123
2008 [3]					
2009 [3]					
2010 [3]					
Honolulu					
2006	60	14.0	840	82.0	689
2007	40	16.0	640	90.0	576
2008 [3]					
2009 [3]					
2010 [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.

EGGPLANT: Acreage and Production, State of Hawaii, 2001-2010



LETTUCES (HEAD, SEMI-HEAD): Acreage, Yield, Production, Price, and Value, by County, 2006-2010

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State [1]					
2006	120	10.0	1,200	70.0	840
2007	100	10.0	1,000	71.0	710
2008	90	11.1	1,000	75.0	750
2009	90	10.6	950	79.0	748
2010	**150**	**12.7**	**1,900**	**191.0**	**3,629**
County:					
Hawaii					
2006	60	12.8	770	60.0	462
2007	45	14.0	630	59.9	377
2008	40	14.8	590	61.0	360
2009 [2]					
2010 [2]					
Honolulu/Kauai/Maui [3]					
2006	60	7.2	430	87.8	378
2007	55	6.7	370	89.9	333
2008	50	8.2	410	95.1	390
2009 [2]					
2010 [2]					

[1] Sum of county estimates may not add to State total due to rounding.
[2] County estimates not published due to staff reduction-in-force but combined and included in the State total.
[3] Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

LETTUCES (HEAD, SEMI-HEAD): Acreage, Production, and Price, State of Hawaii, 2006-2010

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2006	9	12	9	11	9	10	9	10	12	12	8	9	120
2007	8	8	9	9	9	9	9	8	8	8	8	7	100
2008	9	7	9	6	7	5	8	8	8	8	8	7	90
2009 [1]													90
2010 [1]													**150**
Production – *1,000 pounds*													
2006	114	105	87	94	106	119	105	103	106	105	74	82	1,200
2007	78	82	99	100	98	96	91	77	68	84	76	51	1,000
2008	68	83	94	93	89	91	90	83	79	79	77	74	1,000
2009 [1]													950
2010 [1]													**1,900**
Farm price – *cents per pound*													
2006	70.0	72.9	65.7	66.8	66.0	66.7	68.2	69.4	75.2	72.2	74.9	72.9	70.0
2007	73.4	75.2	70.8	70.8	69.3	70.9	69.2	69.3	71.4	69.9	69.9	73.7	71.0
2008	70.0	68.9	69.2	70.9	69.3	76.4	77.3	78.8	81.5	83.2	79.8	75.8	75.0
2009 [1]													79.0
2010 [1]													**191.0**

[1] Estimates not published due to staff reduction-in-force but combined and included in the State total.

DRY ONIONS: Acreage, Yield, Production, Price, and Value, by County, 2006-2010

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State [1]					
2006	140	10.0	1,400	145.0	2,030
2007	160	8.8	1,400	120.0	1,680
2008	160	8.8	1,400	115.0	1,610
2009	150	10.0	1,500	116.0	1,740
2010	**140**	**13.6**	**1,900**	**117.0**	**2,223**
County:					
Hawaii/Honolulu/Kauai [2]					
2006	30	4.3	130	86.0	112
2007	60	3.3	200	78.0	156
2008	70	4.3	300	78.2	235
2009 [3]					
2010 [3]					
Maui					
2006	110	11.5	1,270	151.0	1,918
2007	100	12.0	1,200	127.0	1,524
2008	90	12.2	1,100	125.0	1,375
2009 [3]					
2010 [3]					

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

DRY ONIONS: Acreage, Production, and Price, State of Hawaii, 2006-2010

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2006	6	4	11	8	28	23	8	21	8	6	9	8	140
2007	6	7	8	11	30	22	12	7	11	26	12	8	160
2008	2	6	16	56	15	21	8	5	4	7	12	8	160
2009 [1]													150
2010 [1]													**140**
Production – *1,000 pounds*													
2006	40	61	69	94	213	253	148	240	84	64	75	59	1,400
2007	78	88	93	148	233	158	178	113	53	113	113	32	1,400
2008	27	32	112	227	237	244	74	78	42	62	158	107	1,400
2009 [1]													1,500
2010 [1]													**1,900**
Farm price – *cents per pound*													
2006	183.1	174.0	175.9	188.9	179.9	146.5	125.9	113.2	105.4	112.9	131.7	135.4	145.0
2007	140.3	154.9	156.3	149.6	118.6	107.2	96.1	89.0	84.0	93.0	128.3	174.2	120.0
2008	127.5	151.5	117.3	111.8	130.8	109.0	63.5	85.6	111.9	114.1	121.6	132.8	115.0
2009 [1]													116.0
2010 [1]													**117.0**

[1] Estimates not published due to staff reduction-in-force but combined and included in the State total.

GREEN ONIONS: Acreage, Yield, Production, Price, and Value, by County, 2006-2010

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State [1]					
2006	130	11.5	1,500	100.0	1,500
2007	135	10.4	1,400	114.0	1,596
2008	125	12.8	1,600	124.0	1,984
2009	120	11.7	1,400	129.0	1,810
2010	**135**	**11.1**	**1,500**	**148.0**	**2,227**
County:					
Hawaii/Kauai/Maui [2]					
2006	15	18.0	270	113.8	307
2007	15	13.3	200	137.8	276
2008	20	15.0	300	145.5	437
2009 [3]					
2010 [3]					
Honolulu					
2006	115	10.7	1,230	97.0	1,193
2007	120	10.0	1,200	110.0	1,320
2008	105	12.4	1,300	119.0	1,547
2009 [3]					
2010 [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] County estimates not published due to staff reduction-in-force but combined and included in the State total.

GREEN ONIONS: Acreage, Production, and Price, State of Hawaii, 2006-2010

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2006	12	10	11	9	9	9	12	12	11	11	11	13	130
2007	10	13	12	13	11	11	11	10	11	11	11	11	135
2008	11	9	10	10	10	11	11	10	10	11	11	11	125
2009 [1]													120
2010 [1]													**135**
Production – *1,000 pounds*													
2006	123	129	114	58	135	143	125	135	117	128	167	126	1,500
2007	109	136	122	122	124	106	105	117	117	119	124	99	1,400
2008	128	131	143	124	150	129	140	132	142	141	126	114	1,600
2009 [1]													1,400
2010 [1]													**1,500**
Farm price – *cents per pound*													
2006	98.8	101.4	108.4	132.8	104.9	91.7	92.0	91.0	90.3	92.3	107.2	106.5	100.0
2007	137.5	112.4	107.6	104.4	96.2	112.0	104.9	113.1	119.1	113.8	113.2	140.5	114.0
2008	138.8	134.6	119.9	114.9	113.8	113.8	118.8	128.5	129.1	126.2	122.1	129.1	124.0
2009 [1]													129.0
2010 [1]													**148.0**

[1] Estimates not published due to staff reduction-in-force but combined and included in the State total.

GREEN PEPPERS

GREEN PEPPERS: Acreage, Yield, Production, Price, and Value, State of Hawaii, 2006-2010

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- *1,000 pounds* ----------		*Cents per pound*	*1,000 dollars*
2006	260	10.8	2,800	71.0	1,988
2007	160	11.3	1,800	69.0	1,242
2008 [1]					
2009 [1]					
2010 [1]					

[1] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total on page 7.

GREEN PEPPERS: Acreage, Production, and Price, State of Hawaii, 2006-2010

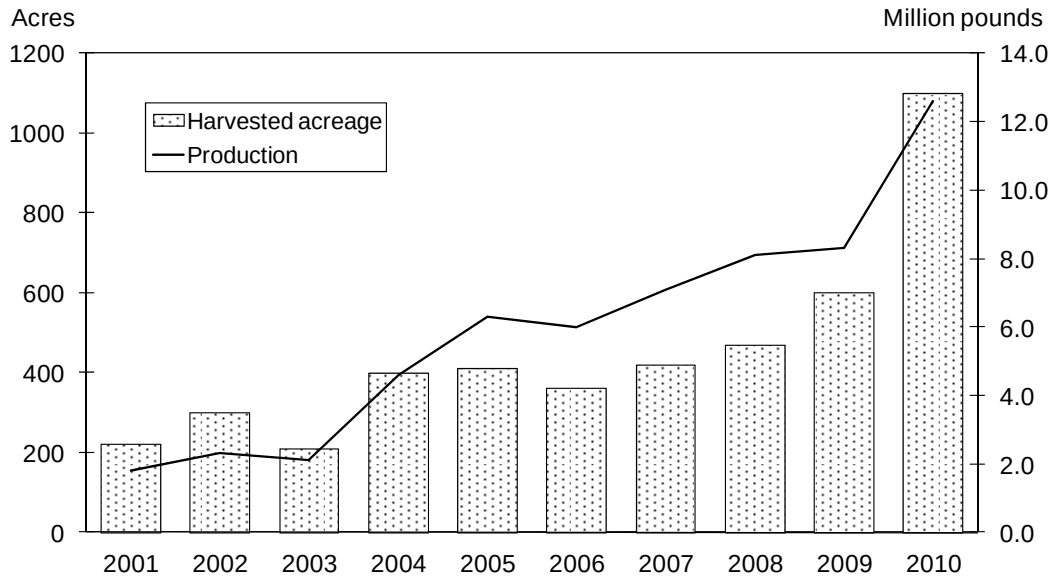
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres [1]													
2006	22	22	25	23	21	21	21	23	23	25	22	22	260
2007	21	21	21	21	22	14	1	2	5	2	11	19	160
2008 [2]													
2009 [2]													
2010 [2]													
Production – *1,000 pounds*													
2006	237	270	255	310	225	226	244	203	223	196	182	229	2,800
2007	200	248	239	252	257	188	5	30	39	15	124	203	1,800
2008 [2]													
2009 [2]													
2010 [2]													
Farm price – *cents per pound*													
2006	82.3	75.1	76.1	72.3	73.8	68.9	68.3	68.2	65.1	67.1	66.5	64.3	71.0
2007	67.4	78.5	74.6	62.0	63.0	60.6	73.0	80.0	80.0	80.0	60.9	76.9	69.0
2008 [2]													
2009 [2]													
2010 [2]													

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.
[2] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total on page 7.

