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National Agricultural Statistics Service

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STATISTICS OF HAWAII AGRICULTURE 2011

Statistics of Hawaii Agriculture 2011

Cover: Nalo Greens fronting the beautiful Ko`olau mountains on the Windward side of Oahu Island. The farm gate value for 13 of Hawaii's selected vegetables and melons is estimated at $28.8 million in 2011. Photo courtesy of Nalo Farms, Dean Okimoto, and the Market Development Branch of the Hawaii Department of Agriculture.

STATISTICS OF HAWAII AGRICULTURE 2011

January 2013

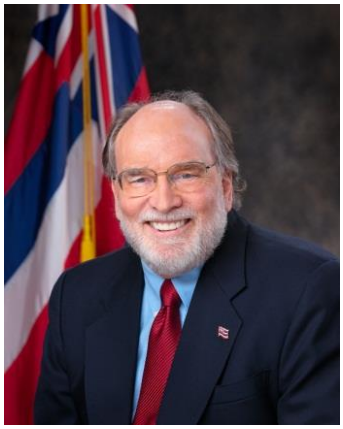
A Partnership Between the

Hawaii
Department of Agriculture
Agricultural Development Division

United States
Department of Agriculture
National Agricultural Statistics Service

Special Message from Governor Neil Abercrombie

Hawai‘i Agricultural Statistics Annual Report 2011



On behalf of the people of the State of Hawai‘i, I extend my appreciation to the Hawai‘i Field Office of the National Agricultural Statistics Service (NASS) and recognize its dedication in support of our agricultural community.

The unique history of agriculture in Hawai‘i is woven into the fabric of our island culture and traditions. This heritage continues to have a profound and lasting impact in our lives.

Working in collaboration with the Hawai‘i Department of Agriculture, the NASS Hawai‘i Field Office provides valuable insight into the agricultural industry and its role in the Aloha State’s evolving economy and way of life. This publication is a valuable resource providing accurate statistical data on the production of various grown commodities and raised livestock on Hawai‘i’s 7,500 farms and ranches, as well as production estimates for local nursery and floriculture industries. By quantifying the impact of these and other factors, we can better recognize developing trends, tailor support where it is most effective, and more accurately plan for a bright and productive future in the industry.

Mahalo nui loa (thank you very much) to all the hardworking farmers, growers and ranchers in our great state. It is agriculture that sustains not only the body but also the Aloha Spirit that we all appreciate so much.

E Malama Pono (Take good care),

Neil Abercrombie

NEIL ABERCROMBIE
Governor, State of Hawai‘i

NEIL ABERCROMBIE
Governor

RUSSELL S. KOKUBUN
Chairperson, Board of Agriculture

Scott E. Enright
Deputy to the Chairperson

State of Hawaii
DEPARTMENT OF AGRICULTURE
1428 South King Street
Honolulu, Hawaii 96814-2512

Aloha Kakou!

Agriculture has long been an important part of Hawaii's history and economy and continues to be so today. The composition of the agricultural sector continues to transform from sugar and pineapple production to diversified agricultural commodities led by the seed industry which accounts for 34 percent of the 2011 farm gate total. Figures in this publication show the total farm value to be $719.5 million which is the fourth year above the 1980 farm gate value of $634.1 million. In 1980, unprocessed sugarcane value jumped due to high prices caused by short world supplies as sugarcane accounted for $385.1 million or 61 percent of the total farm gate value. In the two preceding and two subsequent years to 1980, sugarcane accounted for an average of 46 percent. In contrast, sugarcane accounted for 11 percent of the total farm gate value in 2011.

Like all farmers throughout the nation, Hawaii's 7,500 farmers and ranchers are a crucial but relatively small part of today's complex global economy in which various businesses are mutually dependent. In order to prosper, agricultural producers must now work collaboratively to develop working coalitions and alliances with other organizations involved with the tourism industry, environmental stewardship, and the business community.

This publication is a valuable resource to measure our progress and benchmark for future plans. Data contained in this publication also gauges our department's mission statement; To re-establish agriculture as essential to the well-being of our island society by rejuvenating the economy, protecting important resources, and gaining greater self-sufficiency in food production and alternative energy development.

The *Statistics of Hawaii Agriculture* publication also provides the hard data that describes the importance and impact made by our agricultural producers, their families, and production-level agriculture to our communities and our economy. But that only shows a portion of the complete picture. The latest available study estimates that when you enhance the value of many of our commodities along with the related business activities generated because of agriculture, the impact of agriculture increased to $1.9 billion. Hawaii would not be Hawaii without agriculture.

I want to thank all of you who have taken time to provide the data that made the 2011 *Statistics of Hawaii Agriculture* possible.

Mahalo,

Russell S. Kokubun
Chairperson, Board of Agriculture

USDA, NASS, HAWAII FIELD OFFICE

"Fact Finders for Hawaii Agriculture"

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

MESSAGE FROM THE STATE DIRECTOR

Producers are the primary information source for this publication. We truly appreciate and thank all the agricultural producers and organizations who have so willingly and faithfully provided survey information. Also, we are aware and sensitive to the frequent contacts made to Hawaii producers. Many options are available for producers to respond including replying by mail, facsimile, the Internet (for certain selected surveys), by phone, and personal interviews. The vast majority of producers understand that farmers and ranchers are the most knowledgeable source, often the only source, for the information required to meet specific data needs and publication results. Supplemental information is provided by grower organizations and agribusiness firms. Without their vital cooperation and support on the many surveys conducted throughout the year, these reports would not be possible.

A very important component of our data collection efforts is performed by our National Association of State Department of Agriculture (NASDA) enumerators. Their efforts are very worthy of special recognition for their important and significant contributions.

The direct value of this data is not always transparent to the producer, but reliable numbers are needed for business and policy decisions. The uses of this information are many, but often the data is needed for developing marketing strategies, obtaining farm loans, writing business plans, testifying before local or state governing bodies, justifying claims for disaster relief, and evaluating and developing risk aversion plans.

The 2012 Census of Agriculture forms were mailed out in December 2012. The Census of Agriculture is our largest project which provides a baseline level for the annual estimates contained in this publication. The reference years for the Agricultural Census are the years ending in 2 and 7 so this provides Hawaii agricultural producers an opportunity to show the importance and impact agriculture has on our state.

Our website, ***http://www.nass.usda.gov/hi***, contains all the data published by our office including the 2007 Census of Agriculture results and other Census of Agriculture follow-on surveys.

Thank you,

Mark E. Hudson
Director, USDA NASS Hawaii Field Office

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A Partnership Between the

Hawaii
Department of Agriculture
Agricultural Development Division

United States
Department of Agriculture
National Agricultural Statistics Service

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

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2011 Farm Revenues up 7 Percent from Previous Year

Farm gate revenues for 2011 totaled $719.5 million compared to the revised 2010 level of $674.6 million. Compared to the previous year, 15 of the 20 top ranked commodities were higher including seed crops, sugarcane, cattle, macadamia nuts, algae, bananas, milk, sweet potatoes, basil, lettuce, potted palms, dry onions, potted dracaena, honey, and taro.

The value of individually published diversified commodities rose 7 percent including a 2 percent increase for seed. The $243.0 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. Farm gate value for cattle and calves rose 50 percent due to a program change where prices are now set at the regional level. Aquaculture revenues increased 33 percent compared to 2010 due mainly to increased algae revenues. Macadamia nut farm gate revenues increased 27 percent due to higher utilized production and higher prices. Published vegetables and melons rose 16 percent due to higher production and prices. Milk farm revenue rose by 9 percent which is attributed to higher milk production. Information for some agricultural commodities is suppressed to prevent disclosing individual operations, but is included in the total revenue number.

Revenue declines include flowers and nursery products which fell 2 percent to $69.6 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. Parchment coffee farm gate value decreased 6 percent due to lower production despite higher coffee prices received by producers. Fruits declined by 3 percent due to lower production compared to the previous year. Herb farm gate value fell 12 percent due to lower production. Hog farm gate value declined 28 percent due to a program change where prices are now set at the regional level.

The equivalent farm value of sugarcane (this does not include the processed value of raw sugar) was set at $78.1 million, up 12 percent from 2010. Sugarcane price increased 4 percent from last year and sets a new state record. 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

The year began with approximately half the State having a drought rating of abnormally dry or drier according to the U.S. Drought Monitor. These drought areas were restricted to the leeward areas of Maui and Hawaii Counties. Throughout the first quarter, weather conditions were mostly mild with light trade winds and clear skies, excepting two heavy precipitation events. The first rainfall episode occurred mid-January and primarily affected the counties of Kauai, Honolulu, and Maui. These heavy rains initiated flooding and mudslides causing significant damage in some areas; however, the effects to overall agricultural production were minimal. During the month of February, weather conditions remained mostly fair, receiving minimal amounts of rainfall statewide. The second major precipitation event of the quarter occurred towards the end of the first week in March, and primarily affected Kauai and Honolulu Counties. Two consecutive days of record breaking daily maximum rainfall occurred at Lihue on Kauai with 2.80 and 2.70 inches falling on March 3rd and 4th, respectively. The remainder of the month of March was marked by breezy trade winds bringing light passing precipitation to northerly, leeward, and central areas across the State.

April - June

Overall conditions throughout the second quarter of 2011 were dominated by typical island trade wind weather. Most areas experienced intermittent cloud cover with light passing showers, which were slightly more intense in windward areas. Kona winds prevailed over trade winds for a few days in mid-April and brought increasing temperatures and vog across many areas through the State. An unusual storm system typically associated with winter weather hit the islands in early June. This storm resulted in localized heavy showers and thunderstorms, which hit the islands of Kauai and Oahu particularly hard, and produced snowfall at the summit of Mauna Kea on the Big Island. Drought conditions only fluctuated slightly throughout the quarter, with approximately 60 percent of the State remaining rated as abnormally dry or drier.

July – September

Weather conditions remained fairly consistent throughout the third quarter of 2011. Mostly sunny conditions prevailed with typical trade winds bringing showers to many areas, particularly in the evenings. Not enough precipitation was received to mitigate increasing drought conditions. Rain showers occurred most frequently on windward areas and mountain slopes, while leeward areas only received isolated very light rainfall. U.S. Drought Monitor rated 55 percent of the State, confined to regions of Hawaii and Maui Counties, in abnormally dry or drier conditions throughout the month of July. As August began, this drought rating increased to 75 percent of the State but was still confined to areas in Hawaii and Maui Counties. During September, the drought rating for abnormally dry or drier conditions was increased to 95 percent of the State and included areas in all four of Hawaii's counties. Towards the end of September, some windward areas of Hawaii County received weekly rainfall totals of greater than 5 inches.

October – December

Weather for the final quarter of 2011 varied, with dry conditions persisting through October and heavy rainfall occurring during the months of November and December. Drought conditions continued to intensify through October while only light isolated showers fell primarily on windward areas, and sunny skies prevailed. The beginning of November brought heavy rains across the State. The rain continued to fall through November and by the end of the month, abnormally dry or drier drought conditions had fallen to 76 percent of the State. Rains were light and scattered in the beginning of December 2011, and continued to intensify throughout the month. Windward areas in particular received a great deal of precipitation and the soil was saturated in many of these areas. Leeward areas received less rainfall than the windward areas, but it was still enough to bring abnormally dry or drier drought conditions down to 56 percent of the State by the end of the month. Flash flood warnings had been issued for the counties of Hawaii, Maui, and Honolulu at various times throughout December.

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

WEATHER: Precipitation, Selected Stations, State of Hawaii, 2011

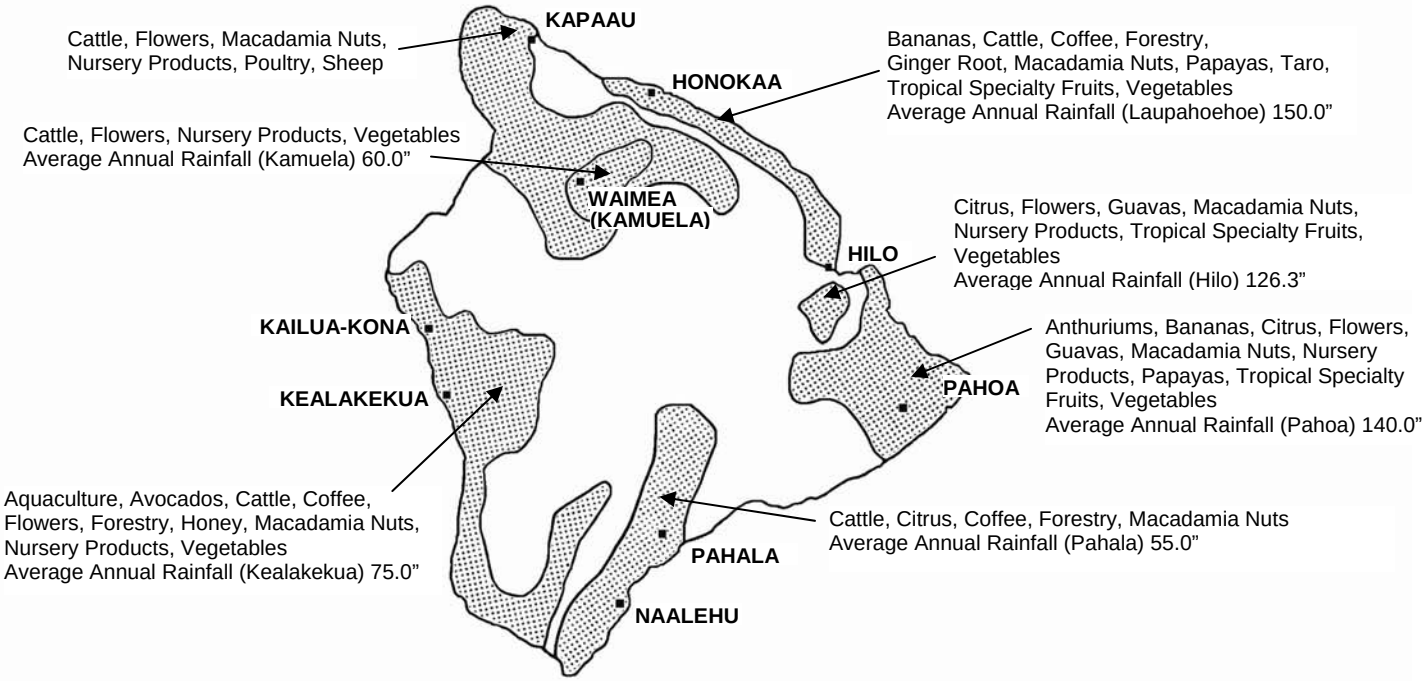
STATIONS	Year & normal	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual	% Annual normal
HAWAII COUNTY															
Hilo International Airport	Normal	9.7	8.9	14.4	12.5	8.1	7.4	10.8	9.9	9.9	9.8	15.5	11.6	128.5	
	2011	3.69	4.14	10.32	4.45	8.48	6.38	5.18	8.74	4.45	4.10	17.47	20.26	97.66	76.0
Kamuela (HI86)	Normal	6.6	6.0	7.9	6.9	4.0	2.2	3.7	4.1	2.2	3.4	5.6	4.9	57.5	
	2011	2.46	1.07	1.78	1.16	1.20	2.74	2.48	1.78	1.05	1.13	3.62	8.00	28.47	49.5
Kealakekua (HI84)	Normal	4.7	3.4	5.6	6.2	7.7	8.2	8.7	8.3	8.2	4.3	3.3	2.7	71.3	
	2011	1.11	2.81	5.35	6.68	9.09	3.42	1.23	2.89	6.13	8.92	2.52	.16	50.31	70.6
Laupahoehoe (HI80)	Normal	13.5	13.2	19.5	18.9	11.7	6.2	10.0	12.4	6.9	10.7	15.3	11.5	149.8	
	2011	4.82	1.39	10.88	2.87	6.40	6.10	3.49	7.24	5.36	5.60	15.42	23.90	93.47	62.4
Pahala (HI85)	Normal	7.7	6.1	6.3	5.0	3.8	2.2	2.1	3.3	3.4	4.7	6.9	4.9	56.4	
	2011	1.42	4.56	4.93	4.40	3.21	.08	.89	.36	2.28	1.06	.29	2.18	25.66	45.5
Pahoa (HI83)	Normal	13.9	10.9	14.7	13.9	10.5	7.1	9.8	10.6	9.2	11.6	16.0	11.3	139.5	
	2011	3.86	3.14	11.29	4.58	7.04	8.70	5.95	7.14	4.83	5.43	16.38	24.40	102.74	73.6
HONOLULU COUNTY															
Kahuku (HI09)	Normal	6.3	4.2	5.3	4.0	2.5	1.8	2.2	2.6	2.2	4.1	4.6	4.1	43.9	
	2011	5.49	2.45	3.71	2.23	13.27	5.76	2.59	.97	.78	1.79	2.32	.74	42.10	95.9
Waianae (HI17)	Normal	3.8	2.3	2.5	1.6	.7	.3	.3	.7	.7	2.6	2.8	3.5	21.8	
	2011	8.37	4.51	1.70	1.77	2.55	.41	.40	0	.03	.56	.15	.19	20.64	94.7
Waimanalo (HI13)	Normal	6.8	4.6	3.6	3.2	3.2	1.5	1.6	1.5	2.0	3.8	6.2	6.1	44.1	
	2011	5.62	5.21	4.05	1.53	2.11	1.48	1.29	.72	.26	1.34	.71	2.27	26.59	60.3
KAUAI COUNTY															
Hanalei (HI45)	Normal	11.8	9.4	13.4	12.2	9.3	6.5	9.8	8.7	6.9	6.5	9.3	8.5	112.3	
	2011	0	--	--	--	20.34	7.99	--	2.87	1.89	2.86	--	--	--	--
Omao (HI51)	Normal	6.9	4.5	5.5	5.2	4.2	3.4	4.7	4.6	3.7	5.3	6.3	5.7	60.0	
	2011	6.34	6.08	7.63	2.44	12.00	7.32	4.87	2.51	1.64	3.06	7.43	4.52	65.84	109.7
Wailua	Normal	7.5	6.5	8.1	7.5	6.2	4.3	6.1	6.3	5.3	8.0	9.4	7.3	82.5	
	2011	5.64	11.74	13.41	5.15	16.30	7.50	6.47	--	2.34	4.71	9.78	6.35	--	--
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	7.8	7.0	80.7	
	2011	6.21	6.60	--	--	--	--	--	--	--	--	--	--	--	--
Kula (HI65)	Normal	3.5	3.0	2.5	1.6	1.1	.8	.8	.8	1.1	1.8	2.6	3.6	23.2	
	2011	6.10	4.43	1.39	1.80	1.11	.35	.07	0	.82	1.08	.24	.48	17.87	77.0
Lahainaluna	Normal	4.4	2.7	2.4	1.7	.7	.2	.3	.6	.6	1.2	2.7	3.8	21.3	
	2011	--	.98	.84	.31	.29	.06	.03	.04	.49	.47	.08	.10	--	--
Molokai Airport	Normal	4.3	3.2	3.7	2.2	1.0	.5	.7	.7	.7	1.9	3.3	4.3	26.5	
	2011	4.54	1.08	1.16	.51	.11	.17	.39	.20	.11	.25	.58	1.17	10.27	38.8

