

STATISTICS OF HAWAII AGRICULTURE 2008

January 2010

A Partnership Between the



Hawaii
Department of Agriculture
Agricultural Development Division

United States
Department of Agriculture
National Agricultural Statistics Service



USDA, NASS, HAWAII FIELD OFFICE

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

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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 appreciate the cooperation they extend when we contact them for information. Also, we are aware and sensitive to the frequent contacts made to Hawaii producers. Many options are available for producers to respond including responding 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. We truly appreciate and thank all the agricultural producers and organizations who have so willingly and faithfully provided survey information. 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.

Results of the 2008 Farm and Ranch Irrigation Survey and a first ever Organic Production Survey were recently released. These studies provided additional detailed breakouts based on Census of Agriculture information. In May of 2010, a first ever On-Farm Renewable Energy Production study will be conducted. This study will measure the energy generated by solar, wind, and other renewable energy production sources. Results will be available in February 2011.

Our website, http://www.nass.usda.gov/Statistics_by_State/Hawaii/index.asp, contains all the data published by our office including the 2007 Census of Agriculture results and other Census of Agriculture follow-on surveys previously mentioned. This site contains this publication in electronic format along with other numerous commodity releases issued throughout the year. Due to budget constraints and increasing printing costs, this information will only be written to compact discs, but all information will be on our website.

Thank you,

Mark E. Hudson
Director, USDA NASS Hawaii Field Office





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2008 Farm Revenues up 5 Percent from Previous Year

Farm revenues for 2008 totaled \$609.4 million compared to the revised 2007 level of \$578.0 million. Compared to the previous year, 9 of the 20 ranked commodities were higher including seed crops, macadamia nuts, algae, papayas, eggs, basil, sweet potatoes, sod, and ginger root.

The value of individually published diversified commodities rose 8 percent including a 26 percent increase for seed. The \$176.6 million seed revenue is a new record as demand for seed for ethanol production continues to be strong. Information for some agricultural commodities is suppressed to prevent disclosing individual operation information, but is included in the total revenue number. Separately published vegetable commodity levels were up 7 percent compared to 2007 levels. Aquaculture and macadamia nuts jumped 38 and 36 percent, respectively. Revenue from eggs increased 17 percent compared to the previous year.

Revenue declines include flowers and nursery products which fell 9 percent from the record high level of \$108.7 million set in 2007. Growers commented on slower business in 2008 due to the sluggish economy, crop losses to volcanic emissions, adverse weather

conditions and the high cost of production. Coffee revenues, at the parchment equivalent level, fell 7 percent due to lower 2008 prices. Cattle and calf revenues declined by 7 percent due to fewer calves sold compared to 2007 levels. Milk revenues fell by 44 percent compared to last year as milk cow inventories continued to drop. Hog revenues dropped by 9 percent. This decline is attributed to fewer hogs and pigs being sold compared to previous year.

The equivalent farm value of sugarcane (this does not include the processed value of raw sugar) was set at \$44.2 million, down 7 percent from 2007. The unprocessed sugarcane value has dropped the past 5 years.

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 EI 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.



State Declared a Primary Disaster Area Due to Drought Conditions

January - March

Following a wet December 2007, the first month of 2008 started with drier conditions over most of the State. However, on January 18, strong thunderstorms over the Hana area of east Maui county prompted a flash flood warning, but no significant crop or livestock damages were reported. Heavy showers fell again over the windward slopes of Hawaii and Maui counties on January 29 and 30, producing minor flooding problems. These showers helped saturate the ground and set the stage for much more significant flooding in the Hilo area of the county of Hawaii. For the east Hawaii county residents, the early February deluge was the most significant flood event since the intense November 1-2, 2000 severe flood event. On February 6, Honolulu county received its turn when thunderstorms generated heavy rains over the central Koolau Range during the evening hours. An overall dry, stable weather pattern that started on February 9 continued through March 11, with a low-level ridge of high pressure near the island chain keeping winds light and rainfall sparse. The remainder of March, normally one of the wettest months of the year for windward locations, was relatively tranquil, with daily rain gage totals of mostly less than an inch across the State.

April - June

Despite brief interludes of heavy rainfall, the second quarter of 2008 was marked by dry conditions and drought across the entire State. Most of the State had been extremely dry for the entire first half of 2008. The lack of sufficient rainfall aggravated drought conditions across Hawaii, Maui, and Honolulu counties, with impacts mainly felt by the

agriculture sector. In June, some beneficial rains brought temporary relief to drought conditions over the east Honolulu county where users of Waimanalo irrigation water had been suffering under mandatory 20 percent restrictions on water use. On Hawaii county, below normal summer rainfall placed the county under moderate drought. Degraded pasture conditions severely affected livestock, and brush fire danger was very high. Drought conditions across Maui county ranged from moderate to severe, and sugar planting in central Maui was suspended due to lack of water. In west Molokai, users of irrigation water from the Kualapu'u Reservoir remained under a mandatory 20 percent reduction on water use. Irrigation water levels continued to drop in the Waimanalo Reservoir, where officials placed a 30 percent mandatory restriction on irrigation water use.

July - September

Drought conditions continued to affect the entire State of Hawaii, as every county had at least one location with some level of voluntary or mandatory water use conservation measure in place. Despite the return of trade wind showers, water use conservation notices and restrictions remained in place across the State. Tropical activity did bring a brief boost to windward rainfall. Water use conservation notices and restrictions continued to remain in place throughout the quarter. This included a mandatory 30 percent reduction in irrigation water use for the Waimanalo Reservoir system and a mandatory 20 percent reduction for the Kualapu'u Reservoir system in west Molokai. Effects of the drought adversely affected the agriculture sector, especially in the cattle industry

where some ranchers reported stocking rates reduced by at least 50 percent, very poor pasture conditions, and even livestock deaths. The ongoing drought prompted the U.S. Department of Agriculture to declare the State of Hawaii a primary disaster area on August 1, 2008 for agriculture interest.

October - December

Despite several moderate rain events throughout the month of October, more than 75 percent of the State was under moderate drought or worse conditions. In mid-November, the north Pacific weather pattern shifted to more winter-like conditions. On the county of Maui, heavy rainfall caused minor flooding along the slopes of the West Maui Mountains and windward Haleakala. On November 21, a Kona low, or subtropical cyclone, developed northwest of the State and produced about 1 to 4 inches of widespread rainfall over Kauai, Oahu, and Molokai. Fortunately, most of the rainfall occurred at light to moderate intensities over prolonged periods, which was able to soak into the ground and help bring meaningful drought relief. Despite the wet conditions in the west half of the State, the Hawaii county remained drier than normal overall through November and the area under severe drought spread eastward. An intense area of rain moved into central and northeast Honolulu county with peak rain rates in excess of 4 inches per hour. According to the U.S. Geological Survey, several streams in central and windward Honolulu county set new peak flow records during the storm. Flooding produced severe damage to farm lands, homes, and infrastructure.



WEATHER: Precipitation, Selected Stations, State of Hawaii, 2008

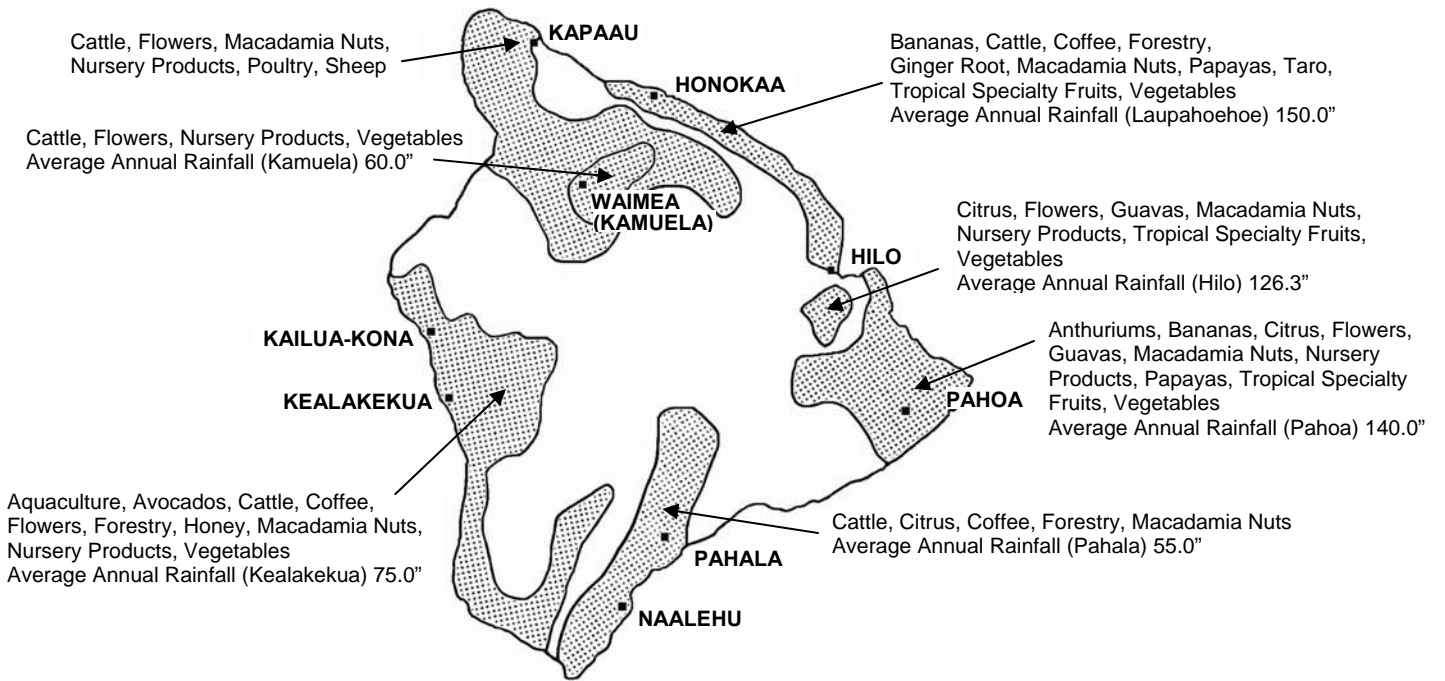
STATIONS	Year & normal	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual	% Annual normal
HAWAII COUNTY															
Hilo International Airport	Normal	9.7	8.9	14.4	12.5	8.1	7.4	10.7	9.8	9.1	9.6	15.6	10.5	126.3	
	2008	14.20	39.08	5.21	5.91	4.12	2.18	6.17	3.72	4.27	5.40	6.73	30.38	127.37	100.8
Kamuela (HI86)	Normal	6.6	6.0	7.9	6.9	4.0	2.2	3.7	4.1	2.2	3.3	5.8	7.3	60.0	
	2008	4.10	3.28	.47	1.56	1.23	1.19	1.55	1.30	.75	.90	2.72	3.39	22.44	37.4
Kealahou (HI84)	Normal	4.7	3.4	5.6	6.2	7.7	8.2	8.7	8.3	8.2	6.2	4.4	3.4	75.0	
	2008	1.78	3.10	1.89	1.57	7.27	3.05	7.94	2.39	4.15	1.42	1.76	4.09	40.41	53.9
Laupahoehoe (HI80)	Normal	13.5	13.2	19.5	18.9	11.7	6.2	10.0	12.4	6.9	9.3	13.6	14.8	150.0	
	2008	11.09	25.37	3.66	2.42	4.52	2.05	7.83	4.58	2.10	1.88	3.04	24.98	93.52	62.3
Pahala (HI85)	Normal	7.7	6.1	6.3	5.0	3.8	2.2	2.1	3.3	3.4	4.2	5.5	5.4	55.0	
	2008	.01	17.43	.38	3.53	.72	1.60	3.12	1.58	.67	1.02	1.09	11.19	42.34	77.0
Pahoa (HI83)	Normal	13.9	10.9	14.7	13.9	10.5	7.1	9.8	10.6	9.2	11.5	13.3	14.6	140.0	
	2008	12.39	30.00	6.80	8.06	5.47	4.02	6.32	5.56	5.04	6.14	7.74	23.10	120.64	86.2
HONOLULU COUNTY															
Kahuku (HI09)	Normal	6.3	4.2	5.3	4.0	2.5	1.8	2.2	2.6	2.2	4.0	4.6	5.3	45.0	
	2008	.95	3.14	.41	.49	.81	.61	1.13	2.16	.88	3.53	3.10	11.95	29.16	64.8
Waianae (HI17)	Normal	3.8	2.3	2.5	1.6	.7	.3	.3	.7	.7	1.8	2.0	3.3	20.0	
	2008	.09	1.71	.87	.26	2.59	.24	.47	.41	.70	0	--	13.64		
Waimanalo (HI13)	Normal	6.8	4.6	3.6	3.2	3.2	1.5	1.6	1.5	2.0	3.7	5.6	5.5	42.8	
	2008	1.27	.61	.18	2.56	1.17	2.00	2.13	.90	2.05	2.22	4.13	11.09	30.31	70.8
KAUAI COUNTY															
Hanalei (HI45)	Normal	11.8	9.4	13.4	12.2	9.3	6.5	9.8	8.7	6.9	8.5	10.2	12.0	118.7	
	2008	4.88	13.71	2.86	4.94	1.17	4.14	6.76	5.76	2.86	10.31	7.16	15.17	79.72	67.2
Omao (HI51)	Normal	6.9	4.5	5.5	5.2	4.2	3.4	4.7	4.6	3.7	4.7	5.9	6.7	60.0	
	2008	3.74	5.48	1.95	2.37	2.53	3.56	4.22	4.47	--	--	7.14	20.60	--	
Wailua	Normal	7.5	6.5	8.1	7.5	6.2	4.3	6.1	6.3	5.3	7.0	7.4	7.8	80.0	
	2008	5.89	5.32	3.44	2.76	3.50	7.21	5.40	5.04	5.99	9.43	10.93	19.83	84.74	105.9
MAUI COUNTY															
Hana (HI61)	Normal	8.5	5.7	9.1	7.5	5.9	4.1	5.9	5.8	6.1	7.3	8.0	6.1	80.0	
	2008	7.29	7.28	1.65	3.68	1.85	3.13	4.23	5.83	3.54	3.25	3.70	12.46	57.89	72.4
Kula (HI65)	Normal	3.5	3.0	2.5	1.6	1.1	.8	.8	.8	1.1	1.5	2.3	3.3	22.3	
	2008	.61	.99	.12	2.57	.17	.29	.38	.24	.69	1.17	2.83	4.56	14.62	65.6
Lahainaluna	Normal	4.4	2.7	2.4	1.7	.7	.2	.3	.6	.6	1.0	2.0	3.4	20.0	
	2008	.09	.78	.78	.07	.27	.05	.30	.10	.37	.11	.33	3.15	6.40	32.0
Molokai Airport	Normal	4.3	3.2	3.7	2.2	1.0	.5	.7	.7	.7	1.9	2.8	4.0	25.7	
	2008	.98	.97	.03	1.65	.42	.75	1.45	.16	1.99	.87	3.97	5.80	19.04	74.1

-- = No record. Data not recorded.