SWEET POTATOES: Acreage, Yield, Production, Price, and Value, by County, 2006-2010

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State					
2006	360	16.7	6,000	74.0	4,440
2007	420	16.9	7,100	51.0	3,621
2008	470	17.2	8,100	59.0	4,780
2009	600	13.8	8,300	65.0	5,413
2010	**1,100**	**11.5**	**12,600**	**52.0**	**6,510**

SWEET POTATO: Acreage and Production, State of Hawaii, 2001-2010



ROMAINE

ROMAINE: Acreage, Yield, Production, Price, and Value, by County, 2006-2010

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State [1]					
2006	110	11.8	1,300	63.0	819
2007	100	12.0	1,200	67.0	804
2008	90	11.1	1,000	59.0	590
2009	100	8.0	800	58.0	463
2010	**90**	**15.6**	**1,400**	**67.0**	**932**
County:					
Hawaii/Honolulu [2]					
2006	90	11.4	1,030	63.3	652
2007	80	11.8	940	69.8	656
2008	70	11.4	800	61.0	488
2009 [3]					
2010 [3]					
Maui					
2006	20	13.5	270	62.0	167
2007	20	13.0	260	57.0	148
2008	20	10.0	200	51.0	102
2009 [3]					
2010 [3]					

[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.
[3] County estimates not published due to staff reduction-in-force but combined and included in the State total.

ROMAINE: Acreage, Production, and Price, State of Hawaii, 2006-2010

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2006	11	17	12	9	7	8	9	8	9	8	7	5	110
2007	6	8	9	9	9	9	10	7	8	8	9	8	100
2008	8	8	7	9	9	5	6	6	8	7	9	8	90
2009 [1]													100
2010 [1]													**90**
Production – *1,000 pounds*													
2006	149	144	103	96	123	106	111	113	97	100	84	74	1,300
2007	83	79	109	105	102	103	115	118	100	107	100	79	1,200
2008	66	80	103	94	88	86	83	87	83	86	74	70	1,000
2009 [1]													800
2010 [1]													**1,400**
Farm price – *cents per pound*													
2006	64.2	61.8	63.9	62.2	61.3	61.9	61.8	61.8	66.7	64.2	61.7	66.6	63.0
2007	101.5	67.2	73.1	65.2	57.8	61.9	61.9	61.9	70.4	62.2	64.0	63.8	67.0
2008	69.2	64.8	61.8	61.7	59.9	45.2	45.3	52.6	59.4	62.0	64.9	65.1	59.0
2009 [1]													58.0
2010 [1]													**67.0**

[1] Estimates not published due to staff reduction-in-force but combined and included in the State total.

ITALIAN SQUASH: Acreage, Yield, Production, Price, and Value, by County, 2006-2010

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds	----------	Cents per pound	1,000 dollars
State [1]					
2006	175	6.3	1,100	64.0	704
2007	180	6.7	1,200	67.0	804
2008	170	8.7	1,480	60.0	888
2009	170	6.9	1,170	62.0	731
2010	**180**	**5.9**	**1,070**	**67.0**	**721**
County:					
Hawaii/Honolulu/Kauai [2]					
2006	110	5.8	635	66.9	425
2007	110	7.1	780	70.7	551
2008	120	9.4	1,130	60.0	678
2009 [3]					
2010 [3]					
Maui					
2006	65	7.2	465	60.0	279
2007	70	6.0	420	60.0	252
2008	50	7.0	350	60.0	210
2009 [3]					
2010 [3]					

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

TARO: Number of Farms, Acreage, Marketings, Price, and Value, by County, 2006-2010

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	
	Number	*Acres*			*1,000 pounds*			*Cents per pound*			*1,000 dollars*
State											
2006	105	360	20	380	100	4,400	4,500	56.8	65.5	57.0	2,565
2007	105	355	25	380	100	3,900	4,000	59.2	50.5	59.0	2,360
2008	105	370	20	390	100	4,200	4,300	62.0	61.5	62.0	2,666
2009	110	415	30	445	100	3,900	4,000	60.9	62.0	61.0	2,440
2010	**115**	**440**	**35**	**475**	**100**	**3,800**	**3,900**	**63.8**	**86.5**	**64.5**	**2,516**
County:											
Hawaii											
2006	25	55	10	65	70	220	290	61.0	65.5	62.1	180
2007	25	50	10	60	70	220	290	62.0	52.4	59.7	173
2008	25	45	5	50	30	160	190	67.0	65.0	66.7	127
2009 [2]											
2010 [2]											
Honolulu/Maui [3]											
2006	35	80	10	90	30	880	910	62.5	65.5	62.6	570
2007	35	55	15	70	30	880	910	63.4	46.0	61.9	563
2008	35	75	10	85	50	640	690	71.3	62.0	70.6	487
2009 [2]											
2010 [2]											
Kauai											
2006	45	225	*	225	*	3,300	3,300	55.0	[4]	55.0	1,815
2007	45	250	*	250	*	2,800	2,800	58.0	[4]	58.0	1,624
2008	45	250	5	255	20	3,400	3,420	60.0	[4]	60.0	2,052
2009 [2]											
2010 [2]											

* = 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] County estimates not published due to staff reduction-in-force but combined and included in the State total.
[3] Maui combined with Honolulu to avoid disclosure of individual operations.
[4] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

TOMATOES: Acreage, Yield, Production, Price, and Value, State of Hawaii, 2006-2010

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- *1,000 pounds* ----------		*Cents per pound*	*1,000 dollars*
2006	700	21.0	14,700	77.0	11,319
2007	740	19.3	14,300	69.0	9,867
2008 [1]					
2009 [1]					
2010 [1]					

[1] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total on page 7.

TOMATOES: Acreage, Production, and Price, State of Hawaii, 2006-2010

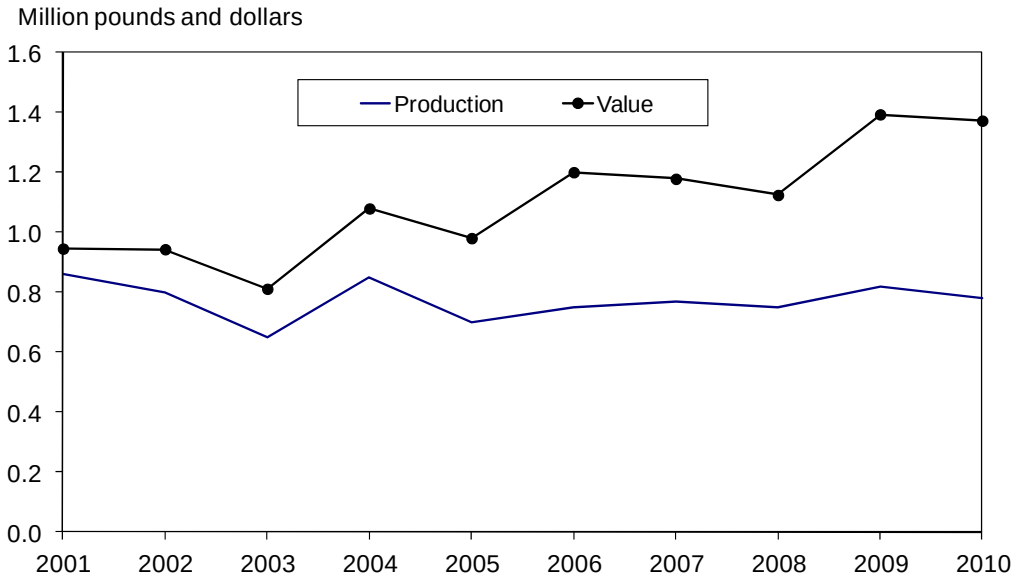
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres [1]													
2006	68	71	70	69	62	57	58	58	58	66	67	66	700
2007	69	71	71	65	60	62	58	58	56	57	57	56	740
2008 [2]													
2009 [2]													
2010 [2]													
Production – *1,000 pounds*													
2006	1,286	1,181	986	1,158	956	911	1,641	1,444	1,570	1,254	1,316	997	14,700
2007	967	946	1,069	1,384	1,356	1,452	1,264	1,295	1,246	1,137	1,109	1,075	14,300
2008 [2]													
2009 [2]													
2010 [2]													
Farm price – *cents per pound*													
2006	77.9	77.1	74.1	74.8	77.6	80.4	62.7	63.3	80.8	98.7	90.6	69.6	77.0
2007	77.4	81.0	70.8	64.4	67.4	66.2	57.3	63.2	65.5	68.3	72.1	82.9	69.0
2008 [2]													
2009 [2]													
2010 [2]													

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.
[2] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total on page 7.

WATERCRESS: Acreage, Production, Price, and Value, State of Hawaii, 2006-2010

Year	Acreage in crop	Production	Farm price	Value of sales
	Acres	*1,000 pounds*	*Cents per pound*	*1,000 dollars*
2006	35	750	160.0	1,201
2007	35	770	153.0	1,179
2008	35	750	150.0	1,125
2009	35	820	170.0	1,394
2010	**35**	**780**	**176.0**	**1,373**

WATERCRESS: Production and Farm Value, State of Hawaii, 2001-2010



WATERMELONS: Acreage, Yield, Production, Price, and Value, State of Hawaii, 2006-2010

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- *1,000 pounds* ----------		*Cents per pound*	*1,000 dollars*
State					
2006	590	17.6	10,400	28.0	2,912
2007	540	24.3	13,100	30.0	3,930
2008 [1]					
2009 [1]					
2010 [1]					

[1] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total on page 7.