-- = No record. Data not recorded.

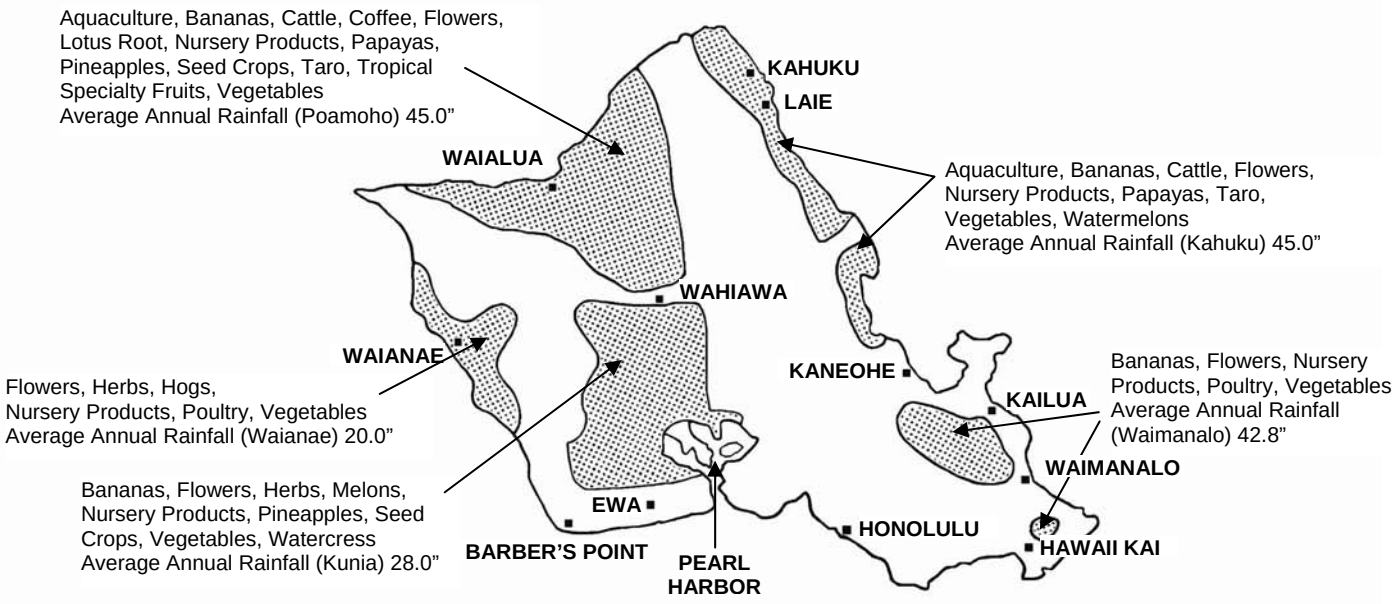
Source: U. S. Department of Commerce, National Oceanic and Atmospheric Administration. Most rainfall stations were selected from the National Weather Service's hydronet system of automated gauges, and those data have not been quality controlled to date, and therefore are not certified by the National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

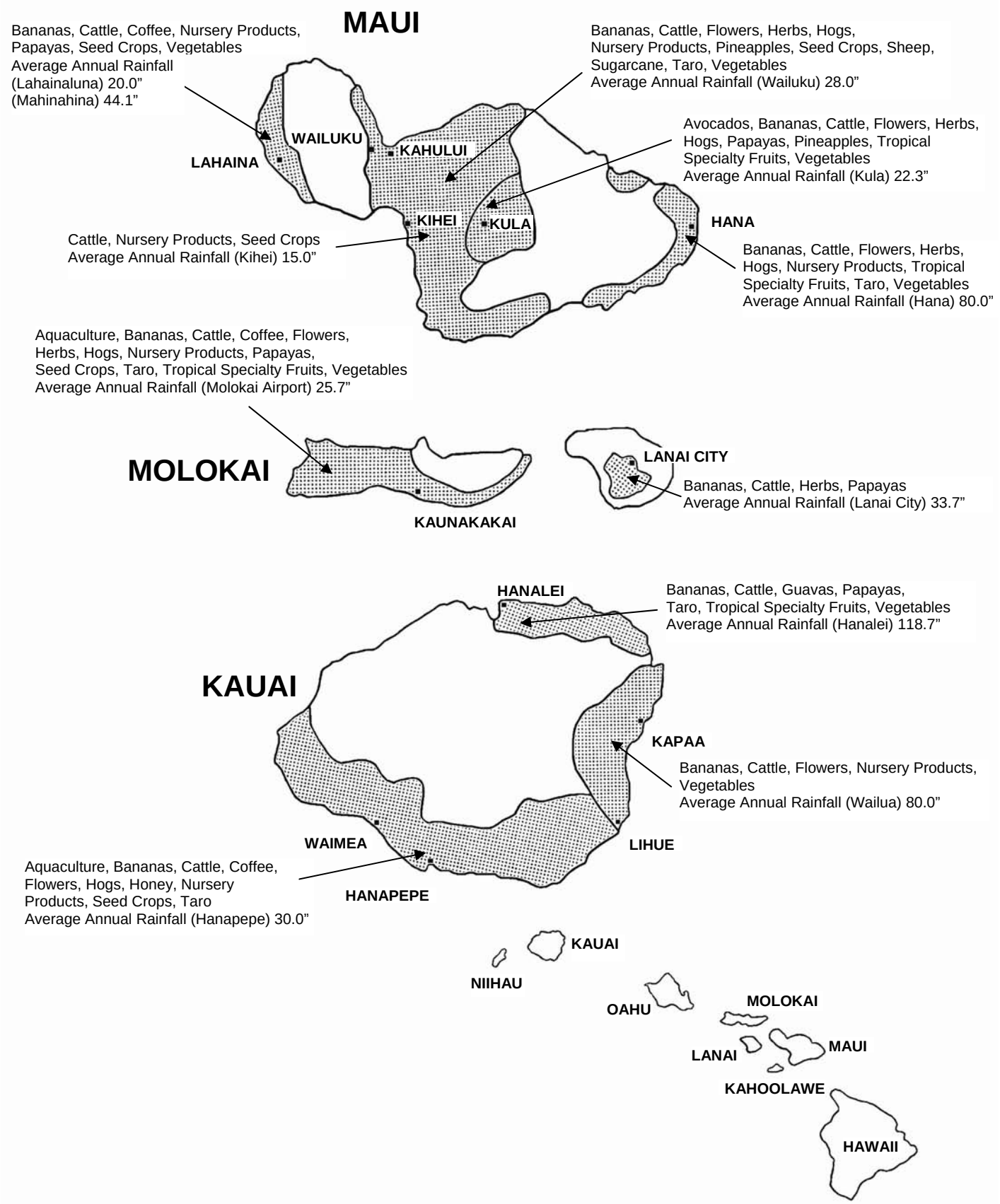
MAJOR AGRICULTURAL AREAS, STATE OF HAWAII, 2011

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, 2010-2011 [1]

Commodity [2]	Rank 2010	Rank 2011	Value of production 2010	Value of production 2011
	--- Number ---		--- 1,000 dollars ---	
Seed crops	1	1	239,375	**242,970**
Sugarcane (unprocessed)	2	2	69,800	**78,100**
Cattle	4	3	30,892	**46,369**
Macadamia nuts	5	4	30,000	**38,220**
Coffee	3	5	33,440	**31,540**
Algae	6	6	16,725	**25,230**
Bananas	8	7	10,680	**11,310**
Papayas	7	8	11,123	**9,722**
Milk	9	9	8,750	**9,547**
Potatoes, sweet	10	10	6,510	**7,348**
Basil	11	11	5,540	**6,225**
Lettuce	12	12	3,629	**5,453**
Palms, potted	13	13	3,613	**3,736**
Dendrobiums, potted	14	14	3,468	**3,400**
Onions, dry	20	15	2,223	**3,267**
Dracaena, potted	17	16	2,752	**3,164**
Honey	21	17	2,118	**3,137**
Anthuriums, cut	15	18	3,143	**3,115**
Cabbage, head	16	19	3,107	**2,790**
Taro	18	20	2,516	**2,747**

[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, 1992-2011

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Diversified agriculture [1]	Total [2]
	1,000 dollars			
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]	674,590
2011	**78,100**	**[3]**	**[3]**	**719,474**

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

Diversified agriculture ranked by value, State of Hawaii, 2010-2011

Commodity	Rank 2010	Rank 2011	Value of production 2010	Value of production 2011	Year-to-year percent change	Percent of diversified agriculture [1] 2010	Percent of diversified agriculture [1] 2011
	--- Number ---		----- 1,000 dollars -----		---------- Percent ----------		
Seed crops	1	**1**	239,375	**242,970**	+2	47.4	**44.9**
Flowers and nursery products	2	**2**	71,100	**69,600**	-2	14.1	**12.9**
Cattle	4	**3**	30,892	**46,369**	+50	6.1	**8.6**
Aquaculture	6	**4**	29,970	**39,970**	+33	5.9	**7.4**
Macadamia nuts	5	**5**	30,000	**38,220**	+27	6.0	**7.1**
Coffee	3	**6**	33,440	**31,540**	-6	6.6	**5.8**
Vegetables and melons [2]	7	**7**	24,939	**28,822**	+16	4.9	**5.3**
Fruits (excluding pineapples)	8	**8**	22,531	**21,915**	-3	4.5	**4.0**
Milk	10	**9**	8,750	**9,547**	+9	1.7	**1.8**
Herbs	9	**10**	10,806	**9,475**	-12	2.1	**1.7**
Hogs	11	**11**	3,661	**2,624**	-28	.7	**.5**
Total			[3] 505,464	**541,052**		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, 2007-2011

Year	Sugarcane	Pineapples [1]	Vegetables and melons [2]	Fruits (excluding pineapples)	Coffee	Macadamia nuts	All other crops [3]	Total farm acreage [4]
				1,000 acres				
State [5]								
2007	39.3	[6]	3.3	6.5	7.8	17.0	20.5	1,120
2008	39.7	[6]	2.1	4.1	7.8	17.0	20.7	1,110
2009	39.6	[6]	2.1	3.9	8.0	17.0	20.9	1,110
2010	34.5	[6]	2.7	4.1	8.0	17.0	20.3	1,110
2011	**34.3**	**[6]**	**2.7**	**3.9**	**8.0**	**17.0**	**19.2**	**1,110**
County:								
Hawaii								
2007	0	[6]	.9	4.3	3.8	[7]	3.2	680
2008	0	[6]	.8	3.0	3.8	[7]	3.1	670
2009	0	[6]	[8]	[8]	[7]	[7]	[8]	[8]
2010	0	[6]	[8]	[8]	[7]	[7]	[8]	[8]
2011	**0**	**[6]**	[8]	[8]	**[7]**	**[7]**	[8]	[8]
Honolulu								
2007	0	[6]	1.6	.9	[9] 4.0	[7]	8.1	60
2008	0	[6]	.9	.6	[9] 4.0	[7]	9.5	60
2009	0	[6]	[8]	[8]	[7]	[7]	[8]	[8]
2010	0	[6]	[8]	[8]	[7]	[7]	[8]	[8]
2011	**0**	**[6]**	[8]	[8]	**[7]**	**[7]**	[8]	[8]
Kauai								
2007	6.9	[6]	.1	.7	[9]	[7]	2.5	150
2008	5.2	[6]	*	.2	[9]	[7]	2.3	150
2009	5.2	[6]	[8]	[8]	[7]	[7]	[8]	[8]
2010	0	[6]	[8]	[8]	[7]	[7]	[8]	[8]
2011	**0**	**[6]**	[8]	[8]	**[7]**	**[7]**	[8]	[8]
Maui								
2007	32.4	[6]	.7	.6	[9]	[7]	6.7	230
2008	34.5	[6]	.4	.3	[9]	[7]	5.8	230
2009	34.4	[6]	[8]	[8]	[7]	[7]	[8]	[8]
2010	34.5	[6]	[8]	[8]	[7]	[7]	[8]	[8]
2011	**34.3**	**[6]**	[8]	[8]	**[7]**	**[7]**	[8]	[8]

* Less than 50 acres
[1] Land used for pineapple.
[2] Harvested acreage.
[3] 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.
[4] Includes land not in crop and pasture such as farm house lots, roads, woodlots, etc.
[5] Sum of county estimates may not add to State total due to rounding.
[6] Data not shown separately to avoid disclosure of individual operations but combined and included with “All other crops”.
[7] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.
[8] County estimates not published due to staff reduction-in-force but combined and included in the State total.
[9] Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.