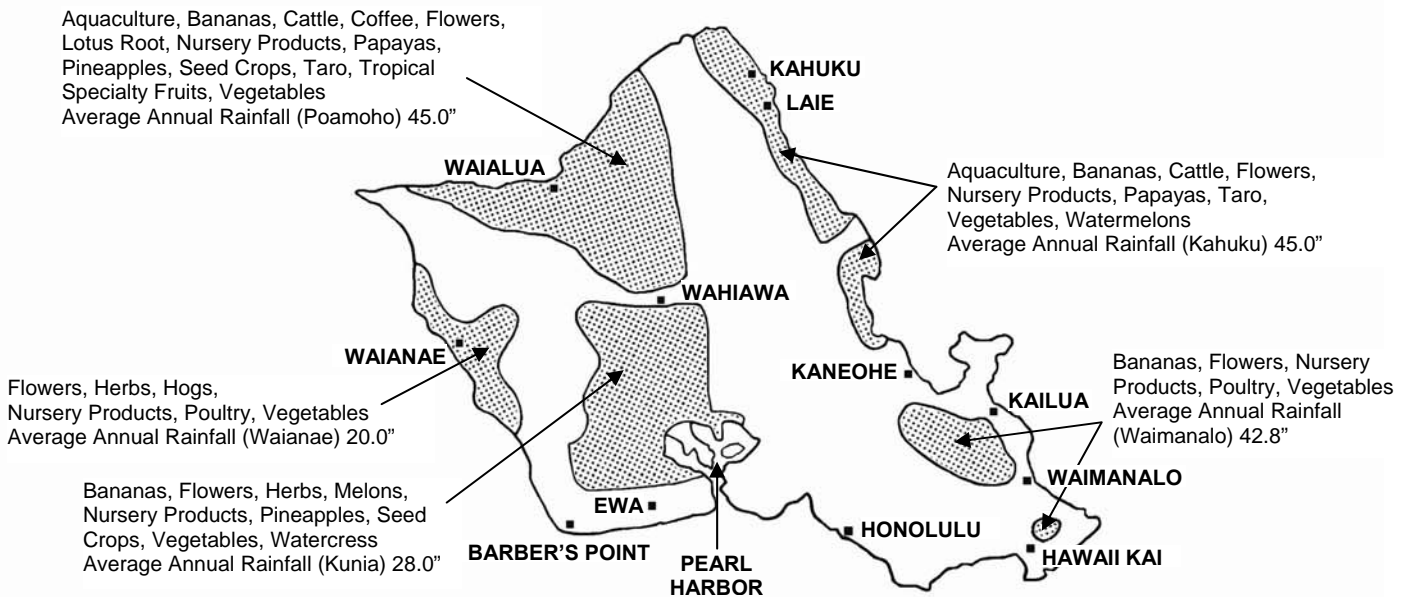
Source: U. S. Department of Commerce, National Oceanic and Atmospheric Administration. Most rainfall stations were selected from the National Weather Service's hydronet system of automated gauges, and those data have not been quality controlled to date, and therefore are not certified by the National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

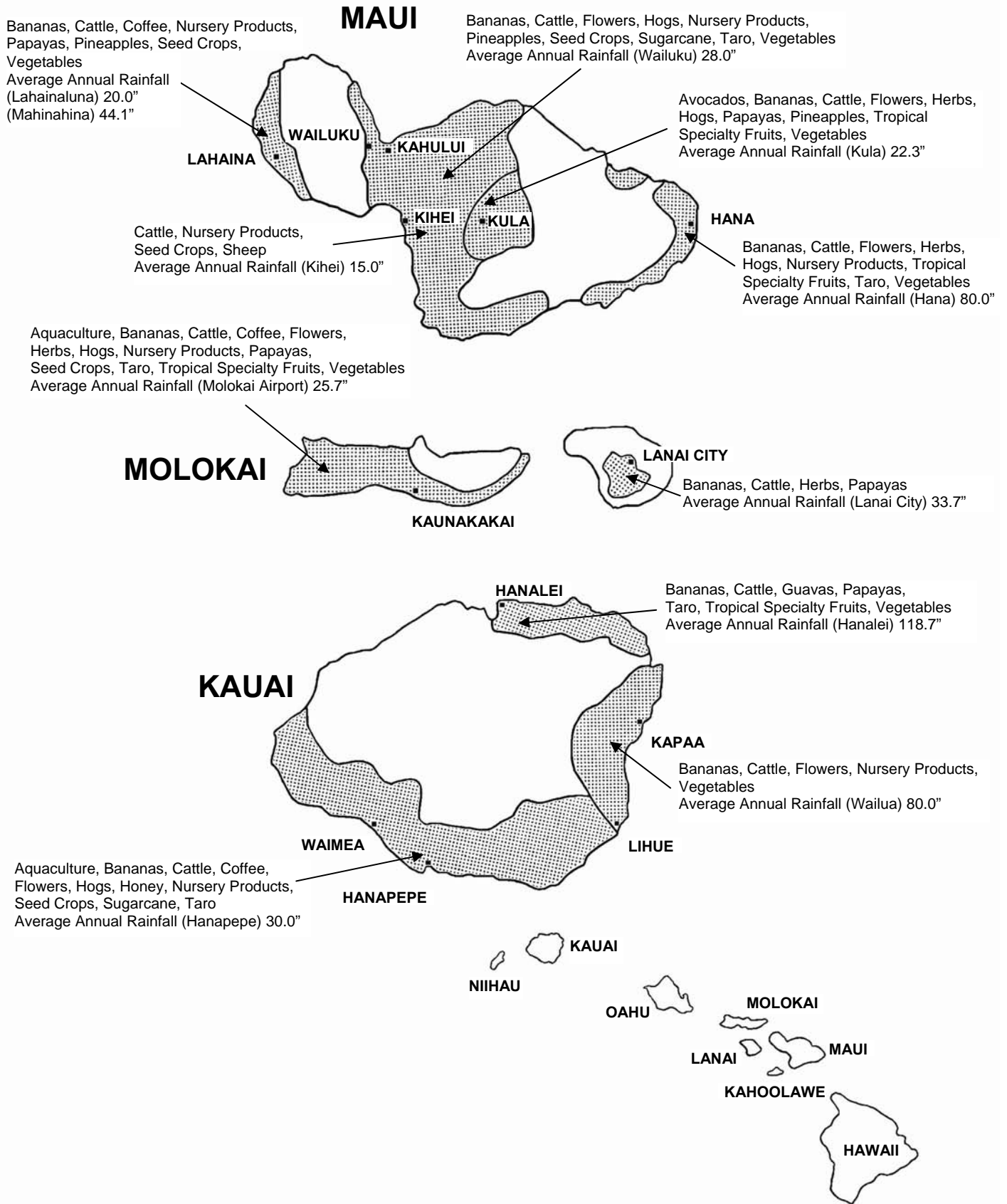
MAJOR AGRICULTURAL AREAS, STATE OF HAWAII, 2008

HAWAII



OAHU







SUMMARIES

Top 20 commodities, State of Hawaii, 2007-2008 ¹

Commodity ²	Rank		Value of production	
	2007	2008	2007	2008
	--- Number ---		--- 1,000 dollars ---	
Seed crops	1	1	140,710	176,600
Sugarcane (unprocessed)	2	2	47,600	44,200
Macadamia nuts	5	3	24,600	33,500
Coffee	3	4	31,875	29,580
Cattle	4	5	26,196	24,305
Algae	7	6	10,941	15,740
Papayas	6	7	13,094	14,393
Eggs	12	8	7,428	8,678
Bananas	8	9	10,496	8,004
Basil	16	10	5,465	6,755
Palms, potted	11	11	8,698	6,664
Milk	10	12	9,673	5,460
Potatoes, sweet	21	13	3,621	4,780
Sod	17	14	4,515	4,627
Dendrobiums, potted	14	15	5,092	4,077
Dracaena, potted	13	16	6,010	3,930
Anthuriums, cut	15	17	4,530	3,736
Hogs	20	18	3,682	3,359
Oncidiinae, potted	19	19	3,673	3,084
Ginger root	24	20	2,380	2,880

Farm values, State of Hawaii, 1989-2008

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Diversified agriculture ¹	Total ²
1989	210,300	98,310	276,438	585,048
1990	213,800	106,365	275,789	595,954
1991	174,900	107,775	268,707	551,382
1992	153,700	102,100	264,427	520,227
1993	163,000	79,850	271,094	513,944
1994	160,100	78,890	273,826	512,816
1995	127,700	87,360	291,632	506,692
1996	108,100	95,914	307,329	511,343
1997	85,500	91,721	327,484	504,705
1998	87,300	92,776	329,886	509,962
1999	86,800	101,448	342,846	531,094
2000	62,200	101,530	358,170	521,900
2001	57,800	96,337	370,241	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	609,404

¹ Pineapples, watermelons, and tomatoes not ranked due to disclosure of individual operations.

² Floriculture categories include only growers with total sales of \$10,000 or more.

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, 2007-2008

Commodity	Rank		Value of production			Percent of diversified agriculture ¹	
	2007	2008	2007	2008	Year-to-year percent change	2007	2008
	--- Number ---		----- 1,000 dollars -----		----- Percent -----		
Seed crops	1	1	140,710	176,600	+26	31.8	36.8
Flowers and nursery products	2	2	108,710	98,607	-9	24.5	20.5
Vegetables and melons ²	3	3	34,395	36,632	+7	7.7	7.6
Aquaculture	7	4	25,110	34,650	+38	5.7	7.2
Macadamia nuts	8	5	24,600	33,500	+36	5.6	7.0
Coffee	4	6	31,875	29,580	-7	7.2	6.2
Fruits (excluding pineapples)	5	7	30,592	29,158	-5	6.9	6.1
Cattle	6	8	26,196	24,305	-7	5.9	5.0
Eggs	10	9	7,428	8,678	+17	1.7	1.8
Milk	9	10	9,673	5,460	-44	2.2	1.1
Hogs	11	11	3,682	3,359	-9	.8	.7
Other livestock and crops			³	³			
Total			3	3		100.0	100.0

¹ Percentages are of displayed items only. ² Includes ginger root and herbs. Beginning 2007, non-published vegetable commodities not included to avoid disclosure of individual operations, but included in total farm value. ³ Data not shown separately to avoid disclosure of individual operations but included in total farm value.


SUMMARY: Acreage in Crop and Total Farm Acreage, by County, 2004-2008

Year	Sugarcane	Pineapples ¹	Vegetables and melons ^{2,3}	Fruits (excluding pineapples)	Coffee	Macadamia nuts	All other crops ⁴	Total farm acreage ⁵
1,000 acres								
State⁶								
2004	43.0	13.0	6.7	6.0	7.7	18.0	9.4	1,300
2005	40.1	14.0	6.3	6.2	7.9	18.3	9.2	1,300
2006	42.1	12.6	5.5	6.1	8.2	17.0	9.2	1,300
2007	39.3	⁷	3.3	6.5	7.8	17.0	20.5	1,120
2008	39.7	7	3.1	5.9	7.8	17.0	18.0	1,110
County:								
Hawaii								
2004	0	*	1.7	3.8	3.8	⁸	3.0	820
2005	0	*	1.6	4.1	3.8	⁸	2.7	820
2006	0	*	1.1	3.8	3.8	⁸	2.9	820
2007	0	⁷	.9	4.3	3.8	⁸	3.2	680
2008	0	7	.9	4.0	3.8	8	2.1	670
Honolulu								
2004	0	7.5	3.8	.8	⁹ 3.9	⁸	3.0	70
2005	0	⁸	3.5	.8	⁹ 4.1	⁸	2.6	70
2006	0	⁸	3.5	.9	⁹ 4.4	⁸	2.7	70
2007	0	⁷	1.6	.9	⁹ 4.0	⁸	8.1	60
2008	0	7	1.5	.9	⁹4.0	8	8.6	60
Kauai								
2004	8.2	*	.3	.9	⁹	⁸	1.7	150
2005	7.1	*	.2	.8	⁹	⁸	1.7	150
2006	7.2	*	.1	.8	⁹	⁸	1.9	150
2007	6.9	⁷	.1	.7	⁹	⁸	2.5	150
2008	5.2	7	*	.4	9	8	2.1	150
Maui								
2004	34.8	5.5	.9	.5	⁹	⁸	1.7	260
2005	33.0	⁸	1.0	.5	⁹	⁸	2.2	260
2006	34.9	⁸	.8	.6	⁹	⁸	1.7	260
2007	32.4	⁷	.7	.6	⁹	⁸	6.7	230
2008	34.5	7	.7	.6	9	8	5.2	230

* Less than 50 acres

¹ Land used for pineapple.