OTHER VEGETABLES: Acreage, Yield, Production, Price, and Value, State of Hawaii, 2006-2010

Crop and year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		*Cents per pound*	*1,000 dollars*
Bittermelon					
2006	25	7.2	180	80.0	144
2007	20	7.5	150	82.0	123
2008	20	7.0	140	90.0	126
2009	20	18.0	360	99.0	358
2010	**20**	**7.0**	**140**	**102.0**	**143**
Broccoli					
2006	60	5.5	330	84.0	277
2007	80	4.9	390	93.0	363
2008	80	4.5	360	97.0	349
2009	115	2.6	300	80.0	240
2010 [1]					
Cabbage, mustard					
2006	115	12.2	1,400	58.0	812
2007	105	13.3	1,400	63.0	882
2008	95	13.7	1,300	70.0	910
2009	95	13.7	1,300	73.0	952
2010	**100**	**12.0**	**1,200**	**65.0**	**775**
Pumpkins					
2006	25	11.6	290	60.0	174
2007	40	11.8	470	52.0	244
2008	30	3.0	90	66.0	59
2009 [1]					
2010 [1]					
Squash, Oriental (Hyotan and Togan)					
2006	40	10.0	400	46.0	184
2007	40	12.5	500	44.0	220
2008	40	8.8	350	62.0	217
2009	40	8.5	340	54.0	185
2010	**40**	**7.3**	**290**	**64.0**	**186**

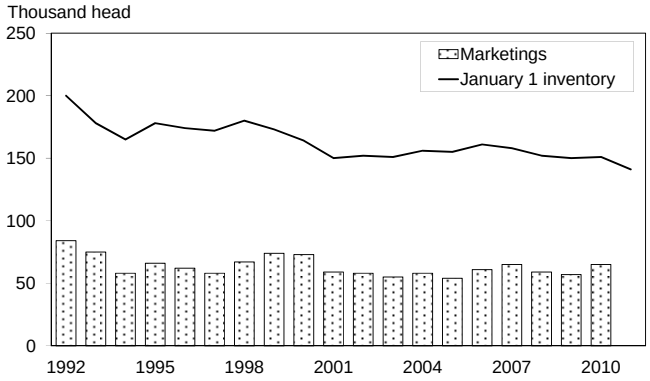
[1] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total on page 7.

- **Cattle and calves**

State's January 1 inventory down 7 percent

The inventory of cattle and calves on Hawaii ranches totaled 141,000 head on January 1, 2011. This represents a 7 percent decrease from 2010. While some ranchers fared relatively well, the majority of ranches have seen a decline in herd numbers and faced difficulties associated with lack of rainfall, poorer pasture conditions, and high costs of feed and water.

CATTLE: Inventory and Marketings, State of Hawaii, 1992-2011



Local cattle slaughtered up 14 percent

The number of cattle slaughtered during 2010 totaled 12,600 head. This is an increase of 14 percent from the previous year. The total slaughtered dressed weight is estimated at 7.5 million, an increase of 8 percent from 2009. This increase in total slaughter weight is due to higher monthly dressed weight totals during the months of April through November and increased head slaughter numbers.

Cattle marketings slightly lower

Marketings during 2010 totaled 40.6 million pounds (live weight), down slightly compared to previous year's total. This decline was attributed to lower average live weight which offset the increased head sold count. A total of 19,000 head of cattle were marketed in 2010 which is the same level as previous year. Calves marketed in 2010, at 46,000 head, were 8,000 or 21 percent above 2009.

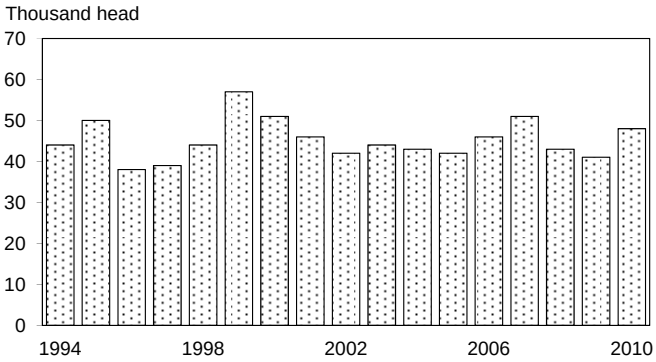
Value of sales up 14 percent

The value of all cattle and calves marketed in 2010 totaled $33.0 million, up 14 percent from 2009. The annual average price received by ranchers for all cattle and calves marketed in 2010 was $81.10 per hundredweight (live weight) up $10.00 or 14 percent from 2009.

Exports of cattle and calves up 17 percent

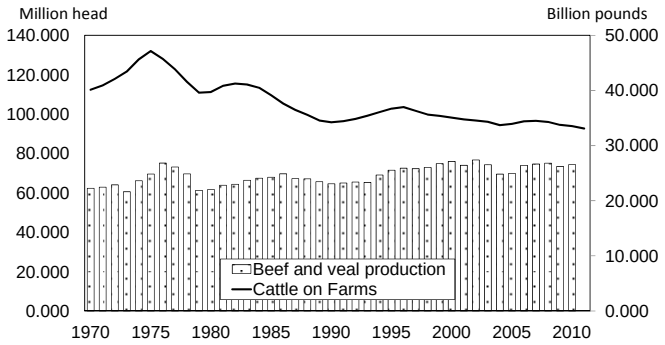
Hawaii ranchers exported 48,000 head of cattle and calves in 2010, up 17 percent from 2009. This export level is the second highest total in the past ten years. Calves (livestock weighting less than 500 pounds) accounted for the bulk of the exports at 46,000 head in 2010 compared to 2,000 head of cattle (cattle weighing 500 pounds or more) that were exported from Hawaii.

CATTLE AND CALVES: Exports, State of Hawaii, 1994-2010



U.S. cattle inventory down 1 percent
All cattle and calves in the United States as of January 1, 2011, totaled 92.6 million head, 1 percent below the 93.9 million on January 1, 2010. This is the lowest January 1 inventory of all cattle and calves since the 91.2 million on hand in 1958. The 2010 calf crop was estimated at 35.7 million head, down 1 percent from 2009. This is the smallest calf crop since the 34.9 million born during 1950.

CATTLE: Beef and Veal Production and Cattle on Farms, United States, 1970-2010



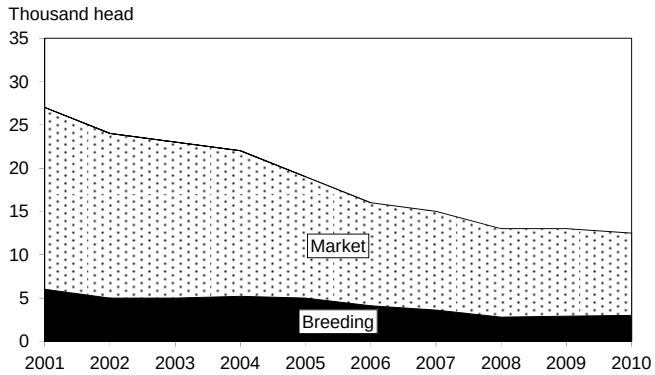
♦ **Milk**
Production up 19 percent
Hawaii's dairy cows produced 25.3 million pounds of milk in 2010, up 19 percent from 2009. This is the second increase when measured to the previous year. Prior to 2009, milk production levels fell each year going back to 1998.

The milk cow herd increased 27 percent to an average of 1,900 head. Cows produced an average of 13,316 pounds of milk in 2010, 6 percent less per cow than in 2009.

In 2010, milk producers received an average return of $35.00 per hundredweight for milk sold, down 1 percent from 2009. Revenues at the farm gate level rose 17 percent to a total of $8.8 million in 2010.

♦ **Hogs and Pigs**
Statewide inventory down 4 percent
The Hawaii inventory of total hogs and pigs on December 1, 2010 at 12,500 head, was down 500 or 4 percent from 2009. Inventory breakdowns show breeding hogs totaled 3,000, up 3 percent from the 2009 inventory. The 9,500 head of market hogs and pigs was down 6 percent from the previous year. Market hogs and pigs made up 76 percent of the State's total hog and pig inventory. Pigs less than 60 pounds made up the majority of the December inventory on hand, totaling 4,000 head, or 42 percent of the market hog and pig group. Pigs weighing 60 to 119 pounds are estimated at 2,800 head. Hogs weighing 120 to 179 pounds totaled 1,700 head. The remaining 1,000 market hogs were in the 180 pound and over category.

HOGS AND PIGS: Inventory by Classes, State of Hawaii, 2001-2010



Hog marketings increased
Hog marketings totaled 3.8 million pounds (live weight) in 2010, up 21 percent from 2009.

Value of hog sales up 22 percent
Total value of hog sales increased 22 percent to $3.7 million in 2010. The average farm price increased to $97.60 per hundredweight (live weight), up $0.80 hudredweight above the 2009 average price of $96.80.

CATTLE AND CALVES: January 1 Inventory by Sex Classes and Weight, by County, 2007-2011

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 replace-ments	Milk cow replace-ments	Other			
	1,000 head										
State [1]											
2007	158	89	85.2	3.8	21	15	1	5	8	5	35
2008	152	85	82.7	2.3	20	14	1	5	8	5	34
2009	150	86	84.4	1.6	19	13	1	5	8	5	32
2010	151	83	81.2	1.8	19	12	1	6	8	5	36
2011	**141**	**81**	**79.0**	**2.0**	**17**	**11**	**1**	**5**	**8**	**5**	**30**
County:											
Hawaii											
2007	117.2	67.6	65.4	2.2	15.5	11.9	.9	2.7	3.9	3.8	26.4
2008	109.1	63.7	61.9	1.8	12.8	10.1	.5	2.2	3.6	3.2	25.8
2009	109.1	66.1	64.5	1.6	12.2	8.9	1.0	2.3	3.7	3.4	23.7
2010 [2]											
2011 [2]											
Honolulu											
2007	7.1	4.1	2.5	1.6	.9	.5	.3	.1	.3	.1	1.7
2008	5.6	2.7	2.3	.4	1.0	.8	0	.2	.5	.1	1.3
2009	4.4	2.2	2.2	*	.7	.5	0	.2	.4	.1	1.0
2010 [2]											
2011 [2]											
Kauai											
2007	12.0	5.8	5.8	*	1.7	.9	0	.8	1.0	.4	3.1
2008	12.5	5.9	5.9	*	2.2	1.4	0	.8	1.0	.4	3.0
2009	13.3	6.3	6.3	*	2.3	1.4	0	.9	1.0	.5	3.2
2010 [2]											
2011 [2]											
Maui											
2007	21.7	11.5	11.5	*	2.9	1.9	0	1.0	2.6	.8	3.9
2008	24.8	12.7	12.6	.1	3.9	2.0	0	1.9	2.9	1.0	4.3
2009	23.2	11.4	11.4	*	3.8	2.2	0	1.6	2.9	1.0	4.1
2010 [2]											
2011 [2]											

* = Less than 50.
[1] Sum of county estimates may not add to State total due to rounding.
[2] County estimates not published due to staff reduction-in-force but combined and included in the State total.