SUMMARY: Number of Crop Farms, by County, 2007-2011

Year	Sugarcane	Pineapples [1]	Vegetables and melons [2]	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Taro	Flowers and nursery products
State								
2007	2	40	650	1,300	830	570	105	1,060
2008	2	40	540	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
2011	**1**	**30**	**540**	**1,600**	**830**	**570**	**115**	**970**
County:								
Hawaii								
2007	0	18	230	690	790	525	25	475
2008	0	18	210	880	790	525	25	465
2009	0	[3]	[3]	[3]	[4]	[3]	[3]	[3]
2010	0	[3]	[3]	[3]	[4]	[3]	[3]	[3]
2011	**0**	[3]	[3]	[3]	[4]	[3]	[3]	[3]
Honolulu								
2007	0	1	230	160	3	5	15	285
2008	0	1	180	155	3	5	20	270
2009	0	[3]	[3]	[3]	[4]	[3]	[3]	[3]
2010	0	[3]	[3]	[3]	[4]	[3]	[3]	[3]
2011	**0**	[3]	[3]	[3]	[4]	[3]	[3]	[3]
Kauai								
2007	1	12	70	190	7	20	45	90
2008	1	12	48	195	5	20	45	90
2009	1	[3]	[3]	[3]	[4]	[3]	[3]	[3]
2010	0	[3]	[3]	[3]	[4]	[3]	[3]	[3]
2011	**0**	[3]	[3]	[3]	[4]	[3]	[3]	[3]
Maui								
2007	1	9	120	260	30	20	20	210
2008	1	9	102	270	32	20	15	200
2009	1	[3]	[3]	[3]	[4]	[3]	[3]	[3]
2010	1	[3]	[3]	[3]	[4]	[3]	[3]	[3]
2011	**1**	[3]	[3]	[3]	[4]	[3]	[3]	[3]

[1] Includes specialty pineapple.
[2] Beginning 2007, ginger root, herbs, noni, kava (‘awa) and others combined and included in the Total (non-duplicated).
[3] County estimates not published due to staff reduction-in-force but combined and included in the State total.
[4] 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, 2007-2011

Year	Cattle [1]	Hogs	Milk	Eggs	Honey [2]	Total (non-duplicated) [3]
State						
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
2011	**1,000**	**230**	**15**	**[4]**	**35**	**7,500**
County:						
Hawaii						
2007	730	70	6	50	18	4,650
2008	680	70	6	65	18	4,650
2009 [5]						
2010 [5]						
2011 [5]						
Honolulu						
2007	60	70	3	15	14	950
2008	50	70	3	15	9	950
2009 [5]						
2010 [5]						
2011 [5]						
Kauai						
2007	130	30	1	5	5	750
2008	120	30	1	5	5	750
2009 [5]						
2010 [5]						
2011 [5]						
Maui						
2007	180	60	5	10	3	1,150
2008	150	60	5	15	3	1,150
2009 [5]						
2010 [5]						
2011 [5]						

[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] Data not shown separately to avoid disclosure of individual operations.
[5] 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, 2007-2011

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables, ginger root, herbs, and melons [1]	Fruits (excluding pineapples)	Coffee (parchment)
			1,000 dollars		
State [4]					
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
2011	**78,100**	**[5]**	**28,822**	**21,915**	**31,540**
County:					
Hawaii					
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]
2011	**0**	**[5]**	**[7]**	**[7]**	**[6]**
Honolulu					
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]
2011	**0**	**[5]**	**[7]**	**[7]**	**[6]**
Kauai					
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]
2011	**0**	**[5]**	**[7]**	**[7]**	**[6]**
Maui					
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]
2011	**78,100**	**[5]**	**[7]**	**[7]**	**[6]**

See footnotes at end of table.

Continued

SUMMARY: Value of Crop Sales, by County, 2007-2011 -- Continued

Year	Macadami nuts (in-shell)	Taro	Seed crops	Flowers and nursery products [2]	Total crops [3]
			1,000 dollars		
State [4]					
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	239,375	71,100	583,680
2011	**38,200**	**2,747**	**242,970**	**69,600**	**602,881**
County:					
Hawaii					
2007	[6]	173	[6]	51,192	140,895
2008	[6]	127	[6]	41,238	137,086
2009 [7]					
2010 [7]					
2011 [7]					
Honolulu					
2007	[6]	[9] 563	[6]	40,625	140,811
2008	[6]	[9] 487	[6]	35,362	166,679
2009 [7]					
2010 [7]					
2011 [7]					
Kauai					
2007	[6]	1,624	[6]	3,556	65,989
2008	[6]	2,052	[6]	3,949	74,646
2009 [7]					
2010 [7]					
2011 [7]					
Maui					
2007	[6]	[9]	[6]	13,337	150,643
2008	[6]	[9]	[6]	14,113	143,728
2009 [7]					
2010 [7]					
2011 [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, 2007-2011

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]								
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	30,892	3,661	8,750	8,760	29,970	90,910	674,590	16,175
2011	**46,369**	**2,624**	**9,547**	[5]	**39,970**	**116,593**	**719,474**	**16,904**
County:								
Hawaii								
2007	19,676	185	[6]	[6]	20,013	52,690	193,585	NA
2008	16,493	171	[6]	[6]	27,836	56,275	193,361	NA
2009 [7]								
2010 [7]								
2011 [7]								
Honolulu								
2007	942	1,974	[6]	[6]	[8] 5,097	17,788	158,599	NA
2008	358	1,860	[6]	[6]	[8] 6,814	16,876	183,555	NA
2009 [7]								
2010 [7]								
2011 [7]								
Kauai								
2007	1,318	638	[6]	[6]	[8]	3,098	69,087	NA
2008	1,959	578	[6]	[6]	[8]	3,269	77,915	NA
2009 [7]								
2010 [7]								
2011 [7]								
Maui								
2007	4,260	885	[6]	[6]	[8]	6,085	156,728	NA
2008	5,495	750	[6]	[6]	[8]	7,011	150,739	NA
2009 [7]								
2010 [7]								
2011 [7]								

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 total livestock and aquaculture total.
[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.

FOOD: U.S. Expenditures by Families and Individuals, Selected Years, 1935-2011 [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	365.4	51.5	14.1	12.6	3.4	64.0	17.5
1970	735.7	75.5	10.3	26.4	3.6	102.0	13.9
1980	2,009.0	180.8	9.0	85.2	4.2	266.0	13.2
1981	2,246.1	195.5	8.7	95.8	4.3	291.3	13.0
1982	2,421.2	201.0	8.3	104.5	4.3	305.5	12.6
1983	2,608.4	211.4	8.1	113.7	4.4	325.1	12.5
1984	2,912.0	224.0	7.7	121.9	4.2	345.8	11.9
1985	3,109.3	234.0	7.5	128.6	4.1	362.6	11.7
1986	3,285.1	242.7	7.4	137.9	4.2	380.6	11.6
1987	3,435.3	252.7	7.4	144.4	4.2	397.1	11.6
1988	3,726.3	271.7	7.3	155.5	4.2	427.2	11.5
1989	3,991.4	290.1	7.3	163.3	4.1	453.4	11.4
1990	4,254.0	314.5	7.4	175.2	4.1	489.6	11.5
1991	4,444.8	328.6	7.4	184.0	4.1	512.6	11.5
1992	4,736.7	332.1	7.0	190.8	4.0	522.9	11.0
1993	4,921.6	340.0	6.9	204.8	4.2	544.8	11.1
1994	5,184.3	352.9	6.8	215.4	4.2	568.2	11.0
1995	5,457.0	359.4	6.6	229.2	4.2	588.6	10.8
1996	5,759.6	374.2	6.5	232.1	4.0	606.3	10.5
1997	6,074.6	387.4	6.4	248.3	4.1	635.6	10.5
1998	6,498.9	396.1	6.1	260.9	4.0	657.0	10.1
1999	6,803.3	414.0	6.1	272.9	4.0	686.8	10.1
2000	7,327.2	431.6	5.9	292.9	4.0	724.5	9.9
2001	7,648.5	453.6	5.9	302.0	3.9	755.6	9.9
2002	8,009.7	474.7	5.9	307.7	3.8	782.4	9.8
2003	8,377.8	489.9	5.8	335.3	4.0	825.2	9.9
2004	8,889.4	509.1	5.7	350.4	3.9	859.4	9.7
2005	9,277.3	533.7	5.8	383.0	4.1	916.7	9.9
2006	9,915.7	552.0	5.6	410.9	4.1	962.9	9.7
2007	10,423.6	579.2	5.6	432.0	4.1	1,011.1	9.7
2008	11,024.5	607.5	5.5	443.8	4.0	1,051.4	9.5
2009	10,788.8	605.0	5.6	442.6	4.1	1,047.7	9.7
2010	11,179.7	622.0	5.6	458.1	4.1	1,080.2	9.7
2011	**11,593.5**	**659.4**	**5.7**	**479.9**	**4.1**	**1,139.3**	**9.8**

[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.	80.0	2011	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.	65.0	2011	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	1,300	2010	1955
Price [2]	¢/lb.	17.0	2011	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	15,100	2011	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	638.00	2011	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.	67.0	2011	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 5]	$/cwt.	81.10	2010	12.30	1946	1946
Hogs and pigs						
Dec. 1 inventory	Head	72,000	1965	11,500	2011	1960
Production (live weight)	1,000 lbs.	13,159	1978	3,096	2009	1960
Price [2 5]	$/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 [6]						
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.
[5] Beginning 2011, State level price discontinued due to program change.
[6] Beginning 2011, data not published to avoid disclosure of individual operations.

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, 2007-2011 [1]

Item [2]	2007	2008	2009	2010	2011
			1,000 dollars		
Value of crop production	516,512	511,602	561,316	618,065	**631,404**
Fruits and tree nuts	129,836	133,094	91,183	91,061	**99,670**
Vegetables	68,570	68,698	73,340	82,131	**82,362**
All other crops	317,579	309,176	395,218	443,102	**447,604**
Home consumption	527	634	1,575	1,771	**1,768**
Value of inventory adjustment [3]	0	0	0	0	**0**
Value of livestock production	64,902	61,679	71,876	67,236	**88,724**
Meat animals	29,878	27,664	31,941	34,554	**48,993**
Dairy products	9,673	5,460	7,491	8,750	**9,547**
Poultry and eggs	7,902	8,767	8,854	8,283	**NA**
Miscellaneous livestock	21,467	21,270	22,710	21,970	**31,329**
Home consumption	108	130	229	219	**264**
Value of inventory adjustment [3]	-4,126	-1,612	651	-6,540	**-1,409**
Revenues from services and forestry	70,189	80,513	77,836	84,395	**98,625**
Machine hire and customwork	8,900	10,041	13,374	12,686	**13,169**
Forest products sold	400	400	400	400	**400**
Other farm income	22,791	32,335	24,327	30,414	**41,206**
Gross imputed rental value of farm dwellings	38,098	37,737	39,735	40,895	**43,850**
Value of agricultural sector production	651,603	653,794	711,028	769,696	**818,753**
less: Purchased inputs	245,834	251,299	252,272	262,527	**294,846**
Farm origin	37,625	43,496	38,294	37,457	**46,306**
Feed purchased	19,610	25,425	23,103	21,623	**30,361**
Livestock and poultry purchased	65	93	59	72	**149**
Seed purchased	17,950	17,978	15,132	15,762	**15,796**
Manufactured inputs	88,090	88,778	93,208	106,894	**121,170**
Fertilizers and lime	30,238	30,799	33,179	35,893	**36,102**
Pesticides	17,238	17,143	19,146	24,688	**36,329**
Petroleum fuel and oils	23,619	23,789	22,454	26,089	**27,934**
Electricity	16,995	17,047	18,429	20,224	**20,805**
Other purchased inputs [4]	120,119	119,025	120,770	118,176	**127,370**
plus: Net government transactions [5]	-7,628	-5,677	-460	1,827	**2,037**
Gross value added	398,141	396,818	458,296	508,996	**525,944**
less: Capital consumption	44,813	47,845	54,158	55,235	**57,856**
Net value added	353,328	348,973	404,138	453,761	**468,088**
less: Payments to stakeholders	209,704	204,623	201,035	214,402	**236,847**
Employee compensation (total hired labor)	183,224	178,578	174,192	187,023	**209,065**
Net rent received by nonoperator landlords	5,133	5,523	5,498	6,610	**7,895**
Real estate and nonreal estate interest	21,347	20,522	21,345	20,769	**19,887**
Net farm income	143,624	144,350	203,103	239,359	**231,241**

NA = Not available.

[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 2011 was 183,000 tons of 96^0 raw sugar, an increase of 6 percent from the previous year. This was a reversal of eight years of declining raw sugar production levels. Sugar price during 2011 increased by 5 percent to $638 per ton which is the highest since 1974. Raw sugar, with a total value of $116.8 million, was up 12 percent from the 2010 level. Hawaii's one sugar plantation was able to harvest 1.3 million tons of sugarcane from 15,100 acres. The average yield for sugarcane harvested in 2011 was 85.2 tons per acre.

- **Coffee**
  For the 2011-2012 growing season, Hawaii coffee growers harvested 6,300 acres, unchanged for the fourth consecutive year. Acreage in crop at 8,000 acres was unchanged for the third straight year. Parchment equivalent coffee harvested was estimated at 7.6 million pounds, 14 percent less than the previous season. Yields averaged 1,210 pounds per acre, down 190 pounds from the 2010-2011 season. Coffee Berry Borer (CBB) remains a major concern for the coffee industry. Growers practiced prevention and sanitation to limit the insect spread by learning new management techniques. Harvesting and grading coffee was challenging. Cherry to parchment coffee ratio was higher this season as more cherry was needed to make parchment. Weather conditions were very dry for the 2011-2012 season also affecting the crop. The farm revenue for coffee is estimated at $31.5 million (parchment equivalent basis) for this season, 6 percent below last season. The Statewide farm price for coffee averaged $4.15 per pound (parchment equivalent basis) for the 2011-2012 season, 9 percent above the 2010-2011 season of $3.80 per pound. 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 2011-2012 utilized production of macadamia nuts is estimated at 49.0 million pounds net, wet-in-shell. This season's estimate is 23 percent more than the 2010-2011 season and rebounding after a two year decline. More rainfall, and at timely intervals, improved production for the 2011-2012 season compared to 2010-2011 season which was affected by drought conditions. Early flowering and better pollination helped increase yields. Low rainfall during the kernel development period had some affect on nut quality. The volcanic emissions are still affecting the crop.

  For the 2011-2012 season, growers harvested an estimated 15,000 acres, unchanged for the past five seasons. Statewide, there were 17,000 acres in crop and an estimated 1.2 million macadamia nut trees. Yields averaged 3,270 pounds per acre (net, wet-in-shell basis) for the 2011-2012 season, or 600 pounds more per acre than the 2010-2011 season. Average moisture content for this season's entire crop was 19.5 percent compared with 20.3 percent for the 2010-2011 crop.

  The farm price for macadamia nuts averaged 78.0 cents per pound on a net, wet-in-shell basis for the 2011-2012 crop season, 3.0 cents more than the 2010-2011 average and increasing for the fourth consecutive year. Higher price and more production contributed to the 27 percent rise in farm value from last season to $38.2 million this season.

COFFEE: Number of Farms, Acreage, Yield, Marketings, Price, and Value, by County, 2007/2008-2011/2012 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										
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
2011-2012	**830**	**8,000**	**6,300**	**1.2**	**7,600**			**415.0**	**31,540**	**6,100**
County:										
Hawaii										
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]										
2011-2012 [5]										
Honolulu/Kauai/Maui [6]										
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]										
2011-2012 [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, 2007/2008-2011/2012 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*
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]					
2011-2012 [2]					

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

GINGER ROOT: U.S. Imports, 2007-2011

Year	Unground (including fresh) [1]	Ground [2]	Sweet [3]	Candied [4]	Total
			1,000 pounds		
2007	[5] 75,082	3,206	9,468	4,568	[5] 92,324
2008	[5] 91,455	2,119	12,064	4,068	[5] 109,706
2009	[5] 92,101	1,651	10,972	3,569	[5] 108,293
2010	94,123	3,278	8,721	4,447	110,569
2011	**110,430**	**5,576**	**7,656**	**4,317**	**127,979**

[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, 2007-2011

Year	Basil			Parsley	Chinese parsley (Cilantro)	Other herbs [1]	All herbs
	Sweet (Italian)	Asian	Total				
Production – *1,000 pounds*							
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
2011	**1,400**	**2,800**	**4,200**	**[2]**	**[2]**	**1,200**	**5,400**
Farm price – *dollars per pound*							
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	
2011	**1.75**	**1.35**		**[2]**	**[2]**	**2.71**	
Farm value – *1,000 dollars*							
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
2011	**2,445**	**3,780**	**6,225**	**[2]**	**[2]**	**3,250**	**9,475**

[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, 2007/2008-2011/2012

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*		
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	6,205	1,925	4,275	5	10,230	239,375	229,830	9,545
2011-2012	**10**	**5,625**	**1,570**	**3,920**	**135**	**12,540**	**242,970**	**229,985**	**12,985**

[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, 2007-2011 [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								
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
2011	**1**	**34.3**	**15.1**	**85.2**	**12.10**	**1,287**	**60.70**	**78.1**
County:								
Kauai								
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
2011	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Maui								
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
2011	**1**	**34.3**	**15.1**	**85.2**	**12.10**	**1,287**	**60.70**	**78.1**

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

SUGAR: Production of Raw Sugar and Molasses, Price, and Value, by County, 2007-2011 [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							
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
2011	**183**	**51**	**638**	**164.4**	**116.8**	**8.4**	**125.2**
County:							
Kauai							
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
2011	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Maui							
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
2011	**183**	**51**	**638**	**164.4**	**116.8**	**8.4**	**125.2**

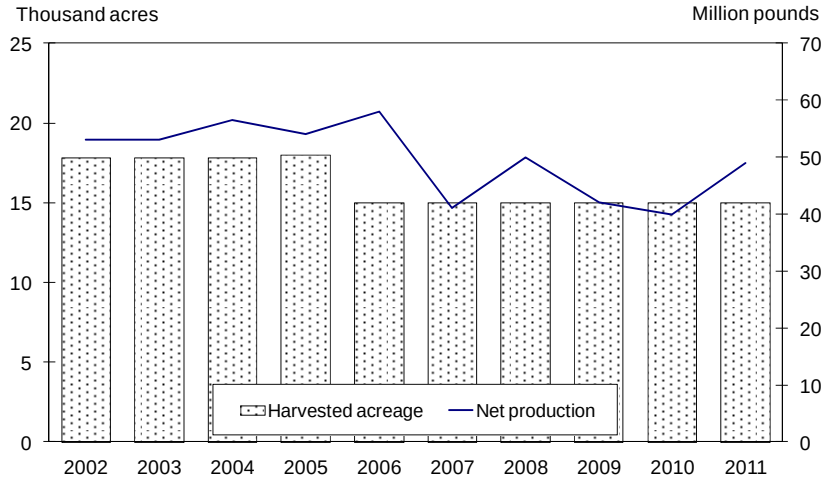
[1] Primary data source, Hawaii Agricultural Research Center.
[2] Derived from production and value. State and county prices may not compute exactly due to rounding.
[3] Commercial.