² Harvested acreage.

³ Includes ginger root and herbs, 2004-2006.

⁴ Beginning 2007, includes non-published vegetable commodities, and ginger root. Includes taro, seed crops, feed and forage crops (excluding pineapple feed products), flowers, nursery products, noni, kava ('awa), and others.

⁵ Includes land not in crop and pasture such as farm house lots, roads, woodlots, etc.

⁶ Sum of county estimates may not add to State total due to rounding.

⁷ Data not shown separately to avoid disclosure of individual operations but combined and included with "All other crops".

⁸ Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

⁹ Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.



SUMMARIES

SUMMARY: Number of Crop Farms, by County, 2004-2008

Year	Sugarcane	Pineapples ¹	Vegetables and melons ²	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Taro	Flowers and nursery products
State								
2004	2	30	620	1,290	750	650	130	920
2005	2	30	600	1,265	790	650	110	955
2006	2	30	610	1,245	820	570	105	930
2007	2	40	650	1,300	830	525	105	1,060
2008	2	40	540	1,505	830	570	105	1,025
County:								
Hawaii								
2004	0	15	253	687	710	630	30	425
2005	0	15	215	664	745	600	30	425
2006	0	15	226	668	775	520	25	415
2007	0	18	230	690	790	500	25	475
2008	0	18	210	885	790	525	25	465
Honolulu								
2004	0	2	188	147	7	3	10	235
2005	0	2	213	159	3	10	10	265
2006	0	2	215	153	3	10	15	250
2007	0	1	230	160	3	5	15	285
2008	0	1	180	155	3	5	20	270
Kauai								
2004	1	8	72	196	6	7	65	80
2005	1	8	65	184	8	20	50	80
2006	1	8	63	174	10	20	45	75
2007	1	12	70	190	7	10	45	90
2008	1	12	48	193	5	20	45	90
Maui								
2004	1	5	107	260	27	10	25	180
2005	1	5	107	258	34	20	20	185
2006	1	5	106	250	32	20	20	190
2007	1	9	120	260	30	10	20	210
2008	1	9	102	272	32	20	15	200

¹ Includes specialty pineapple.

² In 2003-2006, includes ginger root, herbs, noni, kava ('awa), and others. Beginning 2007, ginger root, herbs, noni, kava ('awa) and others combined and included in the Total (non-duplicated).



SUMMARY: Number of Livestock Operations and Total Number of Farms, by County, 2004-2008

Year	Cattle ¹	Hogs	Milk	Eggs	Honey	Total (non-duplicated) ²
State						
2004	800	250	30	80	31	5,500
2005	800	230	30	80	34	5,500
2006	800	230	30	80	35	5,500
2007	1,100	230	15	80	40	7,500
2008	1,000	230	15	100	35	7,500
County:						
Hawaii						
2004	470	70	³ 15	³ 50	16	3,250
2005	470	70	³ 15	³ 50	20	3,250
2006	470	70	³ 15	³ 50	17	3,250
2007	730	70	6	50	18	4,650
2008	680	70	6	65	18	4,650
Honolulu						
2004	50	80	6	15	8	800
2005	50	70	6	15	9	800
2006	50	70	6	15	12	800
2007	60	70	3	15	14	950
2008	50	70	3	15	9	950
Kauai						
2004	120	40	4	³ 5	4	600
2005	120	30	4	³ 5	4	600
2006	120	30	4	³ 5	4	600
2007	130	30	1	5	5	750
2008	120	30	1	5	5	750
Maui						
2004	160	60	³ 5	³ 10	3	850
2005	160	60	³ 5	³ 10	1	850
2006	160	60	³ 5	³ 10	2	850
2007	180	60	5	10	3	1,150
2008	150	60	5	15	3	1,150

¹ Includes beef, dairy, and dairy replacement operations.

² 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.

³ Revised.



SUMMARIES

SUMMARY: Value of Crop Sales, by County, 2004-2008

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables, ginger root, herbs, and melons ¹	Fruits (excluding pineapples)	Coffee (parchment)
<i>1,000 dollars</i>					
State ⁴					
2004	61,500	83,104	67,892	24,533	19,880
2005	58,900	79,288	67,717	25,747	37,310
2006	50,200	73,652	73,038	27,215	31,820
2007	47,600	⁵	34,395	30,592	31,875
2008	44,200	⁵	36,632	29,158	29,580
County:					
Hawaii					
2004	0	⁶	18,859	18,504	14,880
2005	0	⁶	18,172	18,353	31,030
2006	0	⁶	18,630	18,584	25,600
2007	0	⁵	9,332	22,837	25,350
2008	0	⁵	10,661	21,851	21,730
Honolulu					
2004	0	54,704	37,661	2,791	⁷ 5,000
2005	0	⁶	38,725	3,715	⁷ 6,280
2006	0	⁶	41,812	4,961	⁷ 6,220
2007	0	⁵	16,334	4,961	⁷ 6,525
2008	0	⁵	17,951	3,937	⁷ 7,850
Kauai					
2004	15,300	⁶	1,740	1,922	⁷
2005	14,700	⁶	1,670	1,641	⁷
2006	9,500	⁶	1,543	1,717	⁷
2007	9,800	⁵	2,184	1,060	⁷
2008	9,700	⁵	1,390	988	⁷
Maui					
2004	46,200	28,400	9,632	1,316	⁷
2005	44,200	⁶	9,150	2,038	⁷
2006	40,700	⁶	11,053	1,953	⁷
2007	37,800	⁵	6,545	1,734	⁷
2008	34,500	⁵	6,630	2,382	⁷

See footnotes at end of table.

Continued


SUMMARY: Value of Crop Sales, by County, 2004-2008 -- Continued

Year	Macadami nuts (in-shell)	Taro	Seed crops	Flowers and nursery products ²	Total crops ³
<i>1,000 dollars</i>					
State⁴					
2004	41,245	2,808	62,600	95,178	459,702
2005	43,740	2,322	77,330	100,962	493,991
2006	38,860	2,565	103,040	98,725	499,684
2007	24,600	2,360	140,710	108,710	498,338
2008	33,500	2,666	176,600	98,607	526,084
County:					
Hawaii					
2004	⁶	288	⁶	50,414	143,972
2005	⁶	168	⁶	53,449	164,772
2006	⁶	180	⁶	50,527	152,302
2007	⁶	173	⁶	51,192	140,895
2008	⁶	127	⁶	42,817	138,720
Honolulu					
2004	⁶	⁸ 441	⁶	32,173	138,878
2005	⁶	⁸ 511	⁶	32,399	133,918
2006	⁶	⁸ 570	⁶	33,438	146,013
2007	⁶	⁸ 563	⁶	40,625	140,811
2008	⁶	⁸ 487	⁶	37,970	167,723
Kauai					
2004	⁶	2,079	⁶	3,056	47,652
2005	⁶	1,643	⁶	3,204	49,318
2006	⁶	1,815	⁶	2,937	60,352
2007	⁶	1,624	⁶	3,556	65,989
2008	⁶	2,052	⁶	3,898	75,410
Maui					
2004	⁶	⁸	⁶	9,535	129,200
2005	⁶	⁸	⁶	11,910	145,983
2006	⁶	⁸	⁶	11,823	141,017
2007	⁶	⁸	⁶	13,337	150,643
2008	⁶	⁸	⁶	13,922	144,231

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

⁸ Maui combined with Honolulu to avoid disclosure of individual operations.



SUMMARIES

SUMMARY: Value of Livestock Sales, Total Value of Crop, Livestock Sales, Aquaculture, and Government Payments, by Counties, 2004-2008

Year	Cattle ¹	Hogs ¹	Milk	Eggs	Aquaculture	Total livestock and aquaculture ²	Total crops, livestock, and aquaculture	Government payments ³
<i>1,000 dollars</i>								
State ⁴								
2004	22,534	4,463	20,175	10,670	28,100	92,355	552,057	2,392
2005	22,548	4,553	18,387	8,979	28,398	88,794	582,785	4,727
2006	26,452	4,158	14,508	8,192	21,257	79,906	579,590	3,796
2007	26,196	3,682	9,673	7,428	25,110	79,661	577,999	2,378
2008	24,305	3,359	5,460	8,678	34,650	83,320	609,404	2,443
County:								
Hawaii								
2004	16,873	407	5	5	21,211	51,627	195,599	NA
2005	16,790	319	5	5	20,179	50,426	215,204	NA
2006	19,809	256	5	5	17,470	48,345	200,647	NA
2007	19,676	185	5	5	20,013	52,690	193,585	NA
2008	16,493	171	5	5	27,836	56,185	194,905	NA
Honolulu								
2004	681	2,715	5	8,131	5	30,297	169,175	NA
2005	1,382	2,762	5	6,705	5	26,737	160,655	NA
2006	1,515	2,371	5	5	5	21,013	167,026	NA
2007	942	1,974	5	5	5	17,788	158,599	NA
2008	358	1,860	5	5	5	16,869	184,592	NA
Kauai								
2004	1,965	482	5	5	5	3,921	51,573	NA
2005	1,689	592	5	5	5	3,222	52,536	NA
2006	1,725	611	5	5	5	4,299	64,651	NA
2007	1,318	638	5	5	5	3,098	69,087	NA
2008	1,959	578	5	5	5	3,253	78,663	NA
Maui								
2004	3,015	859	5	5	5	6,510	135,710	NA
2005	2,686	880	5	5	5	8,408	154,391	NA
2006	3,403	920	5	5	5	6,249	147,266	NA
2007	4,260	885	5	5	5	6,085	156,728	NA
2008	5,495	750	5	5	5	7,013	151,244	NA

NA = Not available.

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

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

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

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

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



FOOD: U.S. Expenditures by Families and Individuals, Selected Years, 1930-2008¹

Year	Disposable personal income	Expenditures for food					
		At home ²		Away from home ³		Total ⁴	
	<i>Billion dollars</i>	<i>Billion dollars</i>	<i>Percent</i>	<i>Billion dollars</i>	<i>Percent</i>	<i>Billion dollars</i>	<i>Percent</i>
1930	74.7	15.8	21.2	2.3	3.1	18.1	24.2
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	3,458.1	252.7	7.3	146.4	4.2	399.0	11.5
1988	3,748.7	255.9	6.8	157.5	4.2	413.4	11.0
1989	4,021.7	274.8	6.8	165.4	4.1	440.2	10.9
1990	4,285.8	299.7	7.0	177.4	4.1	477.1	11.1
1991	4,464.3	313.5	7.0	186.3	4.2	499.8	11.2
1992	4,751.4	313.6	6.6	191.9	4.0	505.5	10.6
1993	4,911.9	323.3	6.6	205.9	4.2	529.1	10.8
1994	5,151.8	337.1	6.5	216.5	4.2	553.5	10.7
1995	5,408.2	345.5	6.4	226.2	4.2	571.7	10.6
1996	5,688.5	360.6	6.3	233.2	4.1	593.8	10.4
1997	5,988.8	377.2	6.3	246.3	4.1	623.5	10.4
1998	6,395.9	387.1	6.1	259.7	4.1	646.8	10.1
1999	6,695.0	408.8	6.1	272.0	4.1	680.8	10.2
2000	7,194.0	420.1	5.8	291.3	4.0	711.4	9.9
2001	7,486.8	442.5	5.9	301.3	4.0	743.8	9.9
2002	7,830.1	455.0	5.8	313.9	4.0	768.9	9.8
2003	8,162.5	473.1	5.8	329.6	4.0	802.8	9.8
2004	8,680.9	491.1	5.7	347.9	4.0	839.1	9.7
2005	9,092.0	518.2	5.7	367.2	4.0	885.4	9.7
2006	9,640.7	550.9	5.7	390.3	4.0	941.2	9.8
2007	10,170.5	578.6	5.7	408.9	4.0	987.4	9.7
2008	10,637.0	598.2	5.6	422.1	4.0	1,020.3	9.6

¹ Revised.