CATTLE AND CALVES: Number of Operations, Number and Pounds Sold, Price, and Value, by County, 2006-2010

Year	Operations	Number sold [1 2]	Pounds sold (live weight) [3]	Farm price (live weight) [4]	Value of sales [2]
	Number	*1,000 head*	*1,000 pounds*	*Dollars per hundredweight*	*1,000 dollars*
State					
2006	800	61	34,510	76.70	26,452
2007	1,100	65	36,160	72.40	26,196
2008	1,000	59	35,920	67.70	24,305
2009	1,000	57	40,700	71.10	28,945
2010	**1,000**	**65**	**45,560**	**81.10**	**32,985**
County:					
Hawaii					
2006	470	46.4	24,911	79.50	19,809
2007	730	50.7	25,893	76.00	19,676
2008	680	43.5	23,697	69.60	16,493
2009 [5]					
2010 [5]					
Honolulu					
2006	50	3.1	2,360	64.20	1,515
2007	60	2.5	1,270	74.20	942
2008	50	.8	615	58.20	358
2009 [5]					
2010 [5]					
Kauai					
2006	120	3.9	2,683	64.30	1,725
2007	130	3.1	1,954	67.50	1,318
2008	120	5.2	2,529	77.50	1,959
2009 [5]					
2010 [5]					
Maui					
2006	160	7.6	4,556	74.70	3,403
2007	180	8.7	7,043	60.50	4,260
2008	150	9.5	9,079	60.50	5,495
2009 [5]					
2010 [5]					

[1] Includes custom slaughter for home use on farms where produced and out-of-State sales of cattle and calves, but excludes inter-farm sales.
[2] Sum of county estimates may not add to State total due to rounding.
[3] Excludes custom slaughter for use on farms where produced.
[4] Prices are equivalent delivered slaughterhouse for sales on county of production and delivered shipper's dock for interisland and out-of-State sales.
[5] County estimates not published due to staff reduction-in-force but combined and included in the State total.

CATTLE: Number Sold, Pounds, Price, and Value, State of Hawaii, 2006-2010

Year	Number sold [1]	Pounds sold (live weight) [2]	Farm price (live weight)	Value of sales
	1,000 head	*1,000 pounds*	*Dollars per hundredweight*	*1,000 dollars*
2006	20	17,290	52.40	9,060
2007	17	15,520	49.10	7,620
2008	18	18,700	51.70	9,668
2009	19	19,800	53.30	10,553
2010	**19**	**19,800**	**48.20**	**9,544**

[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, 2006-2010

Year	Number sold [1]	Pounds sold (live weight) [2]	Farm price (live weight)	Value of sales
	1,000 head	*1,000 pounds*	*Dollars per hundredweight*	*1,000 dollars*
2006	41	17,220	101.00	17,392
2007	48	20,640	90.00	18,576
2008	41	17,220	85.00	14,637
2009	38	20,900	88.00	18,392
2010	**46**	**25,760**	**91.00**	**23,441**

[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, 2006-2010

Year	Inventory beginning January 1	Calf crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory January 1 following year
				1,000 head			
2006	161	65	*	61	1	6	158
2007	158	65	*	65	1	5	152
2008	152	65	*	59	1	7	150
2009	150	65	*	57	1	6	151
2010	**151**	**65**	*****	**65**	**2**	**9**	**141**

* = Less than 500.

CATTLE AND CALVES: Exports by Weight and Sex, State of Hawaii, 2006-2010

Year	Total	By weight category		By sex class		
		Cattle [1]	Calves [2]	Steers	Heifers	Others
			1,000 head			
2006	46	5	41	27	17	2
2007	51	3	48	26	23	2
2008	43	2	41	23	19	1
2009	41	3	38	23	18	*
2010	**48**	**2**	**46**	**24.5**	**23**	**.5**

* = Less than 500.
[1] 500 pounds or more.
[2] 499 pounds or less.

CATTLE: Commercial Slaughter and Farm Price, State of Hawaii, 2006-2010 [1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Number of head [2] – *1,000 head*													
2006	.8	.8	1.0	.8	1.0	.9	.9	1.0	.9	.9	.7	.8	10.5
2007	.9	.8	.9	.9	1.0	.9	.9	1.1	.9	1.0	.9	.8	11.1
2008	1.0	.8	.9	1.0	1.0	.9	1.1	1.0	.9	1.0	.9	.9	[3]11.4
2009	.9	.9	1.0	.9	.9	.9	1.0	.9	.9	.9	.8	1.0	11.1
2010	**.9**	**1.0**	**1.1**	**1.0**	**1.0**	**1.1**	**1.1**	**1.2**	**1.1**	**1.0**	**1.0**	**1.1**	**12.6**
Pounds slaughtered, dressed weight [2 4] – *1,000 pounds*													
2006	447	446	567	455	556	525	539	610	535	520	438	450	6,088
2007	533	476	540	508	582	557	516	610	536	585	495	452	6,390
2008	658	518	569	613	612	585	[3]669	611	583	646	534	571	[3]7,169
2009	570	601	654	582	553	552	637	593	573	520	489	643	6,968
2010	**564**	**590**	**638**	**594**	**603**	**630**	**657**	**727**	**670**	**592**	**620**	**635**	**7,520**
Average farm price, dressed weight – *cents per pound*													
2006	77.0	82.5	80.5	80.0	81.0	79.5	78.0	80.5	79.5	79.0	82.5	81.5	80.0
2007	85.0	81.0	80.0	83.5	80.0	82.0	83.5	83.0	82.5	84.5	85.0	83.5	83.0
2008	87.0	88.0	90.0	89.0	90.0	90.5	91.5	90.0	92.5	90.0	95.0	96.0	90.5
2009	93.0	92.5	94.0	95.0	92.0	96.0	100.0	94.0	94.0	95.0	99.0	95.0	95.1
2010	**88.0**	**94.0**	**96.5**	**96.0**	**96.0**	**96.0**	**94.0**	**93.0**	**97.0**	**97.5**	**102.0**	**91.5**	**95.1**

[1] Includes custom slaughter for home use.
[2] Sum of monthly estimates may not add to annual total due to rounding.
[3] Revised.
[4] 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, 1998-2010 [1]

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* ----------	
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	5,040	47.8	87.0	2,877	29.0	53.0
2003	3,067	50.1	91.5	1,891	27.6	50.5
2004	6,023	52.4	95.5	1,652	27.7	50.5
2005	4,505	55.2	100.5	1,086	27.8	50.5
2006	5,553	60.3	110.0	1,741	29.2	53.0
2007	5,321	56.6	103.0	1,654	29.2	53.2
2008	[3] 5,519	58.2	106.0	1,921	29.2	53.2
2009	4,975	59.7	109.0	2,218	29.5	53.7
2010	**5,194**	**60.0**	**109.3**	**2,217**	**29.6**	**53.9**

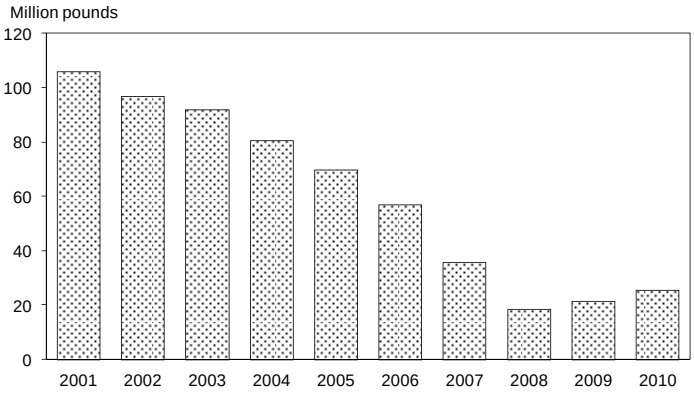
[1] Excludes out-of-State shipments.
[2] Live weight average price is derived by dividing the unrounded average dressed weight price by 1.8215 or multiplying by 0.549.
[3] Revised.