MACADAMIA NUTS: Number of Farms, Acreage, Yield, Production, Moisture, Price, and Value, State of Hawaii, 2007/2008-2011/2012 Crop Years

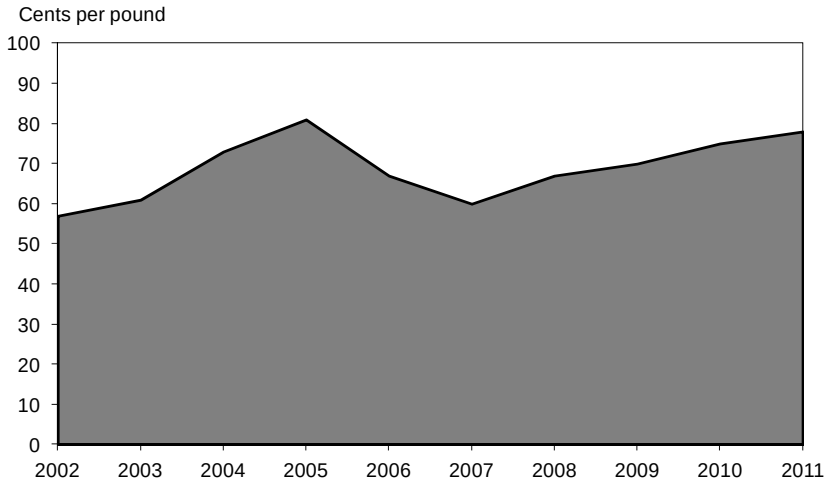
Crop year [1]	Farms	Acreage		Yield per acre [2]	Utilized production [3]		Average moisture		Farm prices [3]		Farm value [6]
		In crop	Harvested		Gross	Net [4]	Entire crop	Purchases only	Gross [5]	Net	
	Number	*Acres*		*1,000 pounds*			*Percent*		*Cents per pound*		*1,000 dollars*
2007-2008	570	17,000	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
2011-2012	**570**	**17,000**	**15,000**	**3.3**	**58,000**	**49,000**	**19.5**	**20.1**	**65.9**	**78.0**	**38,220**

[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, 2002-2011 Seasons



MACADAMIA NUTS: Net, Wet-In-Shell Farm Prices, State of Hawaii, 2002-2011 Seasons



The 2011 preliminary value of Hawaii's floriculture and nursery products is estimated at $69.6 million, 2 percent lower than the revised 2010 value. Sales have been in decline for the fourth straight year after reaching a record high $108.7 million in 2007.

FLORICULTURE AND NURSERY PRODUCTS: Value of Grower Sales, by County, 2007-2011 [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								
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	7,007	15,117	2,437	10,180	2,974	31,885	1,500	71,100
2011	**6,584**	**14,515**	**2,420**	**10,385**	**3,324**	**30,922**	**1,450**	**69,600**
County:								
Hawaii								
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]								
2011 [7]								
Honolulu								
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]								
2011 [7]								
Kauai								
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]								
2011 [7]								
Maui								
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]								
2011 [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, 2007-2011 [1]

Crop	Farms having sales [2]	Quantity sold	Value of sales
	Number	*1,000*	*1,000 dollars*
CUT FLOWERS			
Anthuriums - *dozens*			
2007	56	667	4,530
2008	48	525	3,518
2009	40	449	3,120
2010	45	408	3,143
2011	**39**	**398**	**3,115**
Birds of Paradise - *dozens*			
2007	31	28	207
2008	25	25	175
2009	20	16	129
2010	22	12	94
2011	**21**	**14**	**111**
Chrysanthemums, pompon - *bunches*			
2007	5	201	452
2008	5	191	437
2009 [3]			
2010 [3]			
2011 [3]			
Ginger, pink - *dozens*			
2007	46	52	431
2008	45	47	394
2009	33	42	346
2010	37	46	316
2011	**34**	**30**	**239**
Ginger, red - *dozens*			
2007	59	118	952
2008	51	105	789
2009	42	76	576
2010	40	70	444
2011	**41**	**66**	**463**
Gingers, other - *dozens*			
2007	19	15	139
2008	20	11	104
2009	17	8	62
2010	20	11	98
2011	**15**	**8**	**105**
Heliconias - *dozens*			
2007	61	67	772
2008	55	62	670
2009	45	51	631
2010	47	50	645
2011	**44**	**42**	**558**

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2007-2011 [1] -- Continued

Crop	Farms having sales [2]	Quantity sold	Value of sales
	Number	*1,000*	*1,000 dollars*
Proteas - *stems*			
2007	30	1,932	2,098
2008	25	1,380	1,329
2009	20	1,245	1,374
2010	21	1,204	1,288
2011	**25**	**997**	**945**
Other cut flowers - *dozens*			
2007	46	NA	2,589
2008	51	NA	2,162
2009	27	NA	1,010
2010	27	NA	979
2011	**29**	**NA**	**1,048**
ORCHIDS			
Cymbidiums, cut			
2007	10	407	243
2008	7	200	222
2009	9	210	226
2010	7	172	212
2011	**9**	**169**	**235**
Dendrobiums, cut - *dozens*			
2007	36	303	2,260
2008	38	280	2,170
2009	31	203	1,660
2010	32	192	1,562
2011	**30**	**191**	**1,561**
Oncidiinae, cut [4] - *dozens*			
2007	20	48	535
2008	19	49	530
2009	15	29	348
2010	22	35	443
2011	**19**	**30**	**441**
Other cut orchids - *dozens*			
2007	15	NA	727
2008	22	NA	298
2009	15	NA	317
2010	16	NA	410
2011	**13**	**NA**	**346**

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2007-2011 [1] -- Continued

Crop	Farms having sales [2]	Quantity sold	Value of sales
	Number	*1,000*	*1,000 dollars*
Dendrobiums, potted			
2007	60	911	5,092
2008	61	753	4,111
2009	59	632	3,577
2010	64	599	3,468
2011	**59**	**545**	**3,400**
Dendrobiums, seedlings [5]			
2007	7	NA	343
2008	10	NA	353
2009	4	NA	333
2010 [6]			
2011 [6]			
Oncidiinae, potted [4]			
2007	44	521	3,673
2008	43	402	3,087
2009 [3]			
2010 [3]			
2011 [3]			
Phalaenopsis, potted			
2007	19	139	1,029
2008	23	119	945
2009	26	129	955
2010	23	149	1,072
2011	**22**	**143**	**1,067**
Other potted orchids			
2007	63	1,428	7,640
2008	62	1,090	6,453
2009	71	1,187	8,464
2010	81	1,113	7,950
2011	**73**	**1,103**	**7,465**

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2007-2011 [1] -- Continued

Crop	Farms having sales [2]	Quantity sold	Value of sales
	Number	*1,000*	*1,000 dollars*
FOLIAGE			
Dracaena, potted			
2007	29	NA	6,010
2008	26	NA	3,919
2009	23	NA	2,516
2010	22	NA	2,752
2011	**22**	**NA**	**3,164**
Palms, potted			
2007	39	NA	8,698
2008	35	NA	6,635
2009	30	NA	5,126
2010	32	NA	3,613
2011	**25**	**NA**	**3,736**
Hanging baskets, potted			
2007	11	NA	132
2008	10	NA	69
2009	10	NA	96
2010	10	NA	69
2011	**8**	**NA**	**72**
Other potted foliage			
2007	32	NA	3,763
2008	28	NA	3,443
2009	40	NA	3,257
2010	25	NA	2,531
2011	**23**	**NA**	**2,515**
Ti leaves, cut - *leaves*			
2007	35	3,800	387
2008	41	3,300	316
2009	36	2,400	241
2010	39	4,100	439
2011	**33**	**3,500**	**364**
Other cut greens			
2007	40	NA	547
2008	40	NA	421
2009	26	NA	314
2010	29	NA	776
2011	**30**	**NA**	**534**
Unfinished foliage stock			
2007	9	NA	537
2008	6	NA	146
2009	14	NA	593
2010 [3]			
2011 [3]			

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2007-2011 [1] -- Continued

Crop	Farms having sales [2]	Quantity sold	Value of sales
	Number	*1,000*	*1,000 dollars*
LEI/INDIVIDUAL BLOOMS			
Dendrobiums - *blooms*			
2007	20	8,500	282
2008	22	9,700	328
2009	16	7,000	238
2010	19	5,800	195
2011	**19**	**8,700**	**290**
Pikake - *strands*			
2007	5	65.0	183
2008	5	56.0	167
2009 [3]			
2010 [3]			
2011 [3]			
Plumerias - *blooms*			
2007	15	12,800	566
2008	11	9,500	400
2009	9	6,100	285
2010	12	6,100	306
2011	**10**	**7,500**	**312**
Vandaceous [7] - *blooms*			
2007	4	7,400	331
2008 [3]			
2009 [3]			
2010 [3]			
2011 [3]			
Other lei/individual - *blooms*			
2007	NA	NA	3,347
2008	NA	NA	2,888
2009	NA	NA	2,035
2010	NA	NA	1,936
2011	**NA**	**NA**	**1,818**

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2007-2011 [1] -- Continued

Crop	Farms having sales [2]	Quantity sold	Value of sales
	Number	*1,000*	*1,000 dollars*
POTTED FLOWERING PLANTS			
Anthuriums			
2007	13	101	379
2008	15	27	204
2009	16	34	298
2010	17	29	248
2011	**17**	**35**	**285**
Bromeliads			
2007	9	191	818
2008	10	45	279
2009	7	40	250
2010	9	25	158
2011	**8**	**11**	**100**
Poinsettias			
2007	20	291	1,306
2008	19	270	1,376
2009	21	303	1,414
2010	18	274	1,275
2011	**18**	**255**	**1,239**
Other potted flowering plants			
2007	27	NA	3,996
2008	30	NA	2,285
2009	30	NA	2,010
2010	24	NA	1,293
2011	**22**	**NA**	**1,700**
POTTED BEDDING/GARDEN			
Impatiens, New Guinea			
2007	8	111	155
2008	8	106	165
2009	9	106	182
2010	8	108	186
2011	**11**	**116**	**205**
Impatiens, other			
2007	8	203	114
2008	6	116	61
2009	9	208	115
2010	7	253	156
2011	**8**	**256**	**162**
Other bedding/garden			
2007	19	NA	3,130
2008	24	NA	2,640
2009	19	NA	2,591
2010	17	NA	2,316
2011	**17**	**NA**	**2,371**

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2007-2011 [1] -- Continued

Crop	Farms having sales [2]	Quantity sold	Value of sales
	Number	*1,000*	*1,000 dollars*
PLANT RENTALS			
2007	43	NA	6,830
2008	56	NA	5,943
2009	39	NA	5,279
2010	47	NA	4,922
2011	**47**	**NA**	**5,027**
LANDSCAPE PLANT MATERIAL [8]			
2007	164		27,660
2008	163		29,112
2009	119		22,318
2010	130		22,793
2011	**133**		**20,401**
OTHER NURSERY PRODUCTS [9]			
2007			4,107
2008			4,318
2009			2,978
2010			3,512
2011			**2,756**
UNSPECIFIED SALES [10]			
2007			1,720
2008			1,800
2009			1,550
2010			1,500
2011			**1,450**
TOTAL			
2007	1,060		108,710
2008	1,025		94,662
2009	1,010		76,814
2010	970		71,100
2011	**970**		**69,600**

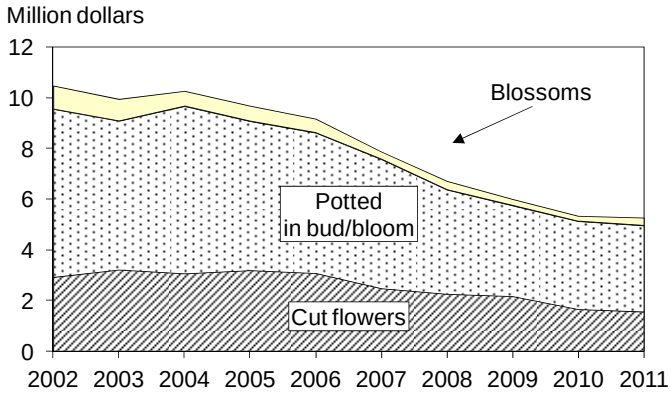
NA = Not available.
[1] Includes only producers having total sales of $10,000 or more.
[2] Number of farms having sales during that year; "Total" is unduplicated count.
[3] Data not shown separately to avoid disclosure of individual operations but combined and included with "Other" category in each section.
[4] Prior to 2007, formerly called Oncidium.
[5] Includes community pots, liners, tissue culture flasks, plugs, etc.
[6] Data not shown separately to avoid disclosure of individual operations but combined and included with "Other Nursery Products".
[7] Prior to 2007, formerly called Vanda, Miss Joaquim.
[8] 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.
[9] Includes other flowers or nursery products not elsewhere classified.
[10] 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, 2007-2011

Year	Farms	Greenhouse[1]	Artificial shade	Open field	Total area
	Number	*---------- 1,000 square feet ----------*		*---------- Acres ----------*	
State					
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	1,875	20,940	2,120	2,650
2011	**970**	**1,770**	**19,990**	**2,195**	**2,695**
County:					
Hawaii					
2007	475	1,435	19,805	2,200	2,688
2008	465	1,520	18,100	1,080	1,530
2009 [2]					
2010 [2]					
2011 [2]					
Honolulu					
2007	285	140	4,215	695	795
2008	270	165	4,270	600	700
2009 [2]					
2010 [2]					
2011 [2]					
Kauai					
2007	90	90	505	220	234
2008	90	155	500	240	255
2009 [2]					
2010 [2]					
2011 [2]					
Maui					
2007	210	355	490	640	659
2008	200	280	700	660	685
2009 [2]					
2010 [2]					
2011 [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, 2002-2011 [1]



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

DENDROBIUM ORCHIDS: Sales and Value, State of Hawaii, 2007-2011 [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 ------*	
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	5.8	195	192	1,562	599	3,468	NA	[4]	5,225
2011	**8.7**	**290**	**191**	**1,561**	**545**	**3,400**	**NA**	[4]	**5,251**

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, 2007-2011 [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 ----------*		
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	64	2,320	1,915	4,235
2011	**30**	**59**	**2,650**	**1,695**	**4,345**

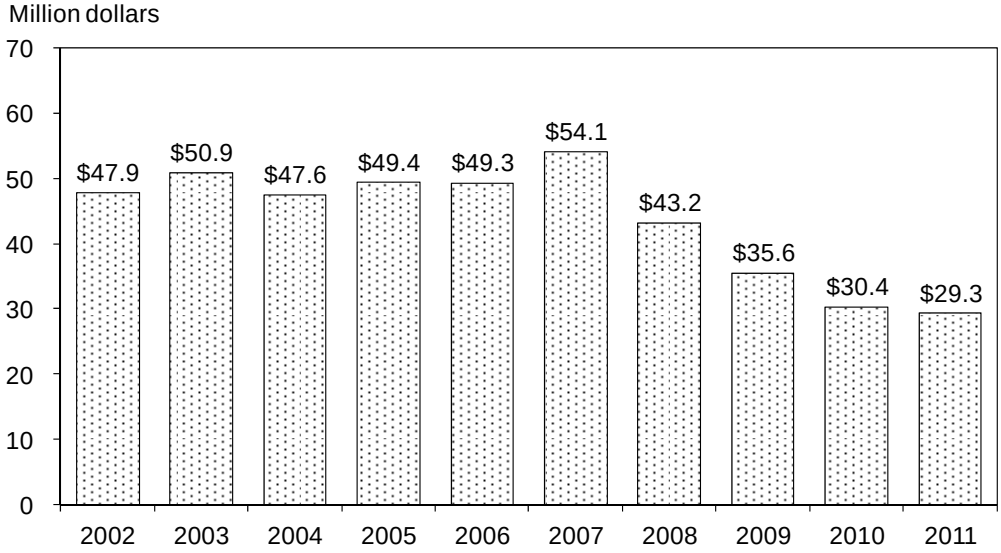
[1] Includes only producers with $10,000 or more in total sales.
[2] Prior to 2007, formerly called cut sprays.