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

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	350	2007	90	1975	1946
Production	1,000 lbs.	1,600	1982	400	1996	1946
Price ²	¢/lb.	73.0	2008	6.1	1959	1946
Bananas						
Harvested	Acres	1,490	2001	550	1977	1946
Production	1,000 lbs.	29,000	2000	4,470	1983	1946
Price ²	¢/lb.	49.0	2006	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.	30.0	2004	3.0	1959	1946
Coffee						
Harvested	Acres	6,800	2000	1,650	1985	1946
Production	1,000 lbs.	18,496	1957	990	1982	1946
Price ²	¢/lb.	455.0	2005	17.8	1946	1946
Foliage, potted (indoor)						
Sales (value)	\$1,000	19,236	2001	171	1972	1972
Ginger Root						
Harvested	Acres	360	2001	11	1974	1946
Production	1,000 lbs.	18,000	2001	352	1974	1946
Price ²	¢/lb.	160.0	2008	16.2	1949	1946
Guavas						
Harvested	Acres	1,040	1990	60	1957	1955
Production	1,000 lbs.	24,100	1990	1,737	1957	1955
Price ²	¢/lb.	15.8	2008	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	
Sugar³						
Harvested	Acres	145,000	1933	19,300	2001	1909
Yield/acre (sugar)	Tons/acre	13.15	2003	4.81	1910	1909
Production (raw sugar)	1,000 tons	1,234	1966	185	2008	1909
Price ² (sugar)	\$/ton	633.00	1974	52.00	1940	1909
Taro						
Harvested	Acres	1,020	1948	320	1980	1946
Production	1,000 lbs.	14,195	1948	4,000	2007	1946
Price ²	¢/lb.	62.0	2008	3.1	1949	1946
Cattle and calves						
Jan. 1 inventory	Head	249,000	1971	130,000	1946	1946
Production (live weight)	1,000 lbs.	64,750	1989	25,470	1953	1946
Price ²	\$/cwt.	76.70	2006	12.30	1946	1946
Hogs and pigs						
Dec. 1 inventory	Head	72,000	1965	13,000	2008	1960
Production (live weight)	1,000 lbs.	13,159	1978	3,456	2008	1960
Price ²	\$/cwt.	97.20	2008	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.	30.50	2008	6.75	1946	1946
Eggs						
Layers Dec. 1	Birds	1,037,000	1974	302,000	1950	1950
Production	Million eggs	229.3	1979	73.3	2008	1958
Price ²	¢/doz.	142.0	2008	39.2	1968	1958

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

² Prices are annual or crop-year average.

³ Primary data source, Hawaii Agricultural Research Center.



AGRICULTURE'S CONTRIBUTIONS TO HAWAII'S ECONOMY, 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 Hawaii'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 product¹ (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 million 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, 2004-2008¹

Item ²	2004	2005	2006	2007	2008
	<i>1,000 dollars</i>				
Value of crop production	476,600	510,757	513,034	516,512	511,602
Fruits and tree nuts	168,767	186,083	171,546	129,836	133,094
Vegetables	69,082	68,162	73,560	68,570	68,698
All other crops	238,174	255,954	267,340	317,579	309,176
Home consumption	577	558	588	527	634
Value of inventory adjustment ³	0	0	0	0	0
Value of livestock production	79,157	77,527	65,674	64,902	61,679
Meat animals	26,997	27,100	30,610	29,878	27,664
Dairy products	20,175	18,387	14,508	9,673	5,460
Poultry and eggs	12,252	9,539	8,681	7,902	8,767
Miscellaneous livestock	20,379	19,173	14,253	21,467	21,270
Home consumption	118	114	120	108	130
Value of inventory adjustment ³	-764	3,214	-2,498	-4,126	-1,612
Revenues from services and forestry	71,428	66,391	75,046	70,189	80,513
Machine hire and customwork	14,870	11,472	9,878	8,900	10,041
Forest products sold	400	400	400	400	400
Other farm income	22,916	19,250	25,077	22,791	32,335
Gross imputed rental value of farm dwellings	33,242	35,269	39,691	38,098	37,737
Value of agricultural sector production	627,185	654,675	653,754	651,603	653,794
less: Purchased inputs	217,424	237,522	248,904	245,834	251,299
Farm origin	45,647	42,276	37,955	37,625	43,496
Feed purchased	25,826	22,717	19,469	19,610	25,425
Livestock and poultry purchased	414	94	65	65	93
Seed purchased	19,407	19,465	18,421	17,950	17,978
Manufactured inputs	74,619	88,832	98,440	88,090	88,778
Fertilizers and lime	23,822	29,815	34,059	30,238	30,799
Pesticides	17,338	19,666	20,787	17,238	17,143
Petroleum fuel and oils	20,676	24,433	26,981	23,619	23,789
Electricity	12,783	14,918	16,613	16,995	17,047
Other purchased inputs ⁴	97,158	106,414	112,509	120,119	119,025
plus: Net government transactions ⁵	-5,999	-4,927	-7,274	7,628	-5,677
Gross value added	403,763	412,226	397,576	398,141	396,818
less: Capital consumption	41,107	42,583	43,751	44,813	47,845
Net value added	362,656	369,643	353,825	353,328	348,973
less: Payments to stakeholders	211,493	207,030	209,117	209,704	204,623
Employee compensation (total hired labor)	185,978	179,917	181,149	183,224	178,578
Net rent received by nonoperator landlords	10,184	9,149	7,550	5,133	5,523
Real estate and nonreal estate interest	15,331	17,964	20,418	21,347	20,522
Net farm income	151,163	162,613	144,708	143,624	144,350

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 expense, 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.



2008 SUGAR AND SPECIALTY CROP HIGHLIGHTS

◆ **Sugar**

Sugar production for 2008 was 185,000 tons of 96⁰ raw sugar, a decrease of 10 percent from the previous year. This was the sixth consecutive year for which raw sugar production declined. Sugar price during 2008 increased 4 percent to \$357 per ton of 96⁰ raw sugar, which generated a raw sugar total value of \$66.1 million, 7 percent less than in 2007. Hawaii's sugar plantations were able to harvest 1.4 million tons of sugarcane from 20,400 acres. This production level was 5 percent less than 2007 and also was the sixth year of decline. The average yield for sugarcane harvested in 2008 was 69.7 tons per acre.

◆ **Coffee**

Coffee growers harvested 6,300 acres of coffee during the 2008-2009 growing season, 2 percent below previous year. Production increased to 8.7 million pounds, 16 percent higher than last year. The average farm price for coffee from the 2008-2009 season was \$3.40 a pound (parchment equivalent basis); this was 85 cents a pound below the revised average price from the 2007-2008 season. Total farm revenues generated was an estimated \$29.6 million (parchment equivalent basis), down 7 percent from the revised 2007-2008 value of \$31.9 million. Coffee production from Hawaii County increased 5 percent from a year earlier to 4.1 million pounds (parchment equivalent basis), while production from the remaining counties (Honolulu, Kauai, and Maui) increased 28 percent from the previous season to 4.6 million pounds (parchment equivalent basis). The total value of sales for the combined counties of Honolulu, Kauai, and Maui was \$7.9 million, 20 percent more than during the 2007-2008 season.

◆ **Macadamia Nuts**

Hawaii's Macadamia nut growers delivered an estimated 60.0 million pounds of macadamia nuts, wet-in-shell, to processors during the 2008-09 season. About 17 percent of the harvest was culled, resulting in 50.0 million pounds net, wet-in-shell which is up 9 million pounds or 22 percent from last season's harvest. Losses from immature and moldy, rotten nuts accounted for more than half of the losses. Damage from insects, Tropical Nut Borer, Koa Seed Worm, and Stink Bug, was another cause being reported. This season nuts were being left on the ground longer than usual. Macadamia nut losses include only those culled by processors and do not include losses that occurred at the farm before delivery.

Timely showers and an increased demand for in-shell nuts contributed to this season's higher output. Processors noted some improvement in the quality of nuts delivered this season. On the other hand, growers did report the prolonged dry conditions, pests, pigs, and volcanic haze adversely affected orchards and harvesting. Others mentioned it was economically unfeasible to pick their crop and may switch to other commodities or temporarily stop farming.

Overall, yields averaged 3,330 pounds per acre (net, wet-in-shell basis) for the 2008-2009 season, or 600 pounds more per acres than the previous season. Total acreage and harvested acreage for the 2008-2009 season remained unchanged at 17,000 and 15,000 acres, respectively. The farm price for net, wet-in-shell macadamia nuts averaged 67.0 cents per pound, 7.0 cents higher than the 2007-2008 average, but matches the 2006-2007 average price.



**COFFEE: Number of Farms, Acreage, Yield, Marketings, Price, and Value,
by County, 2004/2005-2008/2009 Crop Years**

Crop year ¹	Farms	Acreage		Yield per acre ²	Marketings ³	Farm prices			Value of sales	Green production
		In crop	Harvested			Cherry	Parchment	All ⁴		
	<i>Number</i>	<i>Acres</i>		<i>1,000 pounds</i>		<i>Cents per pound</i>			<i>1,000 dollars</i>	<i>1,000 pounds</i>
State										
2004-2005	750	7,700	5,800	1.0	5,600			355.0	19,880	4,500
2005-2006	790	7,900	6,100	1.3	8,200			455.0	37,310	6,600
2006-2007	820	8,200	6,300	1.2	7,400			430.0	31,820	5,900
2007-2008	830	7,800	6,400	1.2	7,500			425.0	31,875	6,000
2008-2009	830	7,800	6,300	1.4	8,700			340.0	29,580	7,000
County:										
Hawaii										
2004-2005	710	3,750	3,300	1.0	3,200	110.0	660.0	465.0	14,880	2,560
2005-2006	745	3,800	3,300	1.8	5,800	120.0	670.0	535.0	31,030	4,700
2006-2007	775	3,800	3,000	1.3	4,000	135.0	765.0	640.0	25,600	3,200
2007-2008	790	3,800	3,000	1.3	3,900	140.0	820.0	650.0	25,350	3,100
2008-2009	790	3,800	2,900	1.4	4,100	115.0	680.0	530.0	21,730	3,300
Honolulu/Kauai/Maui⁵										
2004-2005	40	3,950	2,500	1.0	2,400			208.3	5,000	1,940
2005-2006	45	4,100	2,800	.9	2,400			261.7	6,280	1,900
2006-2007	45	4,400	3,300	1.0	3,400			182.9	6,220	2,700
2007-2008	40	4,000	3,400	1.1	3,600			181.3	6,525	2,900
2008-2009	40	4,000	3,400	1.4	4,600			170.7	7,850	3,700

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

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

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

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

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



Hawaii's ginger root production is estimated at 1.6 million pounds for the 2008-2009 season, this was 11 percent less than in the previous season. The ginger root was harvested from 50 acres, a decrease of 10 acres from 2007-2008 season. The average farm price for this

season is estimated at 140.0 cents per pound, a decrease of 13 percent from the 2007-2008 season. Farm value for the 2008-2009 harvest is estimated at \$2.2 million, 22 percent lower than the previous season.

**GINGER ROOT: Acreage, Yield, Production, Price, and Value,
State of Hawaii, 2004/2005-2008/2009 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
2004-2005	120	42.5	5,100	80.0	4,080
2005-2006	100	43.0	4,300	70.0	3,010
2006-2007	80	35.0	2,800	85.0	2,380
2007-2008	60	30.0	1,800	160.0	2,880
2008-2009	50	32.0	1,600	140.0	2,240

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

GINGER ROOT: U.S. Imports, 2004-2008

Year	Unground (including fresh)	Ground	Sweet	Candied	Total ¹
			1,000 pounds		
2004	59,336	4,603	5,790	2,955	72,684
2005	66,864	3,742	7,578	3,472	81,656
2006	68,739	3,029	8,034	4,268	84,068
2007	75,084	3,206	9,468	4,568	92,325
2008	91,457	2,119	12,064	4,068	109,708

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

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



FRESH HERBS: Production, Price, and Value, State of Hawaii, 2004-2008

Year	Basil			Parsley	Chinese parsley (Cilantro)	Other herbs ¹	All herbs
	Sweet (Italian)	Asian	Total				
Production – 1,000 pounds							
2004	1,800	1,000	2,800	280	240	580	3,900
2005	1,700	1,300	3,000	250	200	950	4,400
2006	2,000	1,600	3,600	250	200	1,650	5,700
2007	2,100	1,600	3,700	140	150	1,410	5,400
2008	2,500	1,700	4,200	100	180	1,120	5,600
Farm price – dollars per pound							
2004	2.05	.95		2.00	2.20	2.15	
2005	2.45	1.10		1.85	2.60	2.15	
2006	1.90	.95		1.85	2.40	1.70	
2007	1.65	1.25		2.10	2.60	2.20	
2008	1.75	1.40		2.25	2.40	2.15	
Farm value – 1,000 dollars							
2004	3,690	950	4,640	560	528	1,247	6,975
2005	4,165	1,430	5,595	463	520	2,043	8,621
2006	3,800	1,520	5,320	462	480	2,805	9,067
2007	3,465	2,000	5,465	294	390	3,102	9,251
2008	4,375	2,380	6,755	225	432	2,408	9,820

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

SEED CROPS: Number of Farms, Acreage, Outshipments, and Value, State of Hawaii, 2004/2005-2008/2009

Crop year ¹	Farms	Acreage				Total outshipments of seed	Value ²		
		Total	Nursery	Seed increase	Grow-out or observation		Total	Seed corn	Other seed crops
	<i>Number</i>	<i>Acres</i>				<i>1,000 pounds</i>	<i>1,000 dollars</i>		
2004-2005	10	3,680	1,090	2,450	140	6,900	62,600	60,200	2,400
2005-2006	10	4,140	1,360	2,740	40	7,550	77,330	74,800	2,530
2006-2007	10	4,260	1,295	2,910	55	10,470	103,040	98,050	4,990
2007-2008	10	5,300	1,830	3,470	0	8,380	140,710	135,580	5,130
2008-2009	10	5,930	1,870	4,050	10	10,060	176,600	169,340	7,260

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

² Value is based on sales or gross operational budgets.