MILK: Number of Operations, Number of Milk Cows, Production, Sales, Price, and Value, by County, 2006-2010

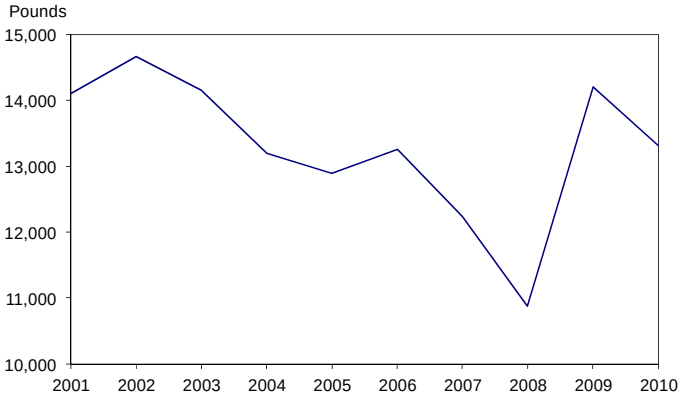
Year	Operations with milk cows [1]	Licensed dairy herds [2]	Annual average milk cows	Milk per cow	Production [3]	Sold [3]	Average price [4]	Value of sales
	Number	Number	Number	Pounds	Million pounds	Million pounds	Dollars per hundredweight	1,000 dollars
State								
2006	30	5	4,300	13,256	57.0	55.8	26.00	14,508
2007	15	5	2,900	12,241	35.5	34.3	28.20	9,673
2008	15	2	1,700	10,882	18.5	17.9	30.50	5,460
2009	15	2	1,500	14,200	21.3	21.1	35.50	7,491
2010	**15**	**2**	**1,900**	**13,316**	**25.3**	**25.0**	**35.00**	**8,750**
County:								
Hawaii/Kauai/Maui [5]								
2006	24	2	6	6	6	6	6	6
2007	12	2	6	6	6	6	6	6
2008	12	2	6	6	6	6	6	6
2009 [6]								
2010 [6]								
Honolulu								
2006	6	3	6	6	6	6	6	6
2007	3	3	6	6	6	6	6	6
2008	3	0	6	6	6	6	6	6
2009 [6]								
2010 [6]								

[1] An operation is any place having one or more head of milk cows, excluding cows used to nurse calves, on hand at any time during the year. Includes commercially licensed dairy herds.
[2] Average number of dairy farms licensed to sell milk. Prior to 2008, rounded to the nearest five at the State level.
[3] Difference between "Production" and "Sold" is milk used on farms for human consumption, fed to calves or other uses.
[4] Rounded to the nearest dime.
[5] Kauai and Maui combined with Hawaii to avoid disclosure of individual operations.
[6] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

MILK: Annual milk production, State of Hawaii, 2001-2010



MILK: Annual milk per cow, State of Hawaii, 2001-2010



MILK: Number of Cows, Milk Production, Price, and Milkfat, State of Hawaii, 2006-2010

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or Average [1]
Average number of milk cows on hand during month – *1,000 head*													
2006	4.6	4.4	4.4	4.5	4.3	4.3	4.3	4.2	4.2	4.1	3.9	3.8	4.3
2007	3.8	3.7	3.3	3.2	3.2	2.7	2.7	2.6	2.6	2.5	2.3	2.3	2.9
2008	2.2	1.9	1.8	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7
2009	1.6	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.5
2010	**1.9**	**1.9**	**1.9**	**1.9**	**1.9**	**1.8**	**1.8**	**1.9**	**1.9**	**1.9**	**1.9**	**2.0**	**1.9**
Average monthly production per all cows in herd – *pounds*													
2006	1,150	1,090	1,180	1,065	1,185	1,140	1,165	1,145	1,050	1,025	1,025	1,185	13,256
2007	1,180	1,000	1,200	1,110	1,020	1,080	1,000	970	860	920	840	840	12,241
2008	770	740	890	880	940	940	940	940	880	940	940	1,130	10,882
2009	1,190	1,070	1,200	1,190	1,200	1,200	1,200	1,200	1,070	1,070	1,060	1,250	14,200
2010	**1,100**	**1,090**	**1,210**	**1,140**	**1,200**	**1,300**	**1,300**	**1,160**	**990**	**1,055**	**1,135**	**1,155**	**13,316**
Milk production – *million pounds*													
2006	5.3	4.8	5.2	4.8	5.1	4.9	5.0	4.8	4.4	4.2	4.0	4.5	57.0
2007	4.4	3.8	3.9	3.6	3.3	2.8	2.7	2.5	2.2	2.2	2.1	2.0	35.5
2008	[2]1.8	1.4	[2]1.5	1.5	1.6	1.5	1.5	1.5	1.4	1.5	1.5	1.8	18.5
2009	1.9	1.6	1.8	1.9	1.8	1.8	1.8	1.8	1.6	1.6	1.7	2.0	21.3
2010	**2.0**	**2.0**	**2.1**	**2.1**	**2.0**	**2.2**	**2.5**	**2.1**	**2.0**	**2.0**	**2.1**	**2.2**	**25.3**
Average price for milk sold to plants – *dollars per hundredweight*													
2006	26.80	26.20	25.50	25.10	24.90	24.80	24.90	26.40	26.70	26.90	27.00	26.90	26.00
2007	26.80	26.90	27.00	27.10	27.40	27.70	29.90	29.90	30.00	29.80	30.00	30.00	28.20
2008	29.80	29.50	29.30	29.20	29.40	29.40	29.40	29.50	29.50	29.50	35.30	35.40	30.50
2009	35.40	35.40	35.40	35.50	35.40	35.40	35.40	35.40	35.50	35.60	35.60	35.60	35.50
2010	**35.50**	**35.50**	**34.90**	**34.90**	**34.50**	**34.40**	**34.80**	**35.10**	**35.40**	**35.50**	**35.10**	**34.90**	**35.00**
Average milkfat for milk sold to plants – *percent*													
2006	3.37	3.38	3.39	3.41	3.36	3.30	3.37	3.33	3.37	3.38	3.34	3.37	3.36
2007	3.35	3.43	3.40	3.33	3.33	3.37	3.41	3.48	3.45	3.47	3.48	3.46	3.40
2008	3.40	3.47	3.20	3.27	3.29	3.37	3.37	3.44	3.50	3.54	3.36	3.47	3.39
2009	3.49	3.41	3.50	3.59	3.50	3.47	3.50	3.54	3.61	3.70	3.71	3.61	3.55
2010	**3.63**	**3.57**	**3.58**	**3.60**	**3.53**	**3.51**	**3.49**	**3.46**	**3.49**	**3.66**	**3.66**	**3.60**	**3.56**

[1] Sum of monthly estimates may not add to annual total due to rounding.
[2] Revised.

HOGS AND PIGS: December 1 Inventory by Classes and Weight, State of Hawaii, 2006-2010

Year	All hogs and pigs	Breeding	Market				
			Total	Under 60lbs.	60-119 lbs.	120-179 lbs.	180 lbs. and over
			1,000 head				
2006	16.0	4.1	11.9	5.5	3.0	2.0	1.4
2007	15.0	3.6	11.4	5.8	2.7	1.8	1.1
2008 [1]	13.0	2.8	10.2	3.8	3.3	1.9	1.2
2009 [1]	13.0	2.9	10.1	3.9	3.2	1.7	1.3
2010 [1]	**12.5**	**3.0**	**9.5**	**4.0**	**2.8**	**1.7**	**1.0**

[1] Beginning 2008, the market weight group under 60 pounds has been changed to under 50 pounds. The market weight group 60-119 pounds has been changed to 50-119 pounds.

HOGS AND PIGS: December 1 Inventory by Class, by County, 2006-2010

Year	All hogs and pigs	Breeding	Total market	Year	All hogs and pigs	Breeding	Total market
		1,000 head				*1,000 head*	
County:							
Hawaii				**Kauai**			
2006	.9	.3	.6	2006	2.0	.3	1.7
2007	1.1	.4	.7	2007	2.0	.3	1.7
2008	.6	.2	.4	2008	1.5	.2	1.3
2009 [1]				2009 [1]			
2010 [1]				**2010 [1]**			
Honolulu				**Maui**			
2006	9.6	2.5	7.1	2006	3.5	1.0	2.5
2007	9.2	2.4	6.8	2007	2.7	.5	2.2
2008	9.4	2.1	7.3	2008	1.5	.3	1.2
2009 [1]				2009 [1]			
2010 [1]				**2010 [1]**			

[1] County estimates not published due to staff reduction-in-force but combined and included in the State total.

HOGS: Number of Operations, Number and Pounds Sold, Price, and Value, by County, 2006-2010

Year	Operations	Number sold [1]	Pounds sold (live weight) [2]	Farm price (live weight)	Value of sales
	Number	*1,000 head*	*1,000 pounds*	*Dollars per hundredweight*	*1,000 dollars*
State [3]					
2006	230	23.0	4,485	92.70	4,158
2007	230	20.0	3,880	94.90	3,682
2008	230	18.0	3,456	97.20	3,359
2009	230	15.1	3,096	96.80	2,996
2010	**230**	**15.5**	**3,751**	**97.60**	**3,661**
County:					
Hawaii					
2006	70	1.5	303	84.50	256
2007	70	1.1	216	85.50	185
2008	70	1.0	203	84.00	171
2009 [4]					
2010 [4]					
Honolulu					
2006	70	12.9	2,591	91.50	2,371
2007	70	11.1	2,157	91.50	1,974
2008	70	9.9	1,968	94.50	1,860
2009 [4]					
2010 [4]					
Kauai					
2006	30	3.7	596	102.50	611
2007	30	3.4	575	111.00	638
2008	30	3.3	496	116.50	578
2009 [4]					
2010 [4]					
Maui					
2006	60	4.9	995	92.50	920
2007	60	4.4	932	95.00	885
2008	60	3.8	789	95.00	750
2009 [4]					
2010 [4]					

[1] Excludes interfarm sales; includes custom slaughter for home use; includes direct sales on farms to consumers. Excludes live hogs brought in for immediate slaughter.
[2] Excludes custom slaughter for use on farms where produced and interfarm sales.
[3] Sum of county estimates may not add to State total due to rounding. Sales and value data are for the 12-month period, December of the previous year through November of the following year.
[4] County estimates not published due to staff reduction-in-force but combined and included in the State total.