FLORICULTURE AND NURSERY PRODUCTS: Out-of-State Sales, State of Hawaii, 2007-2011 [1]

Commodity	2007	2008	2009	2010	2011
			1,000 dollars		
CUT FLOWERS					
Anthuriums	6,905	5,800	4,720	4,500	**4,200**
Birds of Paradise	390	370	310	260	**280**
Ginger, red	520	510	400	320	**300**
Gingers, other	510	470	500	480	**400**
Heliconias	1,100	1,000	900	900	**800**
Proteas	2,040	1,500	1,500	1,400	**1,200**
Mixed assortment of cut flowers	3,910	3,890	3,000	2,000	**1,500**
ORCHIDS					
Cymbidiums, cut	140	125	160	180	**180**
Dendrobiums, cut	3,200	3,100	2,500	2,400	**2,400**
Oncidiinae, cut [2]	485	680	470	530	**500**
Dendrobiums, potted	3,100	1,900	1,800	1,400	**1,100**
Oncidiinae, potted [2]	2,920	3,720	[3]	[3]	**[3]**
Phalaenopsis, potted	325	400	580	400	**600**
Other potted orchids	7,975	5,765	6,660	5,700	**5,500**
FOLIAGE					
Foliage, potted	14,000	9,400	7,700	6,500	**7,000**
Ti leaves, cut	500	500	370	400	**380**
Other cut greens	1,400	1,300	1,100	1,000	**1,000**
ALL OTHER FLOWERS AND NURSERY PRODUCTS	4,700	2,800	2,900	2,000	**2,000**
Total	54,120	43,230	35,570	30,370	**29,340**

[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, 2002-2011 [1]



[1] Includes wholesale and retail sales.

2011 FRUIT HIGHLIGHTS

Hawaii avocado, banana, guava, and papaya growers collectively harvested 48.6 million pounds of fruit for fresh and processed utilization in 2011. This was a 3 percent decline when compared to the 2010 totals. The overall value of these 4 fruits totaled $21.9 million, slipping 3 percent from the previous year. In 2011, fruit acreage totaled 3,910 acres, 4 percent less than the prior year's total. Harvested area was down 5 percent from 2010 to 2,760 acres in 2011.

- **Avocado**
  Avocado production for 2011 is estimated at 700 thousand pounds, up 6 percent from 2010. Both in crop acreage and harvested acreage were 20 acres above the previous year totaling 460 and 350 acres, respectively. Average yields remained unchanged from 2010 at 2,000 pounds per acre in 2011. Dry weather continued to hamper the crop in 2011 affecting progress, fruit size, and fruit quality. Growers also mentioned the volcanic haze had affected flowering and fruit set. Farm price averaged 80.0 cents per pound for the 2011 crop, up 3.0 cents from the previous year. The value totaled $560 thousand for the year, increasing 10 percent from 2010.

- **Banana**
  Fresh market banana utilization in 2011 totaled 17.4 million pounds, a decrease of 2 percent from 2010. Indications from the Hawaii Fresh Fruit Survey also revealed a 7 percent decrease in Statewide banana acreage from 1,400 acres in 2010 to 1,300 acres in 2011. Weather conditions during the 2011 growing season varied by location; however, many areas experienced a lack of water due to drought conditions and irrigation was necessary to maintain the crop. Banana yield increased 7 percent to 17,400 pounds per acre, up from 16,200 in 2010. Producers received an average 65.0 cents per pound for fresh banana in 2011 or 5.0 cents per pound above the previous year. If this preliminary price holds, it will be a new State record high surpassing the previous record set in 2010. Sales totaled $11.3 million or 6 percent higher than the previous year.

- **Guava**
  The output of processed guava for 2011 was estimated at 1.9 million pounds or 46 percent above 2010's crop. In crop acreage was unchanged from the previous year, while harvested acres dropped by 5 acres. The 2011 value of sales was estimated at $323 thousand, rising 47 percent from 2010 levels. Weather for 2011 was generally dry, but not as severe as 2010.

- **Papaya**
  Papaya utilization for 2011 is estimated at 28.6 million pounds, down 5 percent from 2010. Fresh utilization accounted for 97 percent of the total or 27.7 million pounds, 5 percent below a year ago. Acreage in crop fell by 75 acres to 2,000 acres and harvested acreage decreased by 50 acres. The papaya value decreased 13 percent to $9.7 million mainly due to lower prices and limited sales. After a decade of waiting for clearance, commercial shipments of genetically modified papayas from Hawaii have been approved for export to Japan.

MARKET SUPPLY: Fresh Market Fruits, State of Hawaii, 2007-2011 [1 2]

Commodity		2007	2008	2009	2010	2011	Hawaii market share 2011
		1,000 pounds					Percent
Apples:	Inshipments	16,269	15,413	[2]	[2]	**[2]**	
Avocados:	Inshipments	2,332	1,971	[2]	[2]	**[2]**	
	Hawaii	1,160	1,000	1,040	660	**700**	
Bananas:	Inshipments	16,028	19,552	[2]	[2]	**[2]**	
	Hawaii	25,600	17,400	18,500	17,800	**17,400**	
Cantaloupe melons:	Inshipments	7,410	6,241	[2]	[2]	**[2]**	
	Hawaii [3]						
Grapefruit:	Inshipments	1,600	1,307	[2]	[2]	**[2]**	
	Hawaii	30	46	[4]	[4]	**[4]**	
Grapes:	Inshipments	9,584	9,149	[2]	[2]	**[2]**	
Honeydew melons:	Inshipments	3,905	3,204	[2]	[2]	**[2]**	
	Hawaii [3]						
Lemons:	Inshipments	4,035	3,501	[2]	[2]	**[2]**	
	Hawaii	33	55	[4]	[4]	**[4]**	
Limes:	Inshipments	2,139	1,957	[2]	[2]	**[2]**	
	Hawaii	69	76	[4]	[4]	**[4]**	
Nectarines:	Inshipments	2,379	2,513	[2]	[2]	**[2]**	
Oranges:	Inshipments	10,671	12,381	[2]	[2]	**[2]**	
	Hawaii [3]						
Papayas:	Inshipments [5]						
	Hawaii [6]	18,650	16,960	17,170	[4]	**[4]**	
Pears:	Inshipments	5,018	4,776	[2]	[2]	**[2]**	
Tangerines:	Inshipments	1,460	2,000	[2]	[2]	**[2]**	
	Hawaii	89	98	[4]	[4]	**[4]**	
Watermelons:	Inshipments	4,007	3,772	[2]	[2]	**[2]**	
	Hawaii	13,100	[7]	[4]	[4]	**[4]**	
All other fruits:	Inshipments	17,010	12,478	[2]	[2]	**[2]**	
	Hawaii	7,709	[7]	[4]	[4]	**[4]**	
Unspecified fruits:	Inshipments [8]	11,751	10,463	[2]	[2]	**[2]**	
Total:	Inshipments	115,598	110,678	[2]	[2]	**[2]**	
	Hawaii	66,440	52,744	50,239	49,614	**48,984**	
	All	182,038	163,422	NA	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, 2007-2011 [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								
2007	25	10	5	500	300	22	1.34	29
2008 [5]								
2009 [6]								
2010 [6]								
2011 [6]								
Longan								
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]								
2011 [6]								
Lychee								
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]								
2011 [6]								
Mango								
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]								
2011 [6]								
Persimmon								
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]								
2011 [6]								
Rambutan								
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]								
2011 [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, 2007-2011 [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								
2007	--	185	65	[7]	[7]	197	--	309
2008	--	220	85	[7]	[7]	330	--	528
2009 [6]								
2010 [6]								
2011 [6]								
Total								
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]								
2011 [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] Beginning 2009, data series discontinued.

PINEAPPLES: Number of Farms, Acreage, Production, Disposition, Price, and Value, State of Hawaii, 2007-2011

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*
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]
2011	**30**	**[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, 2007-2011

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*		
2007	[5]	[5]	[4]	[4]
2008	[5]	[5]	[4]	[4]
2009 [5]				
2010 [5]				
2011 [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, 2007-2011

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*
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
2011	**280**	**460**	**350**	**2.0**	**700**	**80.0**	**560**

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

BANANAS: Number of Farms, Acreage, Yield, Production, Price, and Value, State of Hawaii, 2007-2011

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							
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
2011	**240**	**1,300**	**1,000**	**17.4**	**17,400**	**65.0**	**11,310**

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

PAPAYAS: Number of Farms, Acreage, Yield, Utilization, Price, and Value, by County, 2007-2011

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]											
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
2011	**172**	**2,000**	**1,300**	**22.0**	**28,600**	**27,700**	**900**	**35.0**	**3.0**	**34.0**	**9,722**
County:											
Hawaii											
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]											
2011 [6]											
Honolulu											
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]											
2011 [6]											
Kauai											
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]											
2011 [6]											
Maui											
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]											
2011 [6]											

[1] Average of monthly estimates through 2009; beginning 2010 total acres.
[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, 2007-2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres [1]													
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
2011	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**1,300**
Utilization (fresh and processed) – *1,000 pounds*													
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
2011	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**28,600**
Total fresh papaya utilization – *1,000 pounds*													
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
2011	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**27,700**
Intrastate fresh papaya utilization – *1,000 pounds*													
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]													
2011 [2]													
Outshipments of fresh papaya – *1,000 pounds*													
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]													
2011 [2]													
Farm price for fresh market sales (to all markets) – *cents per pound*													
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
2011	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**[2]**	**35.0**

[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, 2007-2011

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						
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
2011	**60**	**150**	**110**	**1,900**	**17.0**	**323**
County:						
Hawaii						
2007	45	155	140	[2]	[2]	[2]
2008	45	160	145	[2]	[2]	[2]
2009 [3]						
2010 [3]						
2011 [3]						
Honolulu/Kauai/Maui [4]						
2007	25	310	30	[2]	[2]	[2]
2008	15	20	15	[2]	[2]	[2]
2009 [3]						
2010 [3]						
2011 [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.

- **Vegetables and Melons**

Cumulative information for vegetables and melons are limited to published vegetable commodities due to confidentiality concerns. The following comments and data comparison will be for only the selected crops published on the following two market supply pages.

The farm gate value for 13 of Hawaii's selected vegetables and melons is estimated at $28.8 million in 2011, up 16 percent or $3.9 million from the 2010 amount for the same 13 crops. Cumulative production for theses 13 selected vegetables and melons was 43.1 million pounds, up 9 percent from 2010.

Dry conditions again 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 vegetable crop during 2011 was again sweet potatoes whose estimated production was 16.7 million pounds, up 4.1 million pounds or 33 percent above the previous year. Head cabbage was the second largest published vegetable volume crop estimated at 9.0 million pounds down 12 percent or 1.2 million pounds from 2010. Chinese cabbage had the third largest volume of published vegetables at 3.8 million pounds, down 1.3 million pounds or 25 percent which is attributed to lower harvested acreage and lower production per harvested acre. The largest volume gain measured in percent was dry onions which increased by 42 percent in 2011 compared to the prior year. Sweet potato volume placed second in percent increase at 33 percent.

The leading farm gate value of the published vegetables was estimated for sweet potatoes at $7.3 million, up $838 thousand or 13 percent from the previous year. Lettuce placed second in farm gate value at $5.5 million up $1.8 million or 50 percent compared to the 2010 season. Higher yield per harvested acre and higher farm gate prices were the main factors for the increase. Dry onion's farm gate value ranked third among published vegetables at $3.3 million up 47 percent or $1.0 million above 2010's values.

Due to confidentiality and disclosure reasons, we are not able to publish information concerning other vegetables and melons.

- **Taro**

Taro production is estimated at 4.1 million pounds in 2011, up 5 percent from 2010's estimate of 3.9 million pounds. The farm price increased 4 percent to an average of 67.0 cents per pound, while the value of sales increased 9 percent from 2010 to $2.7 million.

MARKET SUPPLY: Fresh Market Vegetables, State of Hawaii, 2007-2011 [1]

Commodity		2007	2008	2009	2010	2011	Hawaii market share 2011
		1,000 pounds					Percent
Beans, snap:	Inshipments	460	540	[1]	[1]	**[1]**	
	Hawaii	700	700	[2]	[2]	**[2]**	
Bittermelon:	Inshipments	123	74	[1]	[1]	**[1]**	
	Hawaii	150	140	360	140	**120**	
Broccoli:	Inshipments	5,535	5,205	[1]	[1]	**[1]**	
	Hawaii	390	360	300	[2]	**[2]**	
Burdock:	Inshipments	73	71	[1]	[1]	**[1]**	
	Hawaii [3]						
Cabbage, Chinese:	Inshipments	625	818	[1]	[1]	**[1]**	
	Hawaii [5]	6,300	5,600	5,500	5,100	**3,800**	
Cabbage, head:	Inshipments	2,540	2,329	[1]	[1]	**[1]**	
	Hawaii	10,400	9,400	8,700	10,200	**9,000**	
Cabbage, mustard:	Inshipments	223	282	[1]	[1]	**[1]**	
	Hawaii	1,400	1,300	1,300	1,200	**1,400**	
Carrots:	Inshipments	11,667	11,144	[1]	[1]	**[1]**	
	Hawaii [3]						
Cauliflower:	Inshipments	1,378	1,350	[1]	[1]	**[1]**	
	Hawaii [3]						
Celery:	Inshipments	5,192	5,133	[1]	[1]	**[1]**	
	Hawaii	510	360	[2]	[2]	**[2]**	
Corn, sweet:	Inshipments	806	611	[1]	[1]	**[1]**	
	Hawaii	2,400	2,200	[2]	[2]	**[2]**	
Cucumbers:	Inshipments	1,795	1,383	[1]	[1]	**[1]**	
	Hawaii	5,000	4,800	[2]	[2]	**[2]**	
Daikon:	Inshipments	2	6	[1]	[1]	**[1]**	
	Hawaii [3 4]						
Dasheen:	Inshipments	887	716	[1]	[1]	**[1]**	
	Hawaii [3]						
Eggplant:	Inshipments	970	734	[1]	[1]	**[1]**	
	Hawaii	760	900	1,300	1,500	**1,800**	
Ginger root:	Inshipments	394	928	[1]	[1]	**[1]**	
	Hawaii	2,800	1,800	1,600	[6]	**[6]**	
Lettuce [8]:	Inshipments	8,824	8,089	[1]	[1]	**[1]**	
	Hawaii	1,000	1,000	950	1,900	**2,050**	
Lotus root:	Inshipments	51	73	[1]	[1]	**[1]**	
	Hawaii [3]						
Onions, dry:	Inshipments	19,595	18,654	[1]	[1]	**[1]**	
	Hawaii	1,400	1,400	1,500	1,900	**2,700**	

See footnotes at end of table.

Continued

MARKET SUPPLY: Fresh Market Vegetables, State of Hawaii, 2007-2011 [1] -- Continued

Commodity		2007	2008	2009	2010	2011	Hawaii market share 2011
		1,000 pounds					Percent
Onions, green:	Inshipments	776	589	[1]	[1]	**[1]**	
	Hawaii	1,400	1,600	1,400	1,500	**1,400**	
Parsley, American:	Inshipments	231	271	[1]	[1]	**[1]**	
	Hawaii	140	100	[2]	[2]	**[2]**	
Peas, Chinese:	Inshipments	287	209	[1]	[1]	**[1]**	
	Hawaii [3]						
Peppers, green:	Inshipments	4,864	4,790	[1]	[1]	**[1]**	
	Hawaii	1,800	[2]	[2]	[2]	**[2]**	
Potatoes:	Inshipments [4]	24,392	22,291	[1]	[1]	**[1]**	
	Hawaii [3]						
Potatoes, sweet:	Inshipments	1,715	1,616	[1]	[1]	**[1]**	
	Hawaii	7,100	8,100	8,300	12,600	**16,700**	
Pumpkins:	Inshipments	419	903	[1]	[1]	**[1]**	
	Hawaii	470	90	[2]	[2]	**[2]**	
Radish:	Inshipments	9	0	[1]	[1]	**[1]**	
	Hawaii [3]						
Romaine:	Inshipments	10,937	9,334	[1]	[1]	**[1]**	
	Hawaii	1,200	1,000	800	1,400	**1,700**	
Squash, Italian:	Inshipments	1,845	1,738	[1]	[1]	**[1]**	
	Hawaii	1,200	1,480	1,170	1,070	**1,300**	
Squash, Oriental:	Inshipments	600	640	[1]	[1]	**[1]**	
	Hawaii	500	350	340	290	**270**	
Taro:	Inshipments	305	232	[1]	[1]	**[1]**	
	Hawaii [5]	100	100	100	100	**100**	
Tomatoes:	Inshipments	4,265	4,157	[1]	[1]	**[1]**	
	Hawaii	14,300	[2]	[2]	[2]	**[2]**	
Watercress:	Inshipments	13	4	[1]	[1]	**[1]**	
	Hawaii	770	750	820	780	**820**	
All other vegetables:	Inshipments	33,204	31,967	[1]	[1]	**[1]**	
	Hawaii [2]						
Unspecified vegetables:	Inshipments [7]	15,648	13,376	[1]	[1]	**[1]**	
Total:	Inshipments	160,650	150,257	[1]	[1]	**[1]**	
	Hawaii	83,650	77,485	79,498	87,081	**91,475**	
	All	244,300	227,742	NA	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, 2007-2011

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State [1]					
2007	130	5.4	700	103.0	721
2008	120	5.8	700	107.0	749
2009 [2]					
2010 [2]					
2011 [2]					
County:					
Hawaii/Kauai [3]					
2007	10	6.0	60	147.0	88
2008	10	7.0	70	127.0	89
2009 [2]					
2010 [2]					
2011 [2]					
Honolulu					
2007	70	5.4	380	122.0	464
2008	60	5.0	300	110.0	330
2009 [2]					
2010 [2]					
2011 [2]					
Maui					
2007	50	5.2	260	65.0	169
2008	50	6.6	330	100.0	330
2009 [2]					
2010 [2]					
2011 [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 combined with Hawaii to avoid disclosure of individual operations.