SUGARCANE

SUGARCANE: Number of Farms, Acreage, Yield, Production, Price, and Value, by County, 2004-2008 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			
	<i>Number</i>	<i>----- 1,000 acres -----</i>		<i>----- Tons -----</i>		<i>1,000 tons</i>	<i>Dollars per ton</i>	<i>Million dollars</i>
State								
2004	2	43.0	21.8	90.8	11.83	1,979	31.10	61.5
2005	2	40.1	21.7	80.8	11.61	1,753	33.60	58.9
2006	2	42.1	20.4	79.1	10.44	1,614	31.10	50.2
2007	2	39.3	20.4	73.2	10.11	1,493	31.90	47.6
2008	2	39.7	20.4	69.7	9.05	1,422	31.10	44.2
County:								
Kauai								
2004	1	8.2	4.9	87.8	12.06	430	35.60	15.3
2005	1	7.1	5.1	82.7	11.70	422	34.80	14.7
2006	1	7.2	3.5	83.1	11.44	291	32.70	9.5
2007	1	6.9	3.5	86.6	11.89	303	32.20	9.8
2008	1	5.2	3.5	88.6	11.55	310	31.40	9.7
Maui								
2004	1	34.8	16.9	91.7	11.77	1,549	29.80	46.2
2005	1	33.0	16.6	80.2	11.58	1,331	33.20	44.2
2006	1	34.9	16.9	78.3	10.24	1,323	30.80	40.7
2007	1	32.4	16.9	70.4	9.74	1,190	31.80	37.8
2008	1	34.5	16.9	65.8	8.55	1,112	31.00	34.5

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, 2004-2008 ¹

Year	Mill production		Average returns received ²		Value of production		
	Raw sugar 96 ^o	Molasses ³	Raw sugar 96 ^o	Molasses ³	Raw sugar 96 ^o	Molasses ³	Total
	----- 1,000 tons -----		----- Dollars per ton -----		----- Million dollars -----		
State							
2004	258	80	355	29.50	91.7	2.4	94.1
2005	253	73	347	63.30	87.9	4.6	92.5
2006	213	66	351	74.70	74.8	4.9	79.7
2007	206	62	344	85.80	70.9	5.4	76.3
2008	185	63	357	84.20	66.1	5.3	71.4
County:							
Kauai							
2004	59	15	386	40.00	22.8	.6	23.4
2005	60	16	365	75.00	21.9	1.2	23.1
2006	40	10	356	70.00	14.2	.7	14.9
2007	41	12	353	79.30	14.5	1.0	15.5
2008	40	11	365	70.00	14.6	.8	15.4
Maui							
2004	199	65	346	27.10	68.9	1.8	70.7
2005	193	57	342	60.00	66.0	3.4	69.4
2006	173	56	350	75.50	60.6	4.2	64.8
2007	165	50	342	87.30	56.4	4.4	60.8
2008	145	52	355	87.20	51.5	4.5	56.0

¹ Primary data source, Hawaii Agricultural Research Center.

² Derived from production and value. State and county prices may not compute exactly due to rounding.

³ Commercial.



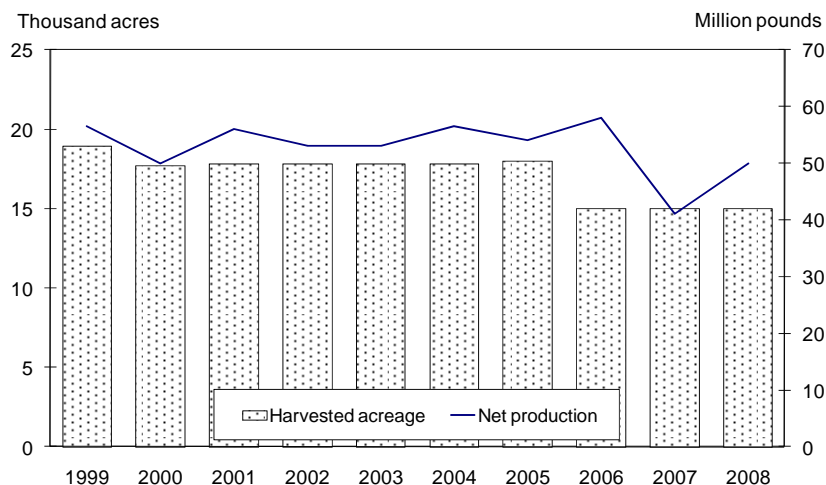
MACADAMIA NUTS

MACADAMIA NUTS: Number of Farms, Acreage, Yield, Production, Moisture, Price, and Value, State of Hawaii, 2004/2005-2008/2009 Crop Years

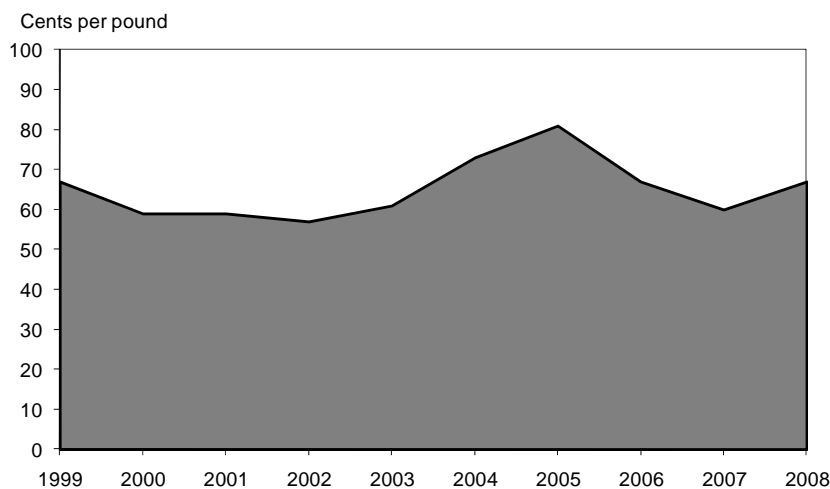
Crop year ¹	Farms	Acreage		Yield per acre ²	Utilized production ³		Average moisture		Farm prices ³		Farm value ⁶
		In crop	Harvested		Gross	Net ⁴	Entire crop	Purchases only	Gross ⁵	Net	
	Number	----- Acres -----		----- 1,000 pounds -----			----- Percent -----		Cents per pound -----		1,000 dollars
2004-2005	650	18,000	17,800	3.2	63,000	56,500	20.7	21.0	65.5	73.0	41,245
2005-2006	650	18,300	18,000	3.0	62,000	54,000	20.7	20.4	70.5	81.0	43,740
2006-2007	570	17,000	15,000	3.9	65,000	58,000	21.2	22.1	59.8	67.0	38,860
2007-2008	525	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

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, 1999-2008 Seasons



MACADAMIA NUTS: Net, Wet-In-Shell Farm Prices, State of Hawaii, 1999-2008 Seasons



FLORICULTURE AND NURSERY PRODUCTS



Hawaii County's 465 producers accounted for 43 percent of the State's total wholesale value of flowers and nursery products with \$42.8 million, dropping 16 percent from 2007. Honolulu County's 270 producers accounted for 39 percent of the State's total wholesale value of flowers and nursery products. Farmers reported sales of \$38.0 million, falling 7 percent

from the previous year. Maui County's 200 producers contributed \$13.9 million in sales, 4 percent more than a year ago. Kauai County's 90 producers registered \$3.9 million in sales, 10 percent above 2007. Landscaping materials ranked as the top product in all counties.

FLORICULTURE AND NURSERY PRODUCTS: Value of Grower Sales, by County, 2004-2008

Year	Cut flowers ¹	Orchids ²	Lei flowers	Foliage ³	Potted flowering plants	All other nursery products ⁴	Unspecified sales ⁵	Total
<i>1,000 dollars</i>								
State								
2004	13,204	22,769	3,397	17,621	6,004	30,848	1,335	95,178
2005	13,997	22,225	3,687	19,509	6,278	33,796	1,470	100,962
2006	13,536	21,510	3,520	17,967	6,092	34,645	1,455	98,725
2007	12,170	21,542	4,709	20,074	6,499	41,996	1,720	108,710
2008	10,022	19,124	3,791	15,587	6,683	41,615	1,785	98,607
County:								
Hawaii								
2004	9,752	14,514	911	15,083	1,083	8,431	640	50,414
2005	10,160	14,302	933	16,826	965	9,663	600	53,449
2006	9,564	13,825	811	14,821	1,160	9,751	595	50,527
2007	7,704	14,075	656	16,197	1,153	10,687	720	51,192
2008	6,382	12,332	532	11,524	1,164	10,088	795	42,817
Honolulu								
2004	733	6,813	1,554	2,024	3,488	17,221	340	32,173
2005	806	6,490	1,482	2,143	3,409	17,669	400	32,399
2006	955	6,197	1,342	2,292	3,569	18,718	365	33,438
2007	952	5,922	2,507	3,201	4,413	23,200	430	40,625
2008	854	5,191	1,790	3,243	4,245	22,212	435	37,970
Kauai								
2004	189	524	52	64	159	1,928	140	3,056
2005	193	442	23	58	283	2,045	160	3,204
2006	232	496	33	341	98	1,597	140	2,937
2007	221	441	42	54	72	2,546	180	3,556
2008	163	483	37	293	72	2,645	205	3,898
Maui								
2004	2,530	918	880	450	1,274	3,268	215	9,535
2005	2,838	991	1,249	482	1,621	4,419	310	11,910
2006	2,785	992	1,334	513	1,265	4,579	355	11,823
2007	3,293	1,104	1,504	622	861	5,563	390	13,337
2008	2,623	1,118	1,432	527	1,202	6,670	350	13,922

¹ Cut orchids included in "Orchids" category.

² Includes cut and potted orchids.

³ Includes potted, cut, and unfinished.

⁴ Includes bedding/garden plants, plant rentals, landscape plants, propagation materials, sod, trees, and any other nursery products not elsewhere classified.

⁵ Includes grower sales greater than \$999 but less than \$10,000 which were not categorized.



FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2004-2008¹

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
CUT FLOWERS			
Anthuriums - dozens			
2004	59	617	4,665
2005	58	592	5,101
2006	58	661	4,878
2007	56	667	4,530
2008	46	560	3,736
Birds of Paradise - dozens			
2004	30	51	426
2005	33	49	380
2006	31	46	352
2007	31	28	207
2008	27	27	181
Chrysanthemums, pompon - bunches			
2004	4	217	453
2005	4	211	447
2006	5	205	441
2007	5	201	452
2008	5	191	437
Ginger, pink - dozens			
2004	45	47	456
2005	47	62	454
2006	52	69	549
2007	46	52	431
2008	48	49	410
Ginger, red - dozens			
2004	57	132	1,044
2005	64	134	995
2006	60	135	1,059
2007	59	118	952
2008	53	107	804
Gingers, other - dozens			
2004	32	23	261
2005	24	18	163
2006	20	21	206
2007	19	15	139
2008	21	12	110
Heliconias - dozens			
2004	60	71	853
2005	60	71	762
2006	64	68	822
2007	61	67	772
2008	53	62	677

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS



FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2004-2008¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
Proteas - stems			
2004	32	1,921	1,416
2005	28	1,635	1,928
2006	31	2,293	1,828
2007	30	1,932	2,098
2008	22	1,355	1,297
Other cut flowers - dozens			
2004	49	NA	3,630
2005	47	NA	3,767
2006	38	NA	3,401
2007	46	NA	2,589
2008	53	NA	2,370
ORCHIDS			
Cymbidiums, cut			
2004	13	408	291
2005	13	428	311
2006	8	356	261
2007	10	407	243
2008	7	375	230
Dendrobiums, cut - dozens			
2004	50	453	3,194
2005	48	391	3,078
2006	43	309	2,481
2007	36	303	2,260
2008	39	287	2,163
Oncidiinae, cut³ - dozens			
2004	29	60	706
2005	28	59	674
2006	26	59	630
2007	20	48	535
2008	21	54	573
Other cut orchids⁴ - dozens			
2004	18	NA	183
2005	13	NA	107
2006	15	NA	721
2007	15	NA	727
2008	17	NA	794

See footnotes at end of table.

Continued



FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2004-2008 ¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
Dendrobiums, potted ⁵			
2004	80	1,236	6,679
2005	77	1,142	6,056
2006	76	994	5,600
2007	60	911	5,092
2008	58	748	4,077
Dendrobiums, seedlings ⁶			
2004			
2005			
2006			
2007	7	NA	343
2008	9	NA	363
Oncidiinae, potted ³			
2004	43	464	3,113
2005	46	403	2,942
2006	37	222	1,310
2007	44	521	3,673
2008	42	401	3,084
Phalaenopsis, potted			
2004	32	174	1,018
2005	23	80	717
2006	23	90	752
2007	19	139	1,029
2008	20	118	937
Other potted orchids			
2004	78	1,352	7,585
2005	75	1,374	8,340
2006	78	1,615	9,755
2007	63	1,428	7,640
2008	59	1,170	6,903
FOLIAGE			
Dracaena, potted			
2004	29	NA	5,735
2005	28	NA	7,030
2006	26	NA	5,540
2007	29	NA	6,010
2008	25	NA	3,930

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS



FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2004-2008¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
Palms, potted			
2004	45	NA	7,311
2005	49	NA	8,135
2006	49	NA	8,309
2007	39	NA	8,698
2008	35	NA	6,664
Hanging baskets, potted			
2004	16	NA	208
2005	13	NA	178
2006	15	NA	110
2007	11	NA	132
2008	13	NA	127
Other potted foliage			
2004	28	NA	2,702
2005	31	NA	2,499
2006	29	NA	2,170
2007	32	NA	3,763
2008	28	NA	3,555
Ti leaves, cut - leaves			
2004	39	6,100	571
2005	41	5,800	668
2006	45	6,400	704
2007	35	3,800	387
2008	40	3,400	376
Other cut greens			
2004	34	NA	352
2005	46	NA	382
2006	44	NA	530
2007	40	NA	547
2008	41	NA	426
Unfinished foliage stock			
2004	11	NA	742
2005	10	NA	617
2006	10	NA	604
2007	9	NA	537
2008	6	NA	509
LEI/INDIVIDUAL BLOOMS			
Carnations – blooms			
2004	5	3,800	242
2005 ⁷			
2006 ⁷			
2007 ⁷			
2008⁷			

See footnotes at end of table.