HOGS: Commercial Slaughter and Farm Price, State of Hawaii, 2006-2010

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Number of head [1 2] – *1,000 head*													
2006	1.8	1.7	1.8	1.7	2.0	2.2	1.9	2.0	1.8	1.8	1.8	2.2	22.5
2007	1.7	1.5	1.7	1.7	1.8	1.9	1.8	1.9	1.5	1.6	1.7	2.0	21.0
2008	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.6	1.6	1.4	1.8	19.2
2009	1.4	1.2	1.3	1.2	1.3	1.5	1.5	1.3	1.3	1.4	1.4	1.7	16.5
2010	**1.2**	**1.2**	**1.3**	**1.3**	**1.3**	**1.3**	**1.4**	**1.4**	**1.2**	**1.3**	**1.3**	**1.6**	**15.8**
Pounds slaughtered, dressed weight [1 2 3] – *1,000 pounds*													
2006	304	276	301	294	333	368	322	336	319	322	301	360	3,836
2007	281	254	283	263	296	296	291	298	253	269	301	332	3,416
2008	248	254	260	263	277	271	288	299	275	281	225	303	[4]3,243
2009	242	212	235	212	214	243	237	236	225	245	236	283	2,819
2010	**210**	**218**	**243**	**236**	**245**	**245**	**261**	**255**	**221**	**239**	**243**	**283**	**2,898**
All hogs, average farm price, dressed weight [5] – *cents per pound*													
2006	123.0	125.5	122.5	122.5	124.0	126.5	123.5	122.0	124.5	124.0	127.0	124.5	123.5
2007	126.0	127.5	127.5	125.5	125.5	125.5	130.0	129.0	127.5	129.5	124.0	126.0	126.5
2008	128.5	129.5	129.5	[4]134.0	129.5	[4]130.0	132.0	129.0	130.0	130.5	[4]131.0	[4]128.0	129.5
2009	124.5	129.0	130.5	127.0	132.5	131.5	129.5	128.0	130.0	130.5	130.0	122.5	129.0
2010	**138.5**	**136.5**	**141.0**	**140.5**	**139.5**	**141.5**	**141.5**	**139.0**	**139.5**	**139.5**	**136.0**		**137.5**
Market hogs, average farm price, dressed weight [5] – *cents per pound*													
2006	127.0	128.5	127.5	126.0	127.0	131.5	130.0	129.5	129.0	128.5	131.5	129.5	128.5
2007	129.0	130.5	131.0	130.5	132.5	130.0	133.0	132.0	132.5	134.0	130.5	130.5	131.0
2008	132.0	132.5	[4]135.5	138.5	135.0	133.0	136.5	133.5	133.0	133.0	133.5	130.5	133.5
2009	126.0	130.5	132.0	129.5	135.5	134.0	131.5	131.0	132.0	133.0	132.5	125.0	131.5
2010	**140.5**	**138.5**	**143.0**	**143.0**	**142.5**	**144.0**	**142.5**	**142.0**	**142.0**	**141.5**	**139.0**		**140.0**

[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] Revised.
[5] 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, 2006-2010

Year	Inventory December 1 previous year	Pig crop	Inshipments [1]	Marketings [1]	Farm slaughter	Deaths	Inventory December 1
			1,000 head				
2006	19.0	25.0	*	23.0	1.0	4.0	16.0
2007	16.0	24.0	*	20.0	1.0	4.0	15.0
2008	15.0	20.0	*	18.0	1.0	3.0	13.0
2009	13.0	18.8	*	15.1	1.0	2.7	13.0
2010	**13.0**	**19.5**	*****	**15.5**	**1.5**	**3.0**	**12.5**

* = Less than 500 head.
[1] Excludes live hogs brought in for immediate slaughter.

State's December 1 inventory dropped 4 percent

Hawaii farmers had 364,000 egg-type chickens on hand on December 1, 2010, down 15,000 or 4 percent from 2009. Of the total chickens, 336,000 or 92 percent were layers and 28,000 were non-laying pullets.

Egg production for 2010 totaled 69.5 million, unchanged from the 2009 total. The average number of layers on hand during 2010 was 326,000. A decrease of 1 percent compared to the previous year. Production per layer increased to an average of 213 eggs in 2010, up 1 percent from the 2009 rate of 211 eggs per layer.

Production levels unchanged from 2009

The farm price of a dozen eggs in 2010 averaged $1.51, which equals the 2009 state record price.

Total cash receipts for eggs was up slightly from 2009 as egg production equaled previous year, but rounded estimate rose by $1,000.

CHICKENS: December 1 Inventory by Class, by County, 2006-2010

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							
2006	470	293	122	415	20	35	*
2007	398	265	90	355	20	23	*
2008	373	250	84	334	18	21	*
2009	379	235	84	319	29	31	*
2010	**364**	**247**	**89**	**336**	**14**	**14**	*****

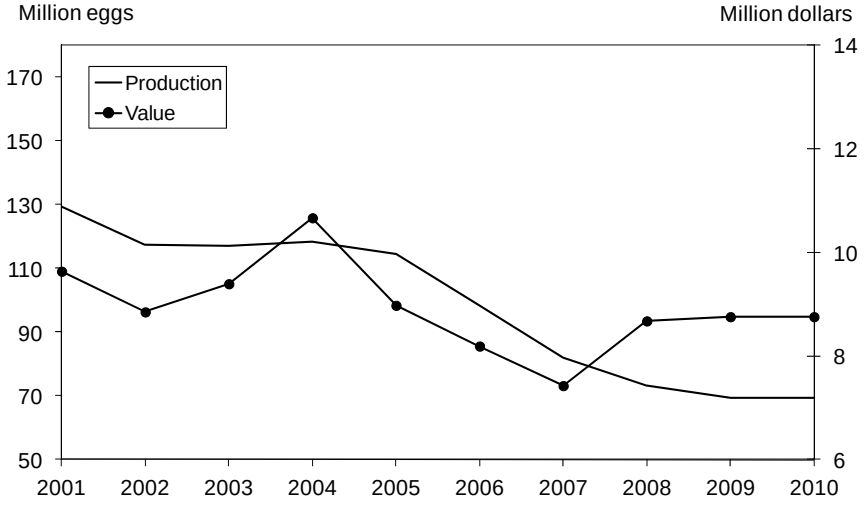
* = Less than 500.

EGGS: December 1 Number of Operations, Number of Layers, Production, Price, and Value, by County, 2006-2010 [1]

Year	Operations		Average number of layers	Average production per layer	Production [2]	Average price [3]	Value of sales
	All	3,000 layers or more					
	Number		*1,000 birds*	*Eggs*	*Million eggs*	*Cents per dozen*	*1,000 dollars*
State [4]							
2006	80	6	448	219	98.3	100.0	8,192
2007	80	5	378	216	81.8	109.0	7,428
2008	100	5	343	214	73.3	142.0	8,678
2009	100	5	330	211	69.5	151.0	8,759
2010	**100**	**5**	**326**	**213**	**69.5**	**151.0**	**8,760**
County:							
Hawaii/Kauai/Maui [5]							
2006	65	2	[6]	[6]	[6]	[6]	[6]
2007	65	1	[6]	[6]	[6]	[6]	[6]
2008	85	1	[6]	[6]	[6]	[6]	[6]
2009 [7]							
2010 [7]							
Honolulu							
2006	15	4	[6]	[6]	[6]	[6]	[6]
2007	15	4	[6]	[6]	[6]	[6]	[6]
2008	15	4	[6]	[6]	[6]	[6]	[6]
2009 [7]							
2010 [7]							

[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. [6] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total. [7] County estimates not published due to staff reduction-in-force but combined and included in the State total.