SNAP BEANS: Acreage, Production, and Price, State of Hawaii, 2007-2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres [1]													
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]													
2011 [2]													
Production – *1,000 pounds*													
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]													
2011 [2]													
Farm price – *cents per pound*													
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]													
2011 [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.

CHINESE CABBAGE: Acreage, Yield, Production, Price, and Value, by County, 2007-2011

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State [1]					
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
2011	**200**	**19.0**	**3,800**	**34.0**	**1,295**
County:					
Hawaii					
2007	180	25.3	4,560	30.0	1,368
2008	140	29.7	4,160	36.0	1,498
2009 [2]					
2010 [2]					
2011 [2]					
Honolulu/Kauai/Maui [3]					
2007	90	19.3	1,740	30.0	522
2008	80	18.0	1,440	32.1	462
2009 [2]					
2010 [2]					
2011 [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, 2007-2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
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
2011 [1]													**200**
Processing and fresh market:													
Production – *1,000 pounds*													
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
2011 [1]													**3,800**
Farm price – *cents per pound*													
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
2011 [1]													**34.0**

[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, 2007-2011

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State [1]					
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
2011	**430**	**20.9**	**9,000**	**31.0**	**2,790**
County:					
Hawaii/Honolulu/Kauai [2]					
2007	320	22.5	7,200	29.0	2,088
2008	300	20.3	6,100	30.0	1,830
2009 [3]					
2010 [3]					
2011 [3]					
Maui					
2007	120	26.7	3,200	29.0	928
2008	110	30.0	3,300	30.0	990
2009 [3]					
2010 [3]					
2011 [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, 2007-2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
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
2011 [1]													**430**
Production – *1,000 pounds*													
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
2011 [1]													**9,000**
Farm price – *cents per pound*													
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
2011 [1]													**31.0**

[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, 2007-2011

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		*Cents per pound*	*1,000 dollars*
State					
2007	25	20.4	510	44.0	224
2008	20	18.0	360	38.0	137
2009 [1]					
2010 [1]					
2011 [1]					

[1] Beginning 2009, data series discontinued.

SWEET CORN: Acreage, Yield, Production, Price, and Value, State of Hawaii, 2007-2011

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State					
2007	450	5.3	2,400	62.0	1,488
2008	400	5.5	2,200	56.0	1,232
2009 [1]					
2010 [1]					
2011 [1]					

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

SWEET CORN: Acreage, Production, and Price, State of Hawaii, 2007-2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
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]													
2011 [1]													
Production – *1,000 pounds*													
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]													
2011 [1]													
Farm price – *cents per pound*													
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]													
2011 [1]													

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

CUCUMBERS: Acreage, Yield, Production, Price, and Value, by County, 2007-2011

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State					
2007	310	16.1	5,000	50.0	2,500
2008	310	15.5	4,800	57.0	2,736
2009 [1]					
2010 [1]					
2011 [1]					
County:					
Hawaii/Kauai [2]					
2007	10	14.0	140	82.5	116
2008	15	9.3	140	85.0	119
2009 [1]					
2010 [1]					
2011 [1]					
Honolulu					
2007	110	16.4	1,800	49.0	882
2008	95	18.5	1,760	61.0	1,074
2009 [1]					
2010 [1]					
2011 [1]					
Maui					
2007	190	16.1	3,060	49.1	1,502
2008	200	14.5	2,900	53.2	1,543
2009 [1]					
2010 [1]					
2011 [1]					

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

CUCUMBERS: Acreage, Production, and Price, State of Hawaii, 2007-2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres [1]													
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]													
2011 [2]													
Production – *1,000 pounds*													
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]													
2011 [2]													
Farm price – *cents per pound*													
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]													
2011 [2]													

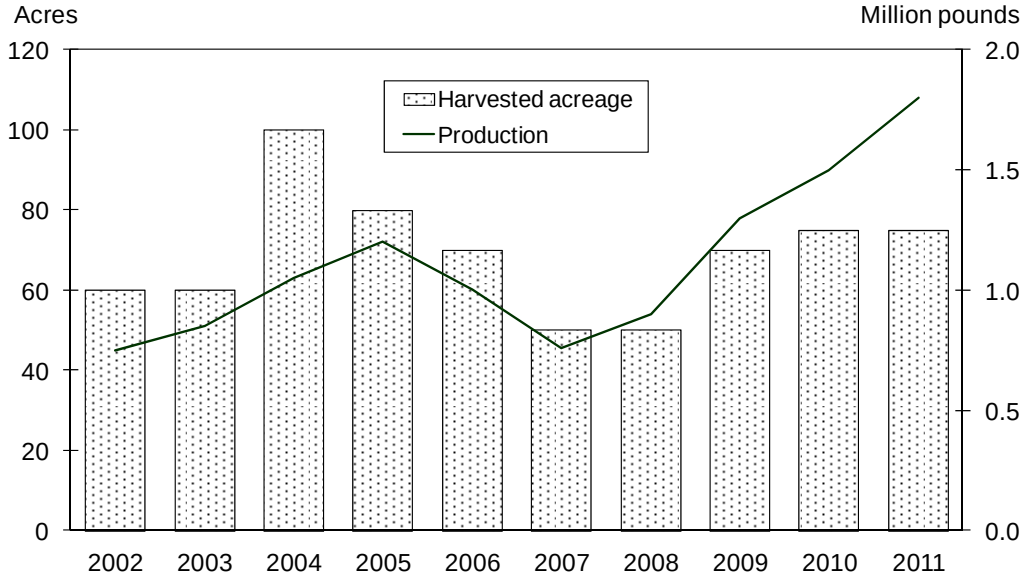
[1] Sum of monthly data exceeds total because harvest period longer than 1 month.
[2] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

EGGPLANT: Acreage, Yield, Production, Price, and Value, by County, 2007-2011

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State [1]					
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
2011	**75**	**24.0**	**1,800**	**98.0**	**1,764**
County:					
Hawaii/Kauai/Maui [2]					
2007	10	12.0	120	102.5	123
2008 [3]					
2009 [3]					
2010 [3]					
2011 [3]					
Honolulu					
2007	40	16.0	640	90.0	576
2008 [3]					
2009 [3]					
2010 [3]					
2011 [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, 2002-2011



LETTUCES (HEAD, SEMI-HEAD): Acreage, Yield, Production, Price, and Value, by County, 2007-2011

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State [1]					
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
2011	**140**	**14.6**	**2,050**	**266.0**	**5,453**
County:					
Hawaii					
2007	45	14.0	630	59.9	377
2008	40	14.8	590	61.0	360
2009 [2]					
2010 [2]					
2011 [2]					
Honolulu/Kauai/Maui [3]					
2007	55	6.7	370	89.9	333
2008	50	8.2	410	95.1	390
2009 [2]					
2010 [2]					
2011 [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, 2007-2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
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
2011 [1]													**140**
Production – *1,000 pounds*													
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
2011 [1]													**2,050**
Farm price – *cents per pound*													
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
2011 [1]													**266.0**

[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, 2007-2011

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State [1]					
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
2011	**130**	**20.8**	**2,700**	**121.0**	**3,267**
County:					
Hawaii/Honolulu/Kauai [2]					
2007	60	3.3	200	78.0	156
2008	70	4.3	300	78.2	235
2009 [3]					
2010 [3]					
2011 [3]					
Maui					
2007	100	12.0	1,200	127.0	1,524
2008	90	12.2	1,100	125.0	1,375
2009 [3]					
2010 [3]					
2011 [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, 2007-2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
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
2011 [1]													**130**
Production – *1,000 pounds*													
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
2011 [1]													**2,700**
Farm price – *cents per pound*													
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
2011 [1]													**121.0**

[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, 2007-2011

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State [1]					
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
2011	**125**	**11.2**	**1,400**	**139.0**	**1,946**
County:					
Hawaii/Kauai/Maui [2]					
2007	15	13.3	200	137.8	276
2008	20	15.0	300	145.5	437
2009 [3]					
2010 [3]					
2011 [3]					
Honolulu					
2007	120	10.0	1,200	110.0	1,320
2008	105	12.4	1,300	119.0	1,547
2009 [3]					
2010 [3]					
2011 [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, 2007-2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
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
2011 [1]													**125**
Production – *1,000 pounds*													
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
2011 [1]													**1,400**
Farm price – *cents per pound*													
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
2011 [1]													**139.0**

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

GREEN PEPPERS: Acreage, Yield, Production, Price, and Value, State of Hawaii, 2007-2011

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- *1,000 pounds* ----------		*Cents per pound*	*1,000 dollars*
2007	160	11.3	1,800	69.0	1,242
2008 [1]					
2009 [1]					
2010 [1]					
2011 [1]					

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

GREEN PEPPERS: Acreage, Production, and Price, State of Hawaii, 2007-2011

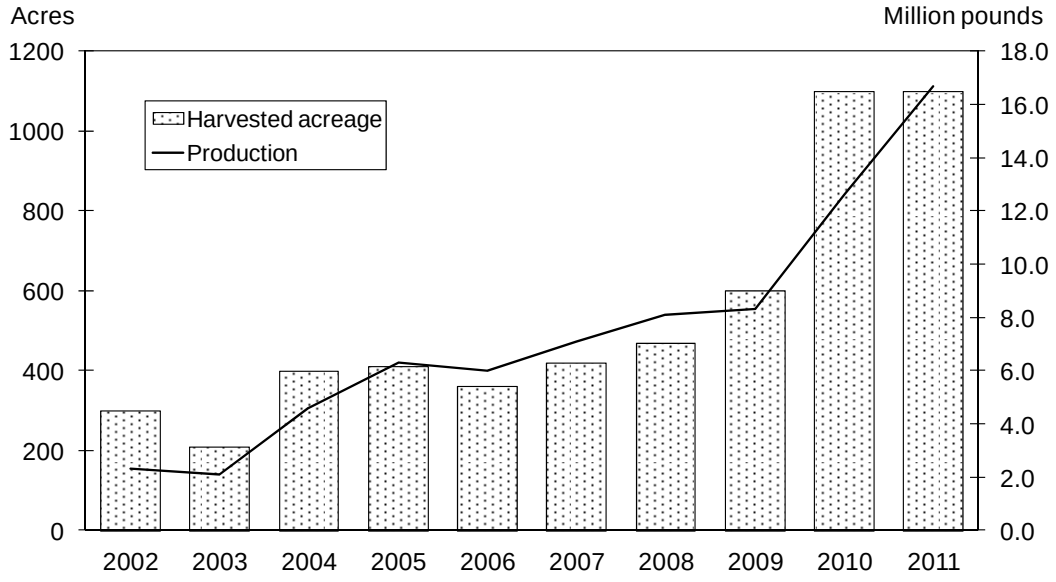
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres [1]													
2007	21	21	21	21	22	14	1	2	5	2	11	19	160
2008 [2]													
2009 [2]													
2010 [2]													
2011 [2]													
Production – *1,000 pounds*													
2007	200	248	239	252	257	188	5	30	39	15	124	203	1,800
2008 [2]													
2009 [2]													
2010 [2]													
2011 [2]													
Farm price – *cents per pound*													
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]													
2011 [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.

SWEET POTATOES: Acreage, Yield, Production, Price, and Value, by County, 2007-2011

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State					
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
2011	**1,100**	**15.2**	**16,700**	**44.0**	**7,348**

SWEET POTATO: Acreage and Production, State of Hawaii, 2002-2011



ROMAINE

ROMAINE: Acreage, Yield, Production, Price, and Value, by County, 2007-2011

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		Cents per pound	1,000 dollars
State [1]					
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
2011	**110**	**15.5**	**1,700**	**61.0**	**1,037**
County:					
Hawaii/Honolulu [2]					
2007	80	11.8	940	69.8	656
2008	70	11.4	800	61.0	488
2009 [3]					
2010 [3]					
2011 [3]					
Maui					
2007	20	13.0	260	57.0	148
2008	20	10.0	200	51.0	102
2009 [3]					
2010 [3]					
2011 [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, 2007-2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
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
2011 [1]													**110**
Production – *1,000 pounds*													
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
2011 [1]													**1,700**
Farm price – *cents per pound*													
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
2011 [1]													**61.0**

[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, 2007-2011

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds	----------	Cents per pound	1,000 dollars
State [1]					
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
2011	**170**	**7.6**	**1,300**	**78.0**	**1,014**
County:					
Hawaii/Honolulu/Kauai [2]					
2007	110	7.1	780	70.7	551
2008	120	9.4	1,130	60.0	678
2009 [3]					
2010 [3]					
2011 [3]					
Maui					
2007	70	6.0	420	60.0	252
2008	50	7.0	350	60.0	210
2009 [3]					
2010 [3]					
2011 [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, 2007-2011

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											
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
2011	**115**	**450**	**35**	**485**	**100**	**4,000**	**4,100**	**65.6**	**121.2**	**67.0**	**2,747**
County:											
Hawaii											
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]											
2011 [2]											
Honolulu/Maui [3]											
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]											
2011 [2]											
Kauai											
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]											
2011 [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, 2007-2011

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- *1,000 pounds* ----------		*Cents per pound*	*1,000 dollars*
2007	740	19.3	14,300	69.0	9,867
2008 [1]					
2009 [1]					
2010 [1]					
2011 [1]					

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

TOMATOES: Acreage, Production, and Price, State of Hawaii, 2007-2011

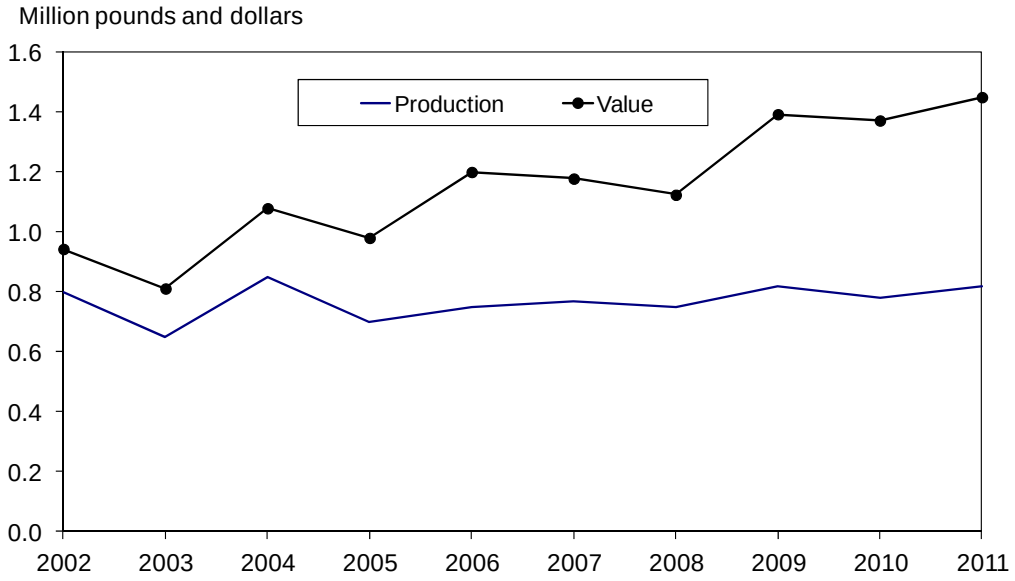
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres [1]													
2007	69	71	71	65	60	62	58	58	56	57	57	56	740
2008 [2]													
2009 [2]													
2010 [2]													
2011 [2]													
Production – *1,000 pounds*													
2007	967	946	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]													
2011 [2]													
Farm price – *cents per pound*													
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]													
2011 [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.