Continued



FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2004-2008¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
Dendrobiums - blooms			
2004	26	18,100	580
2005	21	17,300	588
2006	23	14,900	535
2007	20	8,500	282
2008	24	9,900	336
Pikake - strands			
2004	5	56.0	158
2005	5	25.0	79
2006	6	56.0	160
2007	5	65.0	183
2008	5	56.0	167
Plumerias - blooms			
2004	13	16,000	510
2005	14	14,500	506
2006	15	13,200	397
2007	15	12,800	566
2008	11	9,500	400
Tuberoses - blooms			
2004	7	28,200	1,301
2005 ⁷			
2006 ⁷			
2007 ⁷			
2008⁷			
Vandaceous⁸ - blooms			
2004	8	5,700	210
2005	6	8,300	306
2006	5	10,800	423
2007	4	7,400	331
2008⁷			
Other lei/individual - blooms			
2004	NA	NA	396
2005	NA	NA	2,208
2006	NA	NA	2,005
2007	NA	NA	3,347
2008	NA	NA	2,888
POTTED FLOWERING PLANTS			
Anthuriums			
2004	28	164	883
2005	17	101	549
2006	19	110	500
2007	13	101	379
2008	13	90	356

See footnotes at end of table.

Continued

FLORICULTURE AND NURSERY PRODUCTS



FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2004-2008¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
Bromeliads			
2004	11	131	583
2005	14	126	580
2006	11	140	648
2007	9	191	818
2008	11	169	760
Chrysanthemums			
2004	5	93	468
2005 ⁹			
2006 ⁹			
2007 ⁹			
2008⁹			
Poinsettias			
2004	30	327	1,409
2005	31	360	1,644
2006	30	329	1,560
2007	20	291	1,306
2008	18	293	1,455
Other potted flowering plants			
2004	21	NA	2,661
2005	31	NA	3,505
2006	28	NA	3,384
2007	27	NA	3,996
2008	30	NA	4,112
POTTED BEDDING/GARDEN			
Impatiens, New Guinea			
2004	14	139	223
2005	13	132	213
2006	10	162	292
2007	8	111	155
2008	8	106	165
Impatiens, other			
2004	13	440	303
2005	15	286	176
2006	11	254	146
2007	8	203	114
2008	8	193	106
Other bedding/garden			
2004	31	NA	3,137
2005	26	NA	2,551
2006	25	NA	2,828
2007	19	NA	3,130
2008	23	NA	2,925

See footnotes at end of table.

Continued



FLORICULTURE AND NURSERY PRODUCTS

FLORICULTURE AND NURSERY PRODUCTS: Number of Farms, Quantity, and Value, State of Hawaii, 2004-2008¹ -- Continued

Crop	Farms having sales ²	Quantity sold	Value of sales
	<i>Number</i>	<i>1,000</i>	<i>1,000 dollars</i>
PLANT RENTALS			
2004	45	NA	3,385
2005	43	NA	4,931
2006	42	NA	5,199
2007	43	NA	6,830
2008	46	NA	5,709
LANDSCAPE PLANT MATERIAL			
Sod¹⁰			
2004			
2005			
2006			
2007	13	NA	4,515
2008	19	NA	4,627
Other landscape plant material¹¹			
2004	128		19,219
2005	154		20,887
2006	138		20,813
2007	152		23,145
2008	147		23,851
OTHER NURSERY PRODUCTS¹²			
2004			4,581
2005			5,038
2006			5,367
2007			4,107
2008			4,232
UNSPECIFIED SALES¹³			
2004			1,335
2005			1,470
2006			1,455
2007			1,720
2008			1,785
TOTAL			
2004	920		95,178
2005	955		100,962
2006	930		98,725
2007	1,060		108,710
2008	1,025		98,607

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 Prior to 2007, formerly called Oncidium. ⁴ Includes cattleyas, vandaceous, phalaenopsis, and others. ⁵ Prior to 2007, included in bud/bloom and community pots. Beginning 2007, includes in bud/bloom. Community pots included with "Dendrobiums, seedlings". ⁶ Data series beginning 2007. Includes community pots, liners, tissue culture flasks, plugs, etc. ⁷ Data not shown separately to avoid disclosure of individual operations but combined and included with "Other lei/individual". ⁸ Prior to 2007, formerly called Vanda, Miss Joaquim. ⁹ Data not shown separately to avoid disclosure of individual operations but combined and included with "Other potted flowering plants." ¹⁰ Data series beginning 2007. ¹¹ Includes broadleaf and coniferous evergreens, deciduous and flower trees, palms, and citrus, fruit and nut trees. 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. Beginning 2007, excludes sod. ¹² Includes other flowers or nursery products not elsewhere classified. ¹³ Includes grower sales greater than \$999 but less than \$10,000 which were not categorized.

FLORICULTURE AND NURSERY PRODUCTS



FLORICULTURE AND NURSERY PRODUCTS: Number of Farms and Growing Area, by County, 2004-2008

Year	Farms	Greenhouse ¹	Artificial shade	Open field	Total area
	<i>Number</i>	<i>----- 1,000 square feet -----</i>		<i>----- Acres -----</i>	
State					
2004	920	2,620	26,560	3,160	3,830
2005	955	2,095	27,015	3,320	3,988
2006	930	2,190	25,410	3,430	4,064
2007	1,060	2,020	25,015	3,755	4,376
2008	1,025	2,135	24,020	2,640	3,240
County:					
Hawaii					
2004	425	1,990	20,840	1,880	2,404
2005	425	1,445	20,980	1,940	2,455
2006	415	1,450	20,165	2,085	2,581
2007	475	1,435	19,805	2,200	2,688
2008	465	1,475	18,470	1,180	1,638
Honolulu					
2004	235	255	4,660	525	638
2005	265	275	4,715	660	774
2006	250	255	3,980	610	707
2007	285	140	4,215	695	795
2008	270	130	4,405	595	699
Kauai					
2004	80	90	310	225	234
2005	80	110	525	195	210
2006	75	205	530	215	232
2007	90	90	505	220	234
2008	90	155	500	235	250
Maui					
2004	180	285	750	530	554
2005	185	265	795	525	549
2006	190	280	735	520	544
2007	210	355	490	640	659
2008	200	375	645	630	653

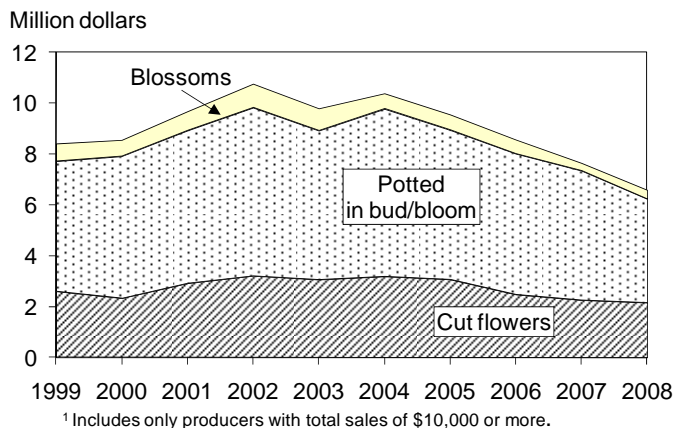
¹ Glass or glass substitute structure.



FLORICULTURE AND NURSERY PRODUCTS



DENDROBIUMS: Value of Sales, State of Hawaii, 1999-2008 ¹



DENDROBIUM ORCHIDS: Sales and Value, State of Hawaii, 2004-2008 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	
	<i>Million blooms</i>	<i>1,000 dollars</i>	<i>1,000 dozens</i>	<i>1,000 dollars</i>	<i>1,000 pots</i>	<i>1,000 dollars</i>	<i>1,000 pots</i>	<i>----- 1,000 dollars -----</i>	
2004	18.1	580	453	3,194	1,222	6,599	14	80	10,453
2005	17.3	588	391	3,078	1,103	5,879	39	177	9,722
2006	14.9	535	309	2,481	984	5,540	10	60	8,616
2007	8.5	282	303	2,260	911	5,092	NA	343	7,977
2008	9.9	336	287	2,163	748	4,077	NA	363	6,939

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.

DENDROBIUM ORCHIDS (POTTED IN BUD/BLOOM AND CUT SPRAYS): Number of Farms and Production Area, State of Hawaii, 2004-2008 ¹

Year	Farms		Production area		Total
	Cut flowers ²	Potted in bud/bloom	Cut flowers ²	Potted in bud/bloom	
	<i>----- Number -----</i>		<i>----- 1,000 square feet -----</i>		
2004	50	75	3,015	2,225	5,240
2005	48	72	3,315	2,355	5,670
2006	43	73	2,550	2,395	4,945
2007	36	60	2,390	2,640	5,030
2008	39	58	2,280	2,510	4,790

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

² Prior to 2007, formerly called cut sprays.

FLORICULTURE AND NURSERY PRODUCTS



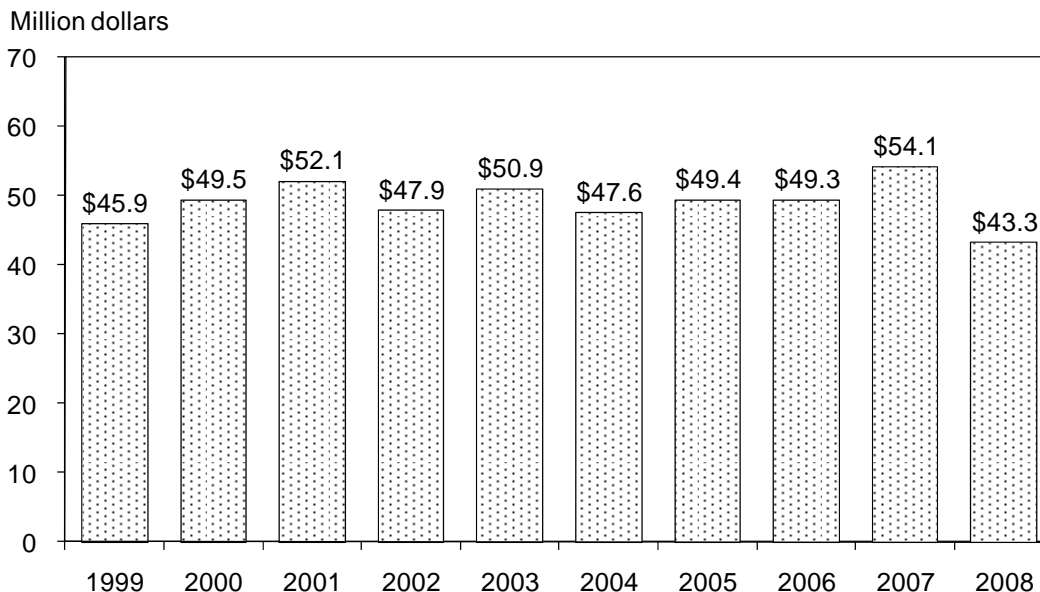
FLORICULTURE AND NURSERY PRODUCTS: Out-of-State Sales, State of Hawaii, 2004-2008 ¹

Commodity	2004	2005	2006	2007	2008
<i>1,000 dollars</i>					
CUT FLOWERS					
Anthuriums	6,475	6,210	6,935	6,905	5,800
Birds of Paradise	540	530	510	390	380
Ginger, red	810	680	620	520	510
Gingers, other	670	550	550	510	470
Heliconias	1,200	1,000	1,100	1,100	1,000
Proteas	1,715	2,000	1,900	2,040	1,500
Mixed assortment of cut flowers	1,100	1,600	3,020	3,910	3,890
ORCHIDS					
Cymbidiums, cut	135	140	135	140	135
Dendrobiums, cut	3,900	3,900	3,100	3,200	3,100
Oncidiinae, cut ²	505	470	580	485	680
Dendrobiums, potted	4,645	4,335	3,760	3,100	1,900
Oncidiinae, potted ²	2,775	2,430	1,250	2,920	3,720
Phalaenopsis, potted	765	530	480	325	400
Other potted orchids	5,610	7,805	9,285	7,975	5,765
FOLIAGE					
Foliage, potted	11,300	13,200	11,600	14,000	9,400
Ti leaves, cut	640	650	700	500	500
Other cut greens	1,400	1,200	1,400	1,400	1,300
ALL OTHER FLOWERS AND NURSERY PRODUCTS					
	3,400	2,200	2,400	4,700	2,800
Total	47,585	49,430	49,325	54,120	43,250

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.

FLORICULTURE & NURSERY PRODUCTS: Out-of-State Sales, State of Hawaii, 1999-2008 ¹



¹ Includes wholesale and retail sales.



Hawaii fruit growers harvested 58.5 million pounds of fruit, excluding pineapple, for fresh and processed utilization in 2008. This was a 13 percent decrease when compared to the 2007 total. Overall value, excluding pineapple, fell 5 percent to \$29.2 million due to decline in the major fruits. In 2008, fruit acreage, excluding pineapple, totaled 5,918 acres, 9 percent less than the 2007 total. Harvested area, excluding pineapple, was down 4 percent to 4,195 acres.

◆ **Avocado**

In 2008, the in crop acreage for avocado increased 3 percent to 400 acres but bearing acreage decreased 6 percent to 330 acres when compared to last year. Production totaled 1.0 million pounds, falling 14 percent from 2007. Despite a higher farm price, the lower output dropped value of sales to \$730 thousand, 7 percent lower than last year.

◆ **Banana**

Banana acreage decreased 13 and 15 percent from 2007 with 1,300 total acres and 1,100 harvested acres, respectively. Utilized production was estimated at

17.4 million pounds, 32 percent below 2007. Weather for 2008 was mixed for banana production. A smaller harvest contributed to the 24 percent drop in value from the previous year to \$8.0 million in 2008.