EGGS: Production and Value of Sales, State of Hawaii, 2001-2010

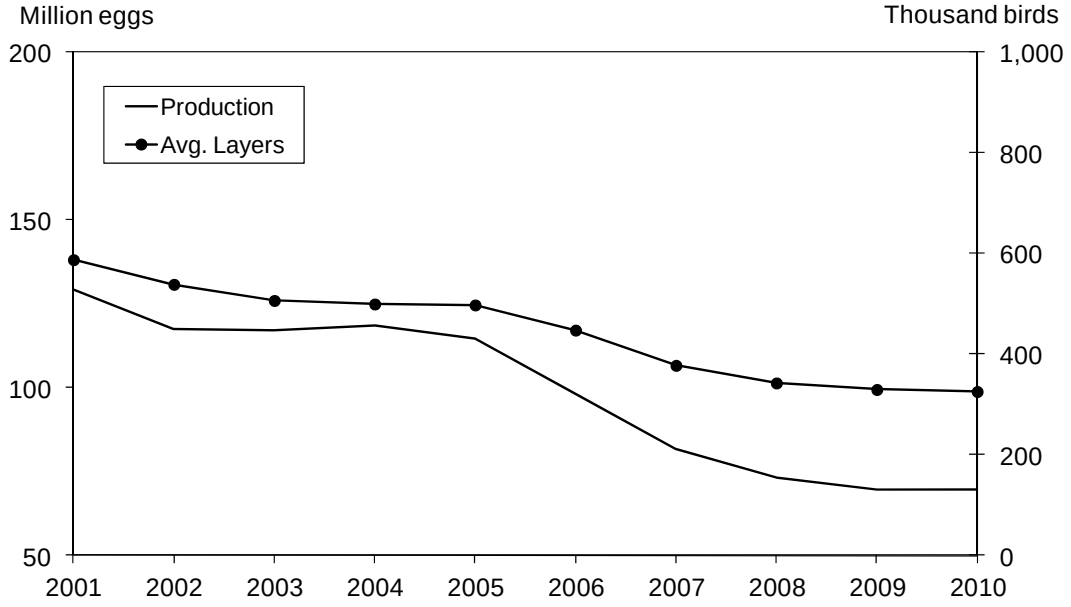


EGGS: Number of Layers, Production, and Price, State of Hawaii, 2006-2010

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*													
2006	478	475	467	461	446	445	438	429	427	419	417	409	448
2007	403	395	388	380	367	368	369	368	366	365	362	360	378
2008	361	353	352	351	336	335	333	329	330	333	338	338	343
2009	339	334	337	339	333	325	327	326	315	319	323	307	330
2010	**301**	**307**	**317**	**334**	**326**	**317**	**332**	**351**	**350**	**349**	**348**		**326**
Egg production [2] – *million eggs*													
2006	8.8	7.9	8.7	8.3	8.3	8.2	8.6	8.2	7.6	7.6	7.3	7.4	98.3
2007	7.3	6.4	6.9	6.7	6.9	6.9	7.0	6.8	6.4	6.7	6.4	6.4	81.8
2008	6.5	6.1	6.5	6.1	6.1	6.0	6.3	6.1	5.8	5.8	5.6	6.0	73.3
2009	6.0	5.2	5.9	5.9	6.1	5.7	6.0	5.9	5.6	5.7	5.5	5.4	69.5
2010	**5.5**	**5.2**	**5.9**	**6.0**	**6.1**	**5.6**	**5.9**	**6.3**	**5.9**	**5.8**	**5.9**		**69.5**
Average farm price [3] – *cents per dozen*													
2006	108.0	105.0	96.0	100.0	98.0	97.0	97.0	93.5	98.5	100.5	100.0	110.0	100.0
2007	106.0	113.0	110.0	108.0	109.0	104.0	104.0	100.0	108.0	116.0	121.0	132.0	109.0
2008	132.0	138.0	142.0	147.0	147.0	138.0	145.0	142.0	145.0	149.0	150.0	150.0	142.0
2009	156.0	161.0	158.0	161.0	155.0	133.0	148.0	146.0	146.0	150.0	151.0	[4]	151.0
2010	[4]	[4]	[4]	[4]	[4]	[4]	[4]	[4]	[4]	[4]	[4]		**151.0**

[1] Annual data are for the 12-month period, December of the previous year through November of the following year.
[2] Sum of monthly estimates may not add to annual total due to rounding.
[3] Equivalent delivered processing plant.
[4] Beginning 2010, data series discontinued.

CHICKENS: Production and Average Number of Layers, State of Hawaii, 2001-2010



EQUINE: January 1 Inventory and Number Sold, State of Hawaii, 1992-2007

Year	Inventory	Number sold
	1,000 head	
1992	4.0	.2
1997	5.1	.2
2002	4.6	.3
2007	**6.5**	**.4**

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

GOATS: January 1 Inventory and Number Sold, State of Hawaii, 1992-2007

Year	Inventory	Number sold
	1,000 head	
1992	5.0	3.0
1997	3.3	3.6
2002	5.4	4.2
2007	**9.2**	**2.8**

Source: Census of Agriculture.

HONEY AND BEESWAX: Number of Operations, Colonies, Yield, Production, Price, and Value, State of Hawaii, 2006-2010

Year	Opera-tions	Number of colonies	Yield per colony (honey)	Production		Average price [1]		Value of production	
				Honey (extracted)	Beeswax	Honey (extracted)	Beeswax	Honey (extracted)	Beeswax
	Number	*Thousands*	*Pounds*	*----- 1,000 pounds -----*		*----- Cents per pound -----*		*----- 1,000 dollars -----*	
2006	35	10	93	930	29	121	205	1,125	59
2007	40	10	92	920	6	170	294	1,564	18
2008	35	10	90	900	12	159	261	1,431	31
2009	35	10	95	950	10	176	315	1,672	32
2010	**35**	**10**	**77**	**770**	**11**	**227**	**320**	**1,748**	**35**

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

SHEEP: January 1 Inventory and Number Sold, State of Hawaii, 1992-2007

Year	Inventory	Number sold
	1,000 head	
1992	22,938	2,122
1997	22,541	2,484
2002	19,909	4,639
2007	**22,376**	**4,784**

Source: Census of Agriculture.

AQUACULTURE: Number of Operations, Production, and Value, by County, 2006-2010

Year	Operations	Production		Value					
		Shellfish	Finfish	Shellfish	Finfish	Algae	Ornamental	Other [1]	Total
	Number	*------ 1,000 pounds ------*		*---------- 1,000 dollars ----------*					
State									
2006	80	180	426	2,351	2,388	11,914	345	4,259	21,257
2007	70	65	533	520	4,583	10,941	2,424	6,642	25,110
2008	70	32	1,311	261	7,022	15,740	3,346	8,281	34,650
2009	70	56	821	420	4,447	16,995	2,671	7,797	32,330
2010	**75**	**76**	**211**	**575**	**1,012**	**16,725**	**1,837**	**9,821**	**29,970**
County:									
Hawaii									
2006	25	103	[2]	1,834	[2]	[2]	[2]	[2]	17,470
2007	25	[2]	[2]	[2]	[2]	[2]	[2]	[2]	20,013
2008	35	[2]	[2]	[2]	[2]	[2]	[2]	[2]	27,836
2009 [3]									
2010 [3]									
Honolulu/Kauai/Maui [4]									
2006	55	77	[2]	517	[2]	[2]	[2]	[2]	3,787
2007	45	[2]	[2]	[2]	[2]	[2]	[2]	[2]	5,097
2008	35	[2]	[2]	[2]	[2]	[2]	[2]	[2]	6,814
2009 [3]									
2010 [3]									

[1] Items not sold by weight which includes number count for example seed stock, brood stock, and fingerlings.
[2] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.
[3] County estimates not published due to staff reduction-in-force but combined and included in the State total.
[4] Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

FARM LABOR: Number of Workers on Farms, Annual Averages and Quarterly Survey Week Totals, State of Hawaii, 2006-2010 [1]

Year	Total farm workforce [2]	Number of farm workers by type					
		Self-employed farm operators [2]	Unpaid workers [2 3]	Hired workers			
				Total	Sugarcane	Pineapple	Other
2006				7,000	600	1,000	5,400
2007				6,500	[4]	[4]	[4]
2008	10,400	3,300	900	6,200	[5] 1,100	[5]	5,100
2009	10,600	3,500	1,000	6,200	[5] 900	[5]	5,300
2010	**11,200**	**3,800**	**1,000**	**6,400**	[5] 800	[5]	**5,600**
Survey week:							
January 10-16	11,200	3,800	1,100	6,300	[5] 750	[5]	5,550
April 11-17	10,800	3,600	900	6,300	[5] 750	[5]	5,550
July 11-17	11,100	4,000	900	6,200	[5] 800	[5]	5,400
October 10-16	11,500	3,700	1,200	6,600	[5] 800	[5]	5,800

[1] Annual averages are based on quarterly survey week estimates.
[2] Total farm workforce, self-employed operators, and unpaid workers estimates were discontinued from July 2002 to April 2007 due to a change in the National labor statistics program.
[3] Unpaid farm workers include family members and others that worked 15 or more hours during the survey week.
[4] Annual averages are not available because the January 2007 Agricultural Labor survey was not conducted.
[5] Beginning April 2007, pineapple is combined with sugarcane to avoid disclosure of individual operations.

FARM LABOR: Annual Average Number of Hired Workers on Farms, by County, 2006-2010 [1]

Year	County				Total [2]
	Hawaii	Honolulu	Kauai	Maui	
2006	2,650	1,950	700	1,750	7,000
2007 [3]	2,500	1,650	650	1,700	6,500
2008	2,350	1,600	550	1,700	6,200
2009	[4]	[4]	[4]	[4]	6,200
2010	**[4]**	**[4]**	**[4]**	**[4]**	**6,400**

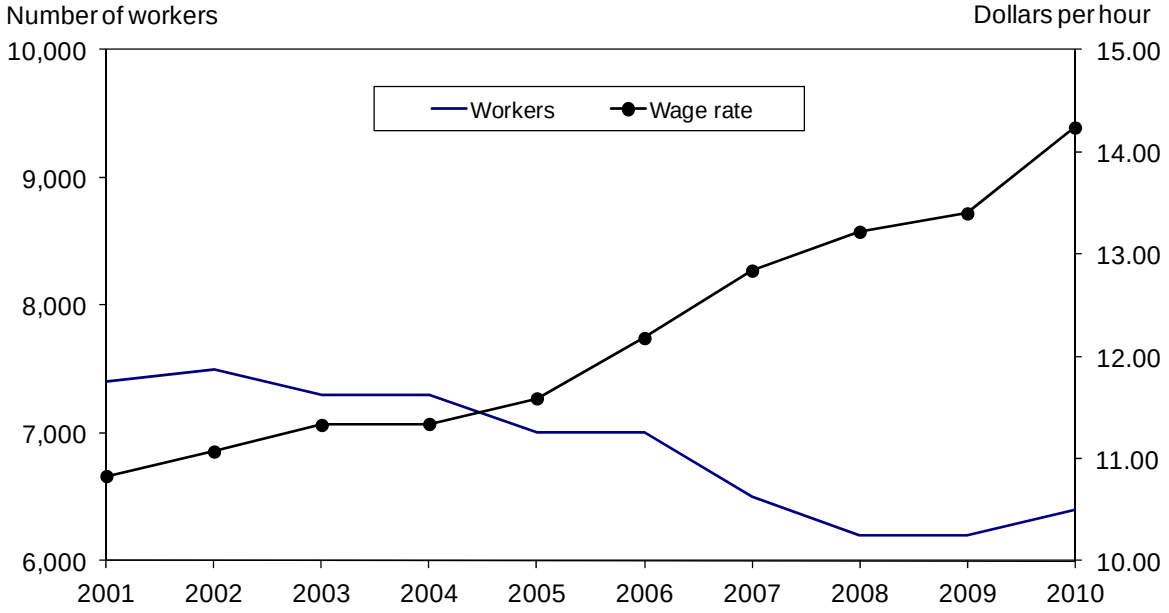
[1] Annual averages are based on data collected from the January, April, July, and October surveys.
[2] Sum of county estimates may not add to total due to rounding.
[3] The 2007 annual average number of hired workers by county is based on modeled data for January and survey data for April, July, and October.
[4] County estimates not published due to staff reduction-in-force but combined and included in the State total.