WATERCRESS: Acreage, Production, Price, and Value, State of Hawaii, 2007-2011

Year	Acreage in crop	Production	Farm price	Value of sales
	Acres	*1,000 pounds*	*Cents per pound*	*1,000 dollars*
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
2011	**35**	**820**	**177.0**	**1,451**

WATERCRESS: Production and Farm Value, State of Hawaii, 2002-2011



WATERMELONS: Acreage, Yield, Production, Price, and Value, State of Hawaii, 2007-2011

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- *1,000 pounds* ----------		*Cents per pound*	*1,000 dollars*
State					
2007	540	24.3	13,100	30.0	3,930
2008 [1]					
2009 [1]					
2010 [1]					
2011 [1]					

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

OTHER VEGETABLES: Acreage, Yield, Production, Price, and Value, State of Hawaii, 2007-2011

Crop and year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		---------- 1,000 pounds ----------		*Cents per pound*	*1,000 dollars*
Bittermelon					
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
2011	**20**	**6.0**	**120**	**99.0**	**119**
Broccoli					
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]					
2011 [1]					
Cabbage, mustard					
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
2011	**80**	**17.5**	**1,400**	**84.0**	**1,176**
Pumpkins					
2007	40	11.8	470	52.0	244
2008	30	3.0	90	66.0	59
2009 [1]					
2010 [1]					
2011 [1]					
Squash, Oriental (Hyotan and Togan)					
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
2011	**40**	**6.8**	**270**	**60.0**	**162**

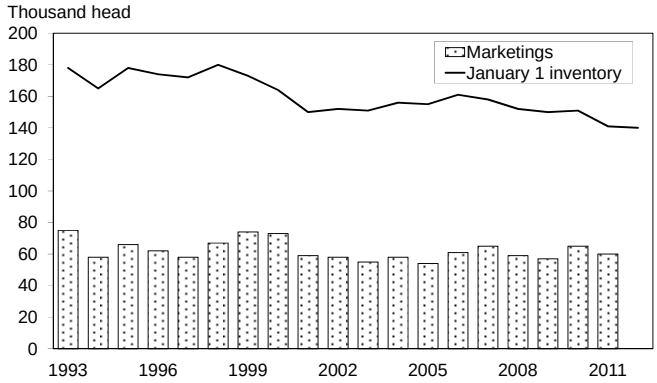
[1] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

- **Cattle and calves**

State's January 1 inventory down 1 percent

The inventory of cattle and calves on Hawaii ranches totaled 140,000 on January 1, 2012. This represents a 1 percent decrease from 2011. Ranchers continued to face difficulties associated with the lack of rainfall, poor pasture conditions, and high cost of feed and water.

CATTLE: Inventory and Marketings, State of Hawaii, 1993-2012 [1]



Local cattle slaughter down 5 percent

The number of cattle slaughtered during 2011 totaled 12,000 head. This is a decrease of 5 percent from the previous year. The total slaughtered dressed weight is estimated at 7.5 million pounds, a slight decrease from 2010.

Cattle marketings down 5 percent

Marketings during 2011 totaled 41.0 million pounds (live weight), down 5 percent compared to the previous year's total. This decline was attributed to 60,000 head sold in 2011 compared to 65,000 sold in 2010. Marketing breakouts for 2011 cattle and calves were not available for comparison.

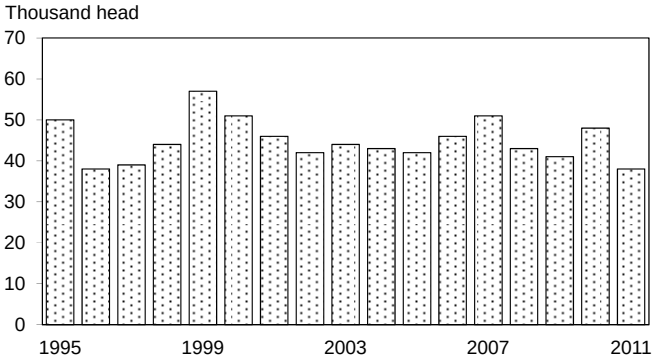
Value of sales up 50 percent

The value of all cattle and calves marketed in 2011 totaled $46.4 million, up 50 percent from 2010. This shift is attributed to program changes where the 2011 cattle farm price is published at regional levels only. This trend should be taken into consideration when making year-to-year comparisons since the estimated price and value measures a different scope and scale.

Exports of cattle and calves down 21 percent

Hawaii ranchers exported 38,000 head of cattle and calves in 2011, down 21 percent from 2010. This export level is the lowest since 1996. Calves (livestock weighing less than 500 pounds) accounted for the bulk of the exports at 37,500 head compared to 500 head (cattle weighing 500 pounds or more) that were exported from Hawaii.

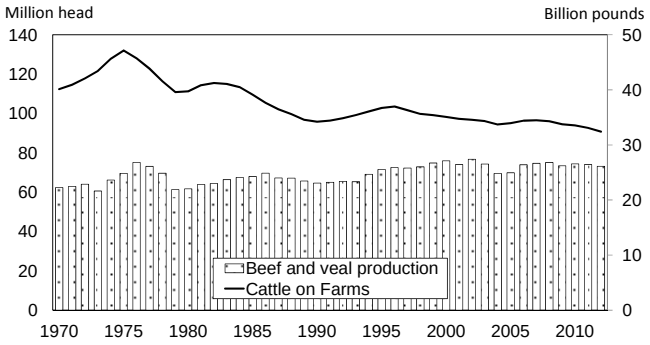
CATTLE AND CALVES: Exports, State of Hawaii, 1995-2011



U.S. cattle inventory down 2 percent

All cattle and calves in the United States as of January 1, 2012, totaled 90.8 million head, 2 percent below the 92.7 million on January 1, 2011. This is the lowest January 1 inventory of all cattle and calves since the 88.1 million on hand in 1952. The 2011 calf crop was estimated at 35.3 million head, down 1 percent from 2010. This is the smallest calf crop since the 34.9 million born during 1950. Calves born during the first half of 2011 are estimated at 25.7 million, down 1 percent from 2010.

CATTLE: Beef and Veal Production and Cattle on Farms, United States, 1970-2012



♦ **Milk**

Production up 8 percent

Hawaii's dairy cows produced 27.4 million pounds of milk in 2011, up 8 percent from 2010. This is the third increase when measured to the previous year. Prior to 2009, milk production levels fell each year going back to 1998.

The milk cow herd average for 2011 equaled the previous year. Cows produced an average of 14,421 pounds of milk in 2011, 8 percent more per cow compared to 2010.

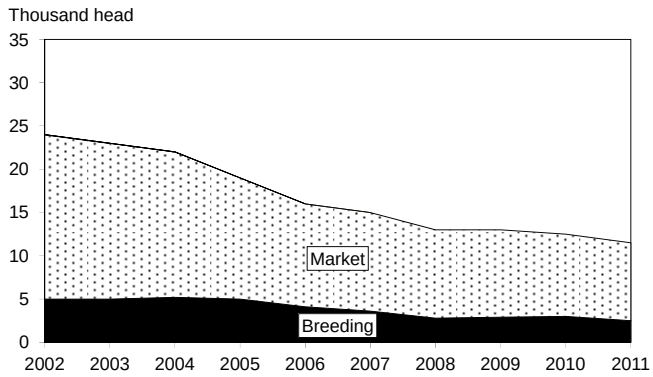
In 2011, milk producers received an average return of $35.10 per hundredweight for milk sold, up slightly from 2010. Revenues at the farm gate level rose 9 percent to a total of $9.5 million in 2011.

♦ **Hogs and Pigs**

Statewide inventory down 8 percent

The Hawaii inventory of total hogs and pigs on December 1, 2011 at 11,500 was down 1,000 or 8 percent from 2010. Inventory breakdowns show breeding hogs totaled 2,500, down 17 percent from the 2010 inventory. The 9,000 head of market hogs and pigs was down 5 percent from the previous year. Market hogs and pigs made up 78 percent of the State's total hog and pig inventory. Pigs less than 60 pounds made up the largest of the December inventory on hand, totaling 4,300 head, or 48 percent of the market hog and pig group. Pigs weighing 60 to 119 pounds are estimated at 2,300. Hogs weighing 120 to 179 pounds totaled 1,500 head. The remaining 900 market hogs were in the 180 pounds and over category.

HOGS AND PIGS: Inventory by Classes, State of Hawaii, 2002-2011



Hog marketings increased slightly

Hog marketings totaled 3.8 million pounds (live weight) in 2011, up slightly from 2010.

Value of hog sales down 28 percent

Total value of hog sales decreased 28 percent to $2.6 million in 2011. This shift is attributed to program changes where the 2011 hog farm price is published at regional levels only. This trend should be taken into consideration when making year-to-year comparisons since the estimated price and value measures a different scope and scale.

CATTLE AND CALVES: January 1 Inventory by Sex Classes and Weight, by County, 2008-2012

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]											
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
2012	**140**	**80**	**78.1**	**1.9**	**17**	**10**	**1**	**6**	**6**	**5**	**32**
County:											
Hawaii											
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]											
2012 [2]											
Honolulu											
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]											
2012 [2]											
Kauai											
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]											
2012 [2]											
Maui											
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]											
2012 [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, 2007-2011

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					
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	43,260	71.40	30,892
2011	**1,000**	**60**	**40,960**	**[5] 113.20**	**46,369**
County:					
Hawaii					
2007	730	50.7	25,893	76.00	19,676
2008	680	43.5	23,697	69.60	16,493
2009 [6]					
2010 [6]					
2011 [6]					
Honolulu					
2007	60	2.5	1,270	74.20	942
2008	50	.8	615	58.20	358
2009 [6]					
2010 [6]					
2011 [6]					
Kauai					
2007	130	3.1	1,954	67.50	1,318
2008	120	5.2	2,529	77.50	1,959
2009 [6]					
2010 [6]					
2011 [6]					
Maui					
2007	180	8.7	7,043	60.50	4,260
2008	150	9.5	9,079	60.50	5,495
2009 [6]					
2010 [6]					
2011 [6]					

[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] Beginning 2011, farm price published at regional level due to program change.
[6] 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, 2007-2011

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*
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
2011 [3]				

[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.
[3] Beginning 2011, data series discontinued.

CALVES: Number Sold, Pounds, Price, and Value, State of Hawaii, 2007-2011

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*
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	21,348
2011 [3]				

[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.
[3] Beginning 2011, data series discontinued.

CATTLE AND CALVES: Inventory and Disposition, State of Hawaii, 2007-2011

Year	Inventory beginning January 1	Calf crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory January 1 following year
				1,000 head			
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	1	9	141
2011	**141**	**65**	*****	**60**	**1**	**5**	**140**

* = Less than 500.

CATTLE AND CALVES: Exports by Weight and Sex, State of Hawaii, 2007-2011

Year	Total	By weight category		By sex class		
		Cattle [1]	Calves [2]	Steers	Heifers	Others
			1,000 head			
2007	51	3.0	48.0	26.0	23	2.0
2008	43	2.0	41.0	23.0	19	1.0
2009	41	3.0	38.0	23.0	18	*
2010	48	2.0	46.0	24.5	23	.5
2011	**38**	**.5**	**37.5**	**21.5**	**16**	**.5**

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

CATTLE: Commercial Slaughter and Farm Price, State of Hawaii, 2007-2011 [1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Number of head [2] – *1,000 head*													
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	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
2011	**1.0**	**1.1**	**1.1**	**1.0**	**1.0**	**1.1**	**1.0**	**1.0**	**1.0**	**1.0**	**0.8**	**0.9**	**12.0**
Pounds slaughtered, dressed weight [2 3] – *1,000 pounds*													
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	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
2011	**608**	**654**	**700**	**632**	**610**	**704**	**589**	**649**	**623**	**619**	**507**	**570**	**7,466**
Average farm price, dressed weight – *cents per pound*													
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
2011 [4]													

[1] Includes custom slaughter for home use.
[2] Sum of monthly estimates may not add to annual total due to rounding.
[3] To convert dressed weight to live weight, divide dressed weight by 0.549 or multiply by a factor of 1.8215.
[4] Data not available due to program change at National level.

CATTLE: Local Marketings and Farm Price, State of Hawaii, 1999-2011 [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* ----------	
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	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
2011 [3]						

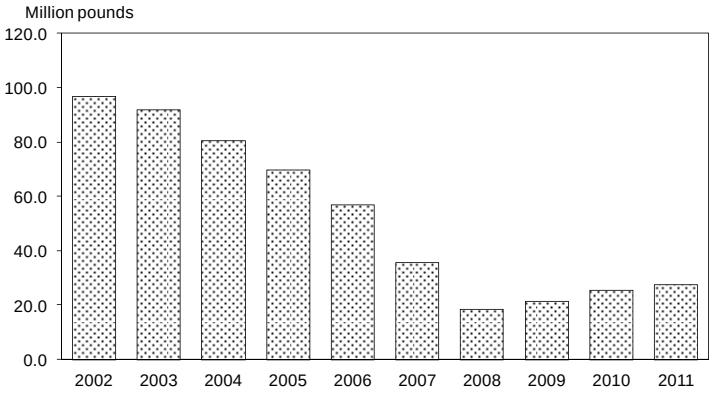
[1] Excludes out-of-State shipments.
[2] Live weight average price is derived by dividing the unrounded average dressed weight price by 1.8215 or multiplying by 0.549.
[3] Data not available due to program change at National level.

MILK: Number of Operations, Number of Milk Cows, Production, Sales, Price, and Value, by County, 2007-2011

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								
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
2011	**15**	**2**	**1,900**	**14,421**	**27.4**	**27.2**	**35.10**	**9,547**
County:								
Hawaii/Kauai/Maui [5]								
2007	12	2	6	6	6	6	6	6
2008	12	2	6	6	6	6	6	6
2009 [6]								
2010 [6]								
2011 [6]								
Honolulu								
2007	3	3	6	6	6	6	6	6
2008	3	0	6	6	6	6	6	6
2009 [6]								
2010 [6]								
2011 [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, 2002-2011



MILK: Annual milk per cow, State of Hawaii, 2002-2011

MILK: Number of Cows, Milk Production, Price, and Milkfat, State of Hawaii, 2007-2011

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*													
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
2011	**1.9**	**1.9**	**1.9**	**1.8**	**1.8**	**1.9**	**1.9**	**1.9**	**1.9**	**1.9**	**2.0**	**2.0**	**1.9**
Average monthly production per all cows in herd – *pounds*													
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
2011	**1,200**	**1,140**	**1,290**	**1,300**	**1,330**	**1,330**	**1,270**	**1,260**	**1,065**	**1,085**	**1,065**	**1,115**	**14,421**
Milk production – *million pounds*													
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	1.8	1.4	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
2011	**2.3**	**2.2**	**2.4**	**2.4**	**2.5**	**2.4**	**2.3**	**2.4**	**2.1**	**2.1**	**2.1**	**2.2**	**27.4**
Average price for milk sold to plants – *dollars per hundredweight*													
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
2011	**34.50**	**34.40**	**34.80**	**35.30**	**35.20**	**35.30**	**35.50**	**35.20**	**35.30**	**35.20**	**35.00**	**35.00**	**35.10**
Average milkfat for milk sold to plants – *percent*													
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
2011	**3.59**	**3.52**	**3.52**	**3.44**	**3.54**	**3.59**	**3.63**	**3.71**	**3.72**	**3.67**	**3.69**	**3.65**	**3.60**

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

HOGS AND PIGS: December 1 Inventory by Classes and Weight, State of Hawaii, 2007-2011

Year	All hogs and pigs	Breeding	Market				
			Total	Under 60lbs.	60-119 lbs.	120-179 lbs.	180 lbs. and over
			1,000 head				
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
2011 [1]	**11.5**	**2.5**	**9.0**	**4.3**	**2.3**	**1.5**	**.9**

[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, 2007-2011

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**			
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]			
2011 [1]				**2011 [1]**			
Honolulu				**Maui**			
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]			
2011 [1]				**2011 [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, 2007-2011

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]					
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
2011	**230**	**15.5**	**3,798**	**[4] 69.10**	**2,624**
County:					
Hawaii					
2007	70	1.1	216	85.50	185
2008	70	1.0	203	84.00	171
2009 [5]					
2010 [5]					
2011 [5]					
Honolulu					
2007	70	11.1	2,157	91.50	1,974
2008	70	9.9	1,968	94.50	1,860
2009 [5]					
2010 [5]					
2011 [5]					
Kauai					
2007	30	3.4	575	111.00	638
2008	30	3.3	496	116.50	578
2009 [5]					
2010 [5]					
2011 [5]					
Maui					
2007	60	4.4	932	95.00	885
2008	60	3.8	789	95.00	750
2009 [5]					
2010 [5]					
2011 [5]					

[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] Beginning 2011, farm price published at regional level due to program change.
[5] 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, 2007-2011

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Number of head [1 2] – *1,000 head*													
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
2011	**1.2**	**1.2**	**1.3**	**1.2**	**1.3**	**1.3**	**1.3**	**1.4**	**1.4**	**1.1**	**1.1**	**1.5**	**15.3**
Pounds slaughtered, dressed weight [1 2 3] – *1,000 pounds*													
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	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
2011	**226**	**220**	**242**	**228**	**236**	**248**	**249**	**245**	**243**	**207**	**207**	**258**	**2,809**
All hogs, average farm price, dressed weight [4] – *cents per pound*													
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	134.0	129.5	130.0	132.0	129.0	130.0	130.5	131.0	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	148.3	137.5
2011 [5]													
Market hogs, average farm price, dressed weight [4] – *cents per pound*													
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	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	149.5	140.0
2011 [5]													

[1] Excludes non-inspected farm slaughter; includes custom slaughter and live hog inshipments from the mainland for slaughter.
[2] Sum of monthly estimates may not add to annual total due to rounding.
[3] To convert dressed weight to live weight, divide dressed weight by 0.75 or multiply by a factor of 1.3333.
[4] Annual average price is for the 12-month period, December of the previous year through November of the following year.
[5] Data not available due to program change at National level.