◆ **Guava**

Processed guava production fell 19 percent from 2007 to 3.5 million pounds in 2008. Total acreage declined 61 percent to 180 acres and harvested acreage dropped 6 percent to 160 acres. Large acreage on Kauai was taken out of production, following a closure of a processing facility at the end of 2006. The value of sales fell 18 percent from 2007 to \$553 thousand in 2008.

◆ **Papaya**

The State's papaya growers devoted 2,190 acres toward papaya production, increasing 6 percent from 2007. Harvested area totaled 1,380 acres, up 5 percent from the previous year. Papaya output was slightly higher at 33.5 million pounds and the value of sales totaled \$14.4 million, 10 percent above 2007.

◆ **Tropical Specialty Fruit**

Area devoted to tropical specialty fruit totaled 1,480 acres in 2008, 1 percent above 2007. Area harvested totaled 970 acres unchanged from the previous year. Tropical specialty fruit growers produced and sold an estimated 2.1 million pounds of fruit in 2008, 10 percent lower than 2007. In 2008, longan, lychee, and persimmon had higher outputs than the previous year. Value of sales was pegged at \$4.0 million in 2008, down 11 percent from 2007.

MARKET SUPPLY: FRESH FRUITS



MARKET SUPPLY: Fresh Market Fruits, State of Hawaii, 2004-2008 ^{1 2}

Commodity	2004	2005	2006	2007	2008	Hawaii market share 2008
	----- 1,000 pounds -----					Percent
Apples: Inshipments	13,392	15,320	15,431	16,269	15,413	
Avocados: Inshipments	1,780	2,130	2,349	2,332	1,971	
Hawaii	740	800	1,020	1,160	1,000	34
Bananas: Inshipments	13,929	13,017	15,408	16,028	19,552	
Hawaii	16,500	20,900	22,000	25,600	17,400	47
Cantaloupe melons: Inshipments	6,149	7,658	7,736	7,410	6,241	
Hawaii ³						
Grapefruit: Inshipments	1,719	1,488	1,561	1,600	1,307	
Hawaii	₃	40	50	30	46	3
Grapes: Inshipments	8,360	9,831	9,506	9,584	9,149	
Honeydew melons: Inshipments	2,773	2,570	3,813	3,905	3,204	
Hawaii ³						
Lemons: Inshipments	3,915	4,196	4,154	4,035	3,501	
Hawaii	₃	54	45	33	55	2
Limes: Inshipments	1,456	1,678	1,749	2,139	1,957	
Hawaii	₃	59	121	69	76	4
Nectarines: Inshipments	2,593	2,260	2,219	2,379	2,513	
Oranges: Inshipments	13,683	15,740	14,824	10,671	12,381	
Hawaii ³						
Papayas: Inshipments ³						
Hawaii ⁴	20,400	18,755	16,740	18,650	16,960	
Pears: Inshipments	5,109	3,971	4,873	5,018	4,776	
Pineapples: Hawaii	30,900	⁵	⁵	⁵	⁵	
Tangerines: Inshipments	902	1,254	1,893	1,460	2,000	
Hawaii	₃	51	85	89	98	5
Watermelons: Inshipments	3,165	3,946	5,174	4,007	3,772	
Hawaii	10,100	11,300	10,400	13,100	⁶	
All other fruits: Inshipments	13,148	15,507	16,382	17,010	12,478	
Hawaii	4,697	5,601	7,612	7,709	⁶	
Unspecified fruits: Inshipments ⁷	8,362	7,391	9,817	11,751	10,463	
Total: Inshipments	100,435	107,957	116,889	115,598	110,678	
Hawaii	73,337	57,560	58,073	66,440	52,744	32
All	173,772	165,517	174,962	182,038	163,422	

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.

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

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

⁵ Data not available.

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

⁷ Fruit data received without commodity names specified.



TROPICAL SPECIALTY FRUITS

TROPICAL SPECIALTY FRUITS: Number of Farms, Acreage, Number of Trees, Production, Price, and Value, State of Hawaii, 2004-2008 ¹

Crop	Farms ²	Acreage		Number of trees		Utilized production ³	Farm price ^{3,4}	Value of sales
		In crop	Harvested	Total	Bearing			
	<i>Number</i>	<i>----- Acres -----</i>				<i>1,000 pounds</i>	<i>Dollars per pound</i>	<i>1,000 dollars</i>
Atemoya								
2004	25	15	10	600	500	5	1.40	7
2005	20	15	5	800	200	17	1.35	23
2006	25	10	5	500	300	13	1.31	17
2007	25	10	5	500	300	22	1.34	29
2008 ⁵								
Longan								
2004	65	210	75	8,700	3,500	121	3.41	413
2005	65	185	85	8,700	4,000	141	3.09	436
2006	75	205	115	9,600	5,400	172	3.42	588
2007	75	245	160	11,400	7,500	263	2.98	784
2008	70	260	170	11,800	7,700	310	3.20	992
Lychee								
2004	125	260	115	11,200	5,500	102	2.42	247
2005	125	310	185	9,900	5,400	117	2.66	311
2006	135	330	185	10,900	5,400	153	2.97	454
2007	175	330	190	10,900	5,500	224	2.80	627
2008	150	330	190	10,900	5,500	230	2.75	633
Mango								
2004	110	270	195	10,200	7,700	391	.92	358
2005	100	300	190	14,000	8,900	531	1.11	589
2006	120	310	210	14,000	9,500	774	1.09	844
2007	130	340	260	15,400	11,800	690	.97	669
2008	130	350	270	15,000	11,900	660	.98	647
Persimmon								
2004	20	20	15	1,400	1,100	49	1.57	77
2005	20	25	20	1,400	1,200	51	1.63	83
2006	20	25	25	1,400	1,400	86	1.57	135
2007	25	30	25	1,700	1,400	60	1.63	98
2008	25	30	25	1,700	1,400	70	1.60	112
Rambutan								
2004	75	285	185	12,500	8,300	278	2.60	723
2005	65	250	175	11,100	7,900	395	2.51	990
2006	70	305	190	13,800	8,400	132	2.82	372
2007	75	330	265	14,900	11,900	824	2.39	1,969
2008	70	290	230	13,500	10,400	450	2.40	1,080

See footnotes at end of table.

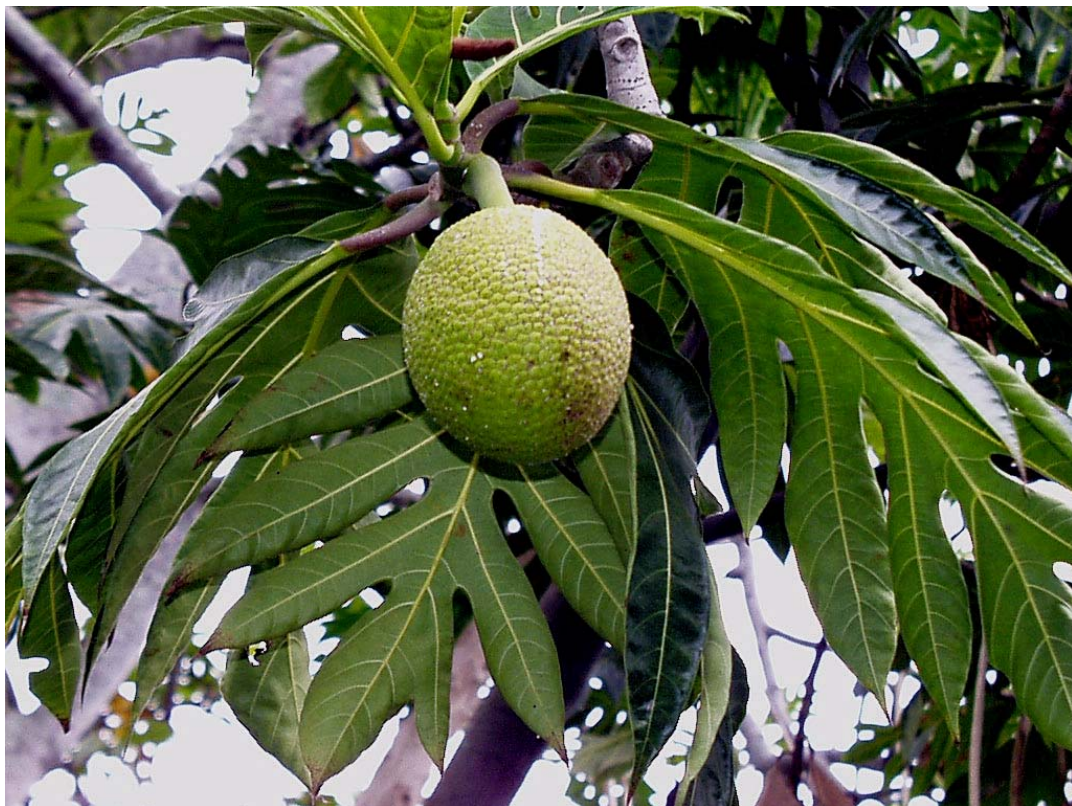
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TROPICAL SPECIALTY FRUITS: Number of farms, acreage, number of trees, production, price, and value, State of Hawaii, 2004-2008¹ -- Continued

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								
2004	--	160	45	6	6	95	--	120
2005	--	185	70	6	6	204	--	298
2006	--	195	80	6	6	100	--	215
2007	--	185	65	6	6	197	--	309
2008	--	220	85	6	6	330	--	528
Total								
2004	220	1,220	640	6	6	1,041	--	1,945
2005	265	1,270	730	6	6	1,456	--	2,730
2006	305	1,380	810	6	6	1,430	--	2,625
2007	310	1,470	970	6	6	2,280	--	4,485
2008	320	1,480	970	6	6	2,050	--	3,992

-- = 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 Beginning 2004, data series discontinued.





PINEAPPLES

PINEAPPLES: Number of Farms, Acreage, Production, Disposition, Price, and Value, State of Hawaii, 2004-2008

Year	Farms ¹	Acreage used for crop	Production (fresh weight)	Disposition		Farm price		Value of production (fresh weight)
				Processed (fresh weight)	Fresh market	Processed ²	Fresh market ³	
	<i>Number</i>	<i>1,000 acres</i>	<i>1,000 tons</i>	<i>1,000 tons</i>		<i>Dollars per ton</i>		<i>1,000 dollars</i>
2004	30	13.0	220	116	104	148	634	83,104
2005	30	14.0	212	106	106	148	600	79,288
2006	30	12.6	185	89	96	148	630	73,652
2007	40	⁴	⁴	⁴	⁴	⁴	⁴	⁴
2008	40	4	4	4	4	4	4	4

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, 2004-2008

Year	Fresh market sales ¹		Processor value of canned fruit and juice production ³	Total value: Fresh market and processed ⁴
	Quantity	Value ²		
	<i>1,000 tons</i>	<i>Million dollars</i>		
2004	104	65.9	57.3	123.2
2005	106	63.6	49.8	113.4
2006	96	60.5	⁴	⁴
2007	⁵	⁵	⁴	⁴
2008	5	5	4	4

¹ Includes "fresh cut".

² Prior to 2005, value FAS shipping point for outshipments, delivered wholesalers local sales.

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

⁴ Data not available.

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

PINEAPPLES: Outshipments of Fresh Pineapples, State of Hawaii, 2004-2008

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	<i>1,000 Pounds</i>												
2004	14,248	18,579	14,840	11,483	13,574	12,936	20,418	10,917	12,045	17,518	13,616	16,889	177,063
2005 ¹													
2006 ¹													
2007 ¹													
2008 ¹													

¹ Data not available.

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



AVOCADOS: Number of Farms, Acreage, Yield, Production, Price, and Value, State of Hawaii, 2004-2008

Year	Farms	Acreage ¹		Yield per acre ²	Production	Farm price	Value of sales
		In crop	Bearing				
	<i>Number</i>	<i>Acres</i>		<i>1,000 pounds</i>		<i>Cents per pound</i>	<i>1,000 dollars</i>
2004	150	380	270	2.7	740	63.0	466
2005	175	390	300	2.7	800	66.0	528
2006	³ 225	380	330	3.1	1,020	68.0	694
2007	250	390	350	3.3	1,160	68.0	789
2008	250	400	330	3.0	1,000	73.0	730

¹ At end of year.

² Production divided by bearing acreage.

³ Revised.

BANANAS: Number of Farms, Acreage, Yield, Production, Price, and Value, by County, 2004-2008

Year	Farms	Acreage		Yield per acre ²	Utilized production	Farm price	Value of sales
		In crop ¹	Harvested				
	<i>Number</i>	<i>Acres</i>		<i>1,000 pounds</i>		<i>Cents per pound</i>	<i>1,000 dollars</i>
State							
2004	210	1,360	1,000	16.5	16,500	49.0	8,085
2005	190	1,145	980	21.3	20,900	43.9	9,175
2006	³ 230	1,300	1,100	20.0	22,000	49.0	10,780
2007	240	1,500	1,300	19.7	25,600	41.0	10,496
2008	230	1,300	1,100	15.8	17,400	46.0	8,004

¹ At end of year.

² Utilized production divided by acreage harvested.

³ Revised.