FARM LABOR: Wage Rates by Type of Farm and Worker, Annual and Quarterly Survey Week Averages, State of Hawaii, 2006-2010 [1]

Year	All farms		Farms with 1-9 workers	
	Field and livestock	All hired workers	Field and livestock	All hired workers
	Dollars per hour			
2006	10.32	12.18	9.46	10.78
2007 [2]	10.86	12.84	10.18	11.17
2008	11.06	13.22	10.65	11.73
2009	11.45	13.40	10.54	11.28
2010	**12.01**	**14.24**	**11.06**	**12.12**
Survey week:				
January 10-16	11.82	14.14	10.56	11.76
April 11-17	11.84	13.99	11.43	12.68
July 11-17	12.19	14.41	11.27	12.24
October 10-16	12.16	14.38	11.03	11.90

[1] Annual wage rates are averages of the published wage rates for each survey week weighted by the number of hours worked during the week.
[2] The 2007 annual average wage rate for All Farms is based on modeled data for January and survey data for April, July, and October. The 2007 annual average wage rate for Farms With 1-9 Workers is based on survey data for April, July, and October.

Hired Workforce and Average Wage Rate, State of Hawaii, 2001-2010



Number of workers is average of January, April, July, and October surveys.

The value of Hawaii's ag-tourism related activities is pegged at $38.8 million for 2006, up 14 percent from the $33.9 million generated in 2003. There were 112 farms statewide that had ag-tourism related income during 2006, a 40 percent decrease from 2003 as fewer agricultural producers in Hawaii have opened up their operations to visitors to the farm experience through ag-tourism activities. Interest in ag-tourism continues to be strong as 84 farms either are involved in ag-tourism activities in 2006 or planned to be in the future.

The distribution of ag-tourism throughout Hawaii has become more concentrated during the past three years as Hawaii county now accounts for half of the farms with ag-tourism and 34 percent of the total value. Honolulu county had 12 percent of the farms and 37 percent of the total value. Kauai county accounted for 13 percent of the farms and the value was 16 percent of the total. Maui county accounted for 25 percent of the farms and was the only county showing a decline from 2003 with 13 percent of the total value.

AG-TOURISM: Number of farms, value, and future intentions by country, State of Hawaii, 2000, 2003, and 2006

County	Total farms			Farms with ag-tourism activity			Value of ag-tourism			Farms intending to conduct ag-tourism activities in the future		
	2000	2003	2006	2000	2003	2006	2000	2003	2006	2000	2003	2006
							---------- *$1,000* ----------					
Hawaii	3,300	3,300	3,300	60	89	56	8,875	12,562	13,206	47	65	50
Honolulu	900	900	900	19	31	13	7,777	8,586	14,201	15	23	10
Kauai	500	500	500	16	24	15	2,103	5,949	6,365	6	20	10
Maui	800	800	800	31	43	28	7,288	6,772	4,994	16	37	14
State	**5,500**	**5,500**	**5,500**	**126**	**187**	**112**	**26,043**	**33,869**	**38,766**	**84**	**145**	**84**

Revenues from ag-tourism, which includes many various activities, was broken down into several categories. On-farm sales direct to farm visitors was the leading category, with $12.1 million, followed by retail sales (products from other farms or souvenir items), outdoor recreation, educational, and others.

AG-TOURISM: Number of Farms and Value, by Type of Activity, State of Hawaii, 2000, 2003, and 2006

Item	Type of ag-tourism activity							Totals [3]
	Outdoor recreation	Educational tourism	On-farm sales	Retail sales [1]	Accommo-dations [2]	Entertain-ment	Other	
Farms								
2000	28	30	83	29	27	8	8	126
2003	34	30	103	38	33	8	6	187
2006	**26**	**25**	**69**	**30**	**24**	**7**	**4**	**112**
Value ($1,000)								
2000	5,875	353	8,444	6,700	2,252	775	1,644	26,043
2003	5,019	1,177	13,479	9,083	2,490	1,061	1,560	33,869
2006	**9,305**	**2,255**	**12,054**	**11,963**	[4]	[4]	**3,189**	**38,766**

[1] Includes products from other farms or souvenir items.
[2] Includes bed and breakfast, meeting rooms, etc.
[3] Unduplicated total number of farms.
[4] For 2006, Accommodations and Entertainment were combined with "Other" to avoid disclosure of individual operations.

Eight-one percent of all ag-tourism operations in 2006 were planning to maintain or expand their operations in the future. Only 4 percent, or 5 farms, of the total indicated that they will discontinue or reduce their ag-tourism activities in the future. The 2006 Ag-tourism survey also showed that flower and/or nursery operations remained the most popular type of ag-tourism operation. Livestock and fruit farms were tied for second.

AG-TOURISM: Distribution of Farms by Future Intentions, State of Hawaii, 2000, 2003, and 2006

Year	Future ag-tourism plans				Total
	Expand ag-tourism activities	Remain at current level	Discontinue or reduce ag-tourism activities	Uncertain	
	Number of ag-tourism farms				
2000	60	41	7	18	126
2003	61	86	8	32	187
2006	**48**	**43**	**5**	**16**	**112**

AG-TOURISM: Distribution of Farms by Type of Farm, State of Hawaii, 2000, 2003, and 2006

Year	Type of farm [1]							Total
	Fruit	Vegetable	Coffee	Macadamia nut	Flower/ nursery	Livestock	Other	
	Number of ag-tourism farms							
2000	12	8	25	5	35	30	11	126
2003	30	18	30	14	38	26	31	187
2006	**21**	**8**	**20**	**8**	**25**	**21**	**9**	**112**

[1] A predominate commodity was designated for farms reporting more than one commodity.

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 8 percent of the 2004 Hawaii net farm income of $151 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
		1,000 dollars
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 vandalism	Number of incidents	Amount of loss
		1,000 dollars
Crop	263	1,026
Livestock	61	299
Chemical/Fertilizer	23	4
Machinery/Equipment	169	465
Other Property	637	225
Total	**1,153**	**2,019**

The Hawaii Field Office of USDA's National Agricultural Statistics Service estimates a portion of the value of agricultural commodities at the point in time when exported to the continental United States. A complete picture was not calculated due to the staff reduction-in-force, but commodities published in the 2010 Statistics of Agriculture publication for 2010 are shown in this table. Some commodities were modified from its original condition to create an added value product.

Hawaii Agricultural Exports to the Mainland United States: Estimated Value, by Commodity Group, 2006-2010

Commodity group	2006	2007	2008	2009	2010
			Thousand dollars		
Cattle [1]	19,117	19,510	15,394	15,208	**16,267**
Ornamentals [2]	48,217	53,174	42,906	31,378	**29,485**
Molasses [3]	4,900	5,400	5,300	7,800	**5,400**
Raw sugar [4]	74,800	70,900	66,100	65,800	**104,200**
Seed	103,040	140,710	176,990	236,410	**247,220**
Other [5]	177,104	122,494	136,706	[6]	**[6]**
Total Mainland U.S.	427,178	412,188	443,396	[6]	**[6]**

[1] Value is based on live weight price multiplied by average live weight and multiplied by the total number of cattle and calves exported.
[2] Includes floriculture and nursery products.
[3] Commercial value of factory-produced molasses on a common basis calibrated empirical formula issued by the United States Department of Agriculture. Molasses is a by-product of processing sugarcane or refined raw cane sugar.
[4] Commercial value for factory-produced sugar on a common basis calibrated empirical formula issued by the United States Department of Agriculture. Commercial sugar is sugar from high-grade massecuite (a mixture of crystals and mother liquor, crystallization having occurred in the mixture) which enters into commerce.
[5] Commodities not published separately to avoid disclosing administratively confidential information.
[6] Estimates not published due to staff reduction-in-force.

The United States Department of Agriculture's Economic Research Service estimates the value of Hawaii agricultural exports to foreign countries at $88.5 million during the 2010 federal fiscal year (October 1, 2009 to September 30, 2010), down 4 percent from the previous year.

Hawaii Agricultural Exports Outside the United States: Estimated Value, by Commodity Group, 2006-2010 [1]

Commodity group	2006	2007	2008	2009	2010
			Thousand dollars		
Fruits and preps [2]	[3] 49,900	38,600	43,200	38,100	**35,100**
Livestock [4]	[3] 2,000	[3] 2,300	[3] 2,600	2,600	**3,000**
Tree nuts	7,600	8,100	8,900	14,700	**11,500**
Other [5]	[3] 30,100	[3] 34,300	[3] 38,000	36,900	**38,900**
Total Foreign Countries	[3] 89,600	[3] 83,300	[3] 92,700	92,300	**88,500**

[1] Federal fiscal year begins October 1 of the previous year. Totals may not add due to rounding.
[2] Includes fruit, juice, and fruit products.
[3] Revised.
[4] Includes live animals and animal products.
[5] Includes sugar and tropical products, minor oilseeds, essential oils, beverages other than juice, nursery and greenhouse, seeds, feeds & fodder, wine, and misc. vegetable products.
Source: USDA-Economic Research Service (ERS).

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.

- **Ag-tourism** is a commercial enterprise on a working farm conducted for the enjoyment, education, and/or active involvement of the visitor, generating supplemental income for the farm. Activities such as producing and selling products directly from the farm, operating a bed and breakfast, conducting educational farm tours, offering horseback riding, festivals, concerts, and many other on-farm activities qualify as ag-tourism.

- **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.

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 examples of stratified list sample designs.

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

- **Multiple-Frame Sampling** is the use of two frames. It takes advantage of the best attributes of the area frame and the list frame, produces unbiased estimates, and allows measurement of the sampling error.

- **Objective Yield Surveys** provide information from direct counts, measurements and weights of the crop made from small plots in a probability selection of sample fields.

- **Administrative Data** is used in addition to producer surveys to establish final production and marketings. These include processor receipts, slaughter, vacuum cooler volume, and inspections. Unloads at Honolulu and wholesale prices, previously reported by the Market Analysis and News Branch, were 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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