HOGS AND PIGS: Inventory and Disposition, State of Hawaii, 2007-2011

Year	Inventory December 1 previous year	Pig crop	Inshipments [1]	Marketings [1]	Farm slaughter	Deaths	Inventory December 1
			1,000 head				
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
2011	**12.5**	**18.5**	*****	**15.5**	**2.0**	**2.0**	**11.5**

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

Chicken inventory, egg production, number of layers, and egg price cannot be published to protect the individual confidentiality of egg producers.

CHICKENS: December 1 Inventory by Class, by County, 2007-2011

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							
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	*
2011 [1]							

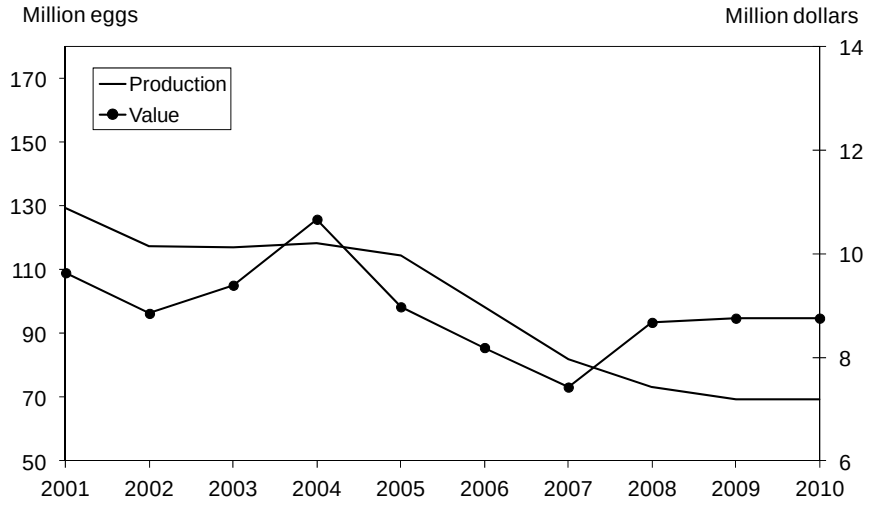
* = Less than 500.
[1] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

EGGS: December 1 Number of Operations, Number of Layers, Production, Price, and Value, by County, 2007-2011 [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]							
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
2011 [5]							
County:							
Hawaii/Kauai/Maui [6]							
2007	65	1	[7]	[7]	[7]	[7]	[7]
2008	85	1	[7]	[7]	[7]	[7]	[7]
2009 [8]							
2010 [8]							
2011 [8]							
Honolulu							
2007	15	4	[7]	[7]	[7]	[7]	[7]
2008	15	4	[7]	[7]	[7]	[7]	[7]
2009 [8]							
2010 [8]							
2011 [8]							

[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] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total. [6] Kauai and Maui combined with Hawaii to avoid disclosure of individual operations. [7] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total. [8] 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

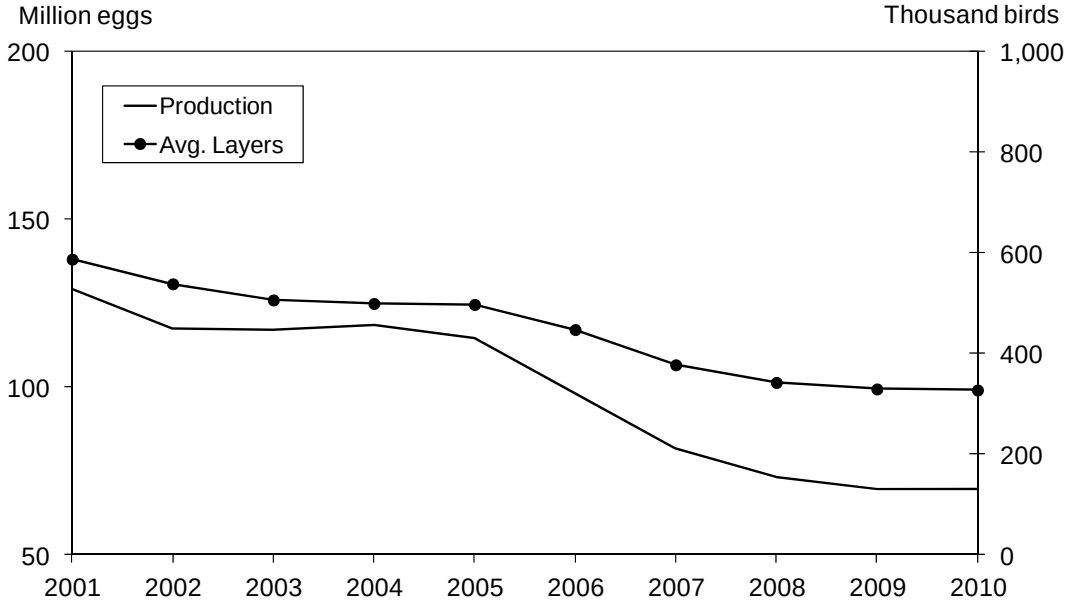


EGGS: Number of Layers, Production, and Price, State of Hawaii, 2007-2011

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*													
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
2011 [2]													
Egg production [3] – *million eggs*													
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
2011 [2]													
Average farm price [4] – *cents per dozen*													
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	[5]	151.0
2010	[5]	[5]	[5]	[5]	[5]	[5]	[5]	[5]	[5]	[5]	[5]		151.0
2011 [2]													

[1] Annual data are for the 12-month period, December of the previous year through November of the following year.
[2] Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.
[3] Sum of monthly estimates may not add to annual total due to rounding.
[4] Equivalent delivered processing plant.
[5] 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, 2007-2011

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 -----*	
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	275	320	2,118	35
2011	**35**	**9**	**74**	**666**	**5**	**471**	**350**	**3,137**	**18**

[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, 2007-2011

Year	Operations	Production		Value					
		Shellfish	Finfish	Shellfish	Finfish	Algae	Ornamental	Other [1]	Total
	Number	*------ 1,000 pounds ------*		*---------- 1,000 dollars ----------*					
State									
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
2011	**70**	**55**	**315**	**413**	**1,493**	**25,230**	**2,514**	**10,320**	**39,970**
County:									
Hawaii									
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]									
2011 [3]									
Honolulu/Kauai/Maui [4]									
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]									
2011 [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, 2007-2011 [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
2007	[2]	[2]	[2]	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
2011	[7]	[7]	[7]	[6] **7,100**	[5] 850	[5]	[6] **6,250**
Survey week:							
January 9-15	12,300	4,500	900	6,900	[5] 850	[5]	6,050
April 10-16 [8]							
July 10-16	12,200	4,100	1,100	7,000	[5] 850	[5]	6,150
October 9-15	[7]	[7]	[7]	7,300	[5] 830	[5]	6,470

[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.
[6] Annual averages are based on survey data for January, July, and October.
[7] Beginning October 2011, data series discontinued.
[8] The April 2011 Farm Labor survey was not conducted.

FARM LABOR: Annual Average Number of Hired Workers on Farms, by County, 2007-2011 [1]

Year	County				Total [2]
	Hawaii	Honolulu	Kauai	Maui	
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
2011	[4]	[4]	[4]	[4]	[5] **7,100**

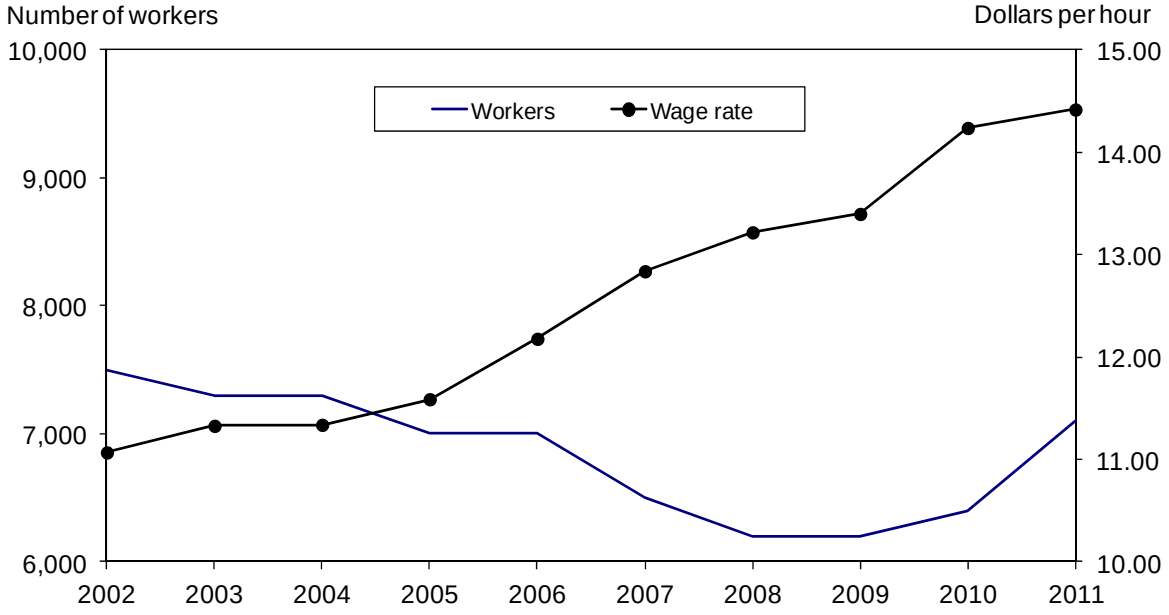
[1] Annual averages are based on data collected from the January, April, July, and October surveys.
[2] Sum of county estimates may not add to total due to rounding.
[3] The 2007 annual average number of hired workers by county is based on modeled data for January and survey data for April, July, and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

FARM LABOR: Wage Rates by Type of Farm and Worker, Annual and Quarterly Survey Week Averages, State of Hawaii, 2007-2011 [1]

Year	All farms		Farms with 1-9 workers	
	Field and livestock	All hired workers	Field and livestock	All hired workers
	Dollars per hour			
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
2011	**12.30**	**14.42**	**12.04**	**13.68**
Survey week:				
January 9-15	11.48	13.51	11.13	12.42
April 10-16 [3]				
July 10-16	12.76	14.91	12.14	14.42
October 9-15	12.65	14.83	12.85	14.20

[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.
[3] The April 2011 Farm Labor survey was not conducted.

Hired Workforce and Average Wage Rate, State of Hawaii, 2002-2011



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 2011 Statistics of Agriculture publication for 2011 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, 2007-2011

Commodity group	2007	2008	2009	2010	2011
			Thousand dollars		
Cattle [1]	19,510	15,394	15,208	16,267	[2]
Ornamentals [3]	53,174	42,906	31,378	27,845	**26,815**
Molasses [4]	5,400	5,300	7,800	5,400	**8,400**
Raw sugar [5]	70,900	66,100	65,800	104,200	**116,800**
Seed	140,710	176,990	236,410	239,375	**242,970**
Other [6]	122,494	136,706	[7]	[7]	[7]
Total Mainland U.S.	412,188	443,396	[7]	[7]	[7]

[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] Data not available due to program change at National level.
[3] Includes floriculture and nursery products.
[4] 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.
[5] 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.
[6] Commodities not published separately to avoid disclosing administratively confidential information.
[7] 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 $498.6 million during the 2011 federal fiscal year (October 1, 2010 to September 30, 2011), up 15 percent from the previous year.

Hawaii Agricultural Exports Outside the United States: Estimated Value, by Commodity Group, 2007-2011 [1]

Commodity group	2007	2008	2009	2010	2011
			Thousand dollars		
Fruits	12,400	12,300	13,200	12,500	**12,600**
Livestock [2]	4,100	4,200	4,600	5,800	**7,800**
Tree nuts	18,100	30,500	26,800	23,200	**30,200**
Vegetables	25,300	29,600	18,100	22,000	**23,100**
Other [3]	185,200	233,100	305,300	370,300	**424,900**
Total Foreign Countries	245,100	309,700	368,000	433,800	**498,600**

[1] Federal fiscal year begins October 1 of the previous year. Totals may not add due to rounding.
[2] Includes live animals and animal products.
[3] 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.

How can I get national publications from NASS & ERS?

→ For free e-mail subscriptions, visit usda.mannlib.cornell.edu/MannUsda/register.do
or visit www.nass.usda.gov/Publications/index.asp. The NASS and ERS catalogs list all products and services available from each agency. The NASS catalog includes a calendar of publication dates for agricultural statistics reports throughout the year.

How can I get state publications from NASS field offices?

→ For free e-mail subscriptions, visit www.nass.usda.gov/Publications/index.asp or view them online at www.nass.usda.gov/Statistics_by_State/index.asp
→ For paper subscriptions, contact us at (808) 973-9588. For other states, call 1-800-727-9540.

Sources of Agricultural Information in USDA

USDA – NASS Room 5038 South Building 1400 Independence Ave., SW Washington, D.C. 20250-2001	1-800-727-9540 FAX: 202-690-2090	Washington, D.C. E-mail: nass@nass.usda.gov Hawaii E-mail: nass-hi@nass.usda.gov Other Field Offices E-mail: nass-xx@nass.usda.gov (xx is the state abbreviation) Internet: www.nass.usda.gov	
USDA – ERS 1400 Independence Ave., SW Mail Stop 1800 Washington, D.C. 20250-0002		202-694-5100 FAX: 202-245-4781	E-mail: InfoCenter@ers.usda.gov Internet: www.ers.usda.gov
USDA – WAOB Room 4426 South Building 1400 Independence Ave., SW, Stop 3812 Washington, D.C. 20250-3812		202-720-5447 FAX: 202-690-3160	E-mail: bchapin@oce.usda.gov Internet: www.usda.gov/oce/commodity
Small Farm Program: USDA – National Institute of Food & Agriculture 1400 Independence Ave., SW, Stop 2201 Washington, D.C. 20250-2201		202-720-4423 FAX: 202-690-0289	Internet: www.nifa.usda.gov/familysmallfarms.cfm
Farmer Direct Marketing Initiative: USDA – AMS – Transportation & Marketing Marketing Services Division Room 4529 South Building 1400 Independence Ave., SW, Stop 0269 Washington, D.C. 20250-0269		202-720-8317 FAX: 202-690-0031	E-mail: Errol.Bragg@usda.gov Internet: www.ams.usda.gov/farmersmarkets
National Specialists are available to answer your questions by phone or E-mail. See these internet sites for telephone numbers and E-mail addresses: **Statistics from USDA, NASS** Internet: www.nass.usda.gov **Economists in USDA, ERS** Internet: www.ers.usda.gov			

Title and Description	Release Date
CROPS	
AVOCADOS: Annual summary of acreage, yield, production, farm price, and value	July
BANANAS: Annual summary of acreage, yield, production, farm price, and value	May
COFFEE:	
- Preliminary season estimates of acreage, yield, production, farm price, and value	February
- Final season estimates of acreage, yield, production, farm price, and value	August
GUAVAS: Annual summary of acreage, production, farm price, and value	June
HERBS: Annual summary of production, farm price, and value	December
MACADAMIA NUTS:	
- Preliminary season estimates of acreage, yield, production, farm price, and value	February
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