PAPAYAS: Number of Farms, Acreage, Yield, Utilization, Price, and Value, by County, 2004-2008

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											
2004	207	2,105	⁵ 1,265	⁵ 28.3	35,800	34,100	1,700	36.1	3.0	34.5	12,361
2005	207	2,395	1,480	22.2	32,900	30,700	2,200	36.4	3.0	34.2	11,241
2006	170	2,095	1,530	18.8	28,700	26,600	2,100	41.3	3.0	38.5	11,049
2007	178	2,065	1,310	25.5	33,400	31,200	2,200	41.7	3.8	39.2	13,094
2008	177	2,190	1,380	24.3	33,500	31,500	2,000	45.5	3.0	43.0	14,393
County:											
Hawaii											
2004	141	1,910	⁵ 1,110	⁵ 28.6	31,695	29,995	⁶ 1,700	35.2		33.5	10,611
2005	154	2,170	1,315	22.1	29,110	26,910	⁶ 2,200	35.1		32.7	9,521
2006	125	1,905	1,395	18.8	26,190	24,090	⁶ 2,100	40.0		37.0	9,692
2007	125	1,870	1,185	25.8	30,540	28,340	⁶ 2,200	40.6		38.0	11,592
2008	120	1,990	1,245	24.5	30,500	28,500	⁶ 2,000	44.4		41.7	12,724
Honolulu											
2004	27	95	90	29.2	2,630	2,630	⁶	44.0		44.0	1,157
2005	30	130	105	21.4	2,250	2,250	⁶	44.2		44.2	995
2006	⁷ 45	⁷ 190	⁷ 135	⁷ 18.6	⁷ 2,510	⁷ 2,510	⁶	⁷ 54.1		⁷ 54.1	⁷ 1,357
2007	⁷ 53	⁷ 195	⁷ 125	⁷ 22.9	⁷ 2,860	⁷ 2,860	⁶	⁷ 52.5		⁷ 52.5	⁷ 1,502
2008	⁷ 57	⁷ 200	⁷ 135	22.2	⁷ 3,000	⁷ 3,000	⁶	⁷ 55.7		⁷ 55.7	⁷ 1,669
Kauai											
2004	19	40	30	18.0	540	540	⁶	⁸ 40.2		⁸ 40.2	⁸ 593
2005	11	35	25	18.4	460	460	⁶	⁸ 47.1		⁸ 47.1	⁸ 725
2006	⁷	⁷	⁷	⁷	⁷	⁷	⁶	⁷		⁷	⁷
2007	⁷	⁷	⁷	⁷	⁷	⁷	⁶	⁷		⁷	⁷
2008	⁷	⁷	⁷	⁷	⁷	⁷	⁶	⁷		⁷	⁷
Maui											
2004	20	60	35	26.7	935	935	⁶	8		8	8
2005	12	60	35	30.9	1,080	1,080	⁶	8		8	8
2006	⁷	⁷	⁷	⁷	⁷	⁷	⁶	⁷		⁷	⁷
2007	⁷	⁷	⁷	⁷	⁷	⁷	⁶	⁷		⁷	⁷
2008	⁷	⁷	⁷	⁷	⁷	⁷	⁶	⁷		⁷	⁷

¹ Average of monthly estimates.

² Utilized production divided by acreage harvested.

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

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

⁵ Revised.

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

⁷ Maui and Kauai combined with Honolulu to avoid disclosure of individual operations.

⁸ Maui combined with Kauai to avoid disclosure of individual operations.



PAPAYAS: Acreage, Utilization, Outshipments, and Price, State of Hawaii, 2004-2008

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres ¹													
2004	1,340	1,345	1,160	1,160	1,160	1,065	1,070	1,385	1,370	1,365	1,360	1,400	1,265
2005	1,410	1,410	1,435	1,440	1,440	1,580	1,570	1,435	1,445	1,415	1,405	1,780	1,480
2006	1,790	1,795	1,785	1,785	1,760	1,510	1,510	1,330	1,325	1,320	1,315	1,135	1,530
2007	1,400	1,160	1,295	1,260	1,315	1,200	1,190	1,370	1,375	1,535	1,365	1,255	1,310
2008	1,430	1,430	1,430	1,310	1,315	1,315	1,350	1,350	1,320	1,405	1,450	1,460	1,380
Utilization (fresh and processed) – 1,000 pounds													
2004	3,690	2,870	2,930	2,725	2,670	3,135	2,915	2,715	2,845	3,425	2,850	3,030	35,800
2005	2,810	2,645	2,875	2,815	3,000	2,740	2,945	2,540	2,810	2,935	2,135	2,650	32,900
2006	3,145	2,370	2,340	1,880	2,020	2,380	1,905	2,340	2,855	2,390	2,665	2,410	28,700
2007	2,530	2,235	2,605	2,750	2,610	2,260	2,820	3,020	2,885	3,380	3,220	3,085	33,400
2008	3,280	2,875	2,780	2,820	3,010	2,660	2,215	2,630	2,525	3,100	2,755	2,850	33,500
Total fresh papaya utilization – 1,000 pounds													
2004	3,560	2,775	2,815	2,630	2,460	2,920	2,750	2,630	2,725	3,225	2,650	2,960	34,100
2005	2,580	2,425	2,715	2,700	2,740	2,595	2,745	2,360	2,665	2,605	2,020	2,550	30,700
2006	2,920	2,240	2,210	1,725	1,785	2,095	1,705	2,215	2,615	2,185	2,605	2,300	26,600
2007	2,465	2,015	2,345	2,445	2,365	2,170	2,590	2,815	2,765	3,340	3,075	2,810	31,200
2008	2,880	2,645	2,620	2,615	2,785	2,350	2,095	2,380	2,460	3,075	2,745	2,850	31,500
Intrastate fresh papaya utilization – 1,000 pounds													
2004	2,130	1,595	1,710	1,585	1,475	1,725	1,640	1,525	1,570	2,045	1,560	1,840	20,400
2005	1,545	1,510	1,780	1,680	1,525	1,590	1,625	1,455	1,575	1,630	1,295	1,545	18,755
2006	1,730	1,450	1,315	1,065	1,120	1,285	1,050	1,400	1,730	1,375	1,705	1,515	16,740
2007	1,615	1,310	1,510	1,570	1,440	1,380	1,580	1,630	1,655	1,750	1,610	1,600	18,650
2008	1,680	1,410	1,415	1,440	1,460	1,230	1,150	1,305	1,290	1,645	1,505	1,430	16,960
Outshipments of fresh papaya – 1,000 pounds													
2004	1,430	1,180	1,105	1,045	985	1,195	1,110	1,105	1,155	1,180	1,090	1,120	13,700
2005	1,035	915	935	1,020	1,215	1,005	1,120	905	1,090	975	725	1,005	11,945
2006	1,190	790	895	660	665	810	655	815	885	810	900	785	9,860
2007	850	705	835	875	925	790	1,010	1,185	1,110	1,590	1,465	1,210	12,550
2008	1,200	1,235	1,205	1,175	1,325	1,120	945	1,075	1,170	1,430	1,240	1,420	14,540
Farm price for fresh market sales (to all markets) – cents per pound													
2004	31.0	31.2	37.4	40.0	41.0	39.5	37.2	36.6	37.2	35.8	34.3	33.4	36.1
2005	33.0	37.4	40.0	37.6	37.0	37.2	36.2	36.5	34.3	33.2	37.1	36.9	36.4
2006	34.1	36.5	42.1	46.3	51.5	47.1	47.0	48.1	38.6	38.1	38.3	36.4	41.3
2007	39.8	41.9	45.0	46.1	46.6	49.4	45.8	38.1	37.1	37.8	38.3	39.7	41.7
2008	43.0	44.8	47.4	47.8	49.7	49.2	50.3	49.4	47.4	42.1	39.1	39.0	45.5

¹ Total is average of monthly data.



**GUAVAS: Number of Farms, Acreage, Farm Production, Price, and Value,
by County, 2004-2008**

Year	Farm production					
	Farms	Acreage		Utilized production	Farm price ¹	Value of sales
		In crop	Harvested			
	<i>Number</i>	<i>----- Acres -----</i>		<i>1,000 pounds</i>	<i>Cents per pound</i>	<i>1,000 dollars</i>
State						
2004	75	610	525	8,100	14.4	1,166
2005	55	665	620	8,100	13.9	1,126
2006	50	575	365	7,400	14.2	1,051
2007	70	465	170	4,300	15.7	675
2008	60	180	160	3,500	15.8	553
County:						
Hawaii						
2004	65	160	85	2	2	2
2005	45	215	175	2	2	2
2006	40	125	100	2	2	2
2007	45	155	140	2	2	2
2008	45	160	145	2	2	2
Honolulu/Kauai/Maui³						
2004	10	450	440	2	2	2
2005	10	450	445	2	2	2
2006	10	450	265	2	2	2
2007	25	310	30	2	2	2
2008	15	20	15	2	2	2

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

GUAVAS: Farm production, State of Hawaii, 2004-2008

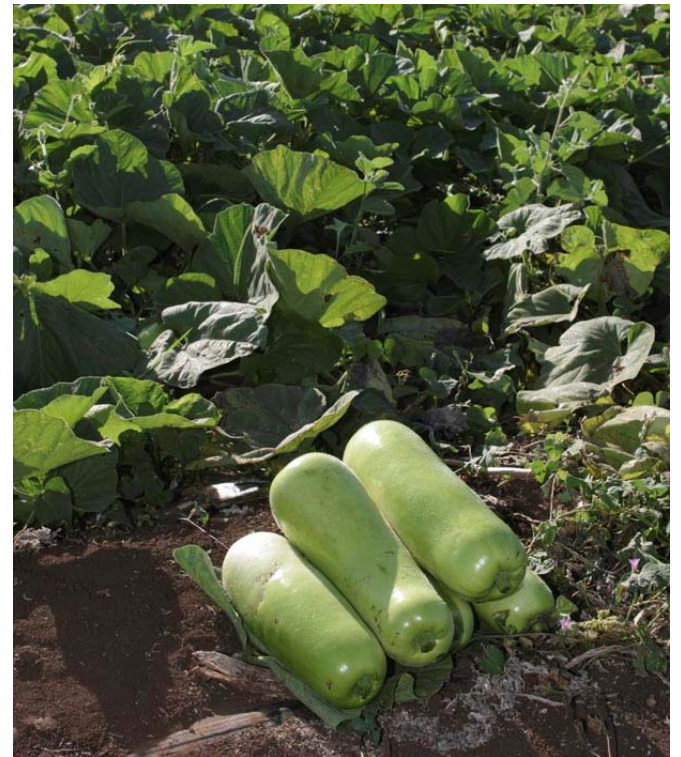
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total ¹
	<i>1,000 pounds</i>												
2004	211	310	359	398	405	271	477	1,457	1,985	1,111	550	566	8,100
2005	246	233	197	256	371	498	665	756	1,318	1,746	900	912	8,100
2006	202	164	162	188	227	429	625	802	1,272	1,570	934	825	7,400
2007	²	²	²	²	²	²	²	²	²	²	²	²	4,300
2008	²	²	²	²	²	²	²	²	²	²	²	²	3,500

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

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



at a record-high production of 8.1 million pounds, up 14 percent from 2007, the previous high. Head cabbage with 9.4 million pounds, was 10 percent below last year's production. Chinese cabbage was down 11 percent to 5.6 million pounds from a year ago. Cucumbers and sweet corn production for 2008 decreased 4 and 8 percent from 2007 to 4.8 million pounds and 2.2 million pounds, respectively.



◆ Vegetables and Melons

Cumulative information for vegetables and melons were modified for the 2008 year because of confidentiality concerns. The following comments and data comparison will be only for the 19 selected crops published on the inside pages.

The farm value for 19 of Hawaii's selected vegetables and melons is estimated at \$23.9 million in 2008, up 5 percent from the 2007 level for the same 19 crops. Cumulative production for these 19 selected vegetables and melons was 41.5 million pounds, down 4 percent from 2007.

Drought conditions affected the State during 2008, as every county had at least one location with some level of voluntary or mandatory water use conservation measure in place. Despite brief interludes of heavy rainfall, the drought adversely affected the agriculture sector. The ongoing drought prompted the U.S. Department of Agriculture to declare the State of Hawaii a primary disaster area on August 1 for agriculture interest.

The top five volume-producing published crops during 2008 were unchanged from a year earlier. Sweet potatoes were estimated

◆ Taro

Hawaii's taro production for 2008 is estimated at 4.3 million pounds, 8 percent above 2007. The average farm price for all taro rose 3.0 cents a pound from 2007 to 62.0 cents in 2008. More output and higher prices contributed to the 13 percent increase in value of sales from last year to \$2.7 million in 2008. Kauai county remained the State's largest producer of taro with 3.4 million pounds of taro or 80 percent of the State's total.



MARKET SUPPLY: FRESH VEGETABLES

MARKET SUPPLY: Fresh Market Vegetables, State of Hawaii, 2004-2008 ¹

Commodity		2004	2005	2006	2007	2008	Hawaii market share 2008
		----- 1,000 pounds -----					Percent
Beans, snap:	Inshipments	531	619	592	460	540	
	Hawaii	900	700	600	700	700	56
Bittermelon:	Inshipments	66	149	108	123	74	
	Hawaii	250	250	180	150	140	65
Broccoli:	Inshipments	5,478	5,794	5,830	5,535	5,205	
	Hawaii	500	600	330	390	360	6
Burdock:	Inshipments Hawaii ²	82	94	79	73	71	
Cabbage, Chinese:	Inshipments	1,528	1,027	949	625	818	
	Hawaii	⁴ 5,300	⁴ 5,700	⁴ 6,100	6,300	5,600	87
Cabbage, head:	Inshipments	4,022	3,054	2,930	2,540	2,329	
	Hawaii	9,000	9,800	10,100	10,400	9,400	80
Cabbage, mustard:	Inshipments	207	237	262	223	282	
	Hawaii	1,400	1,400	1,400	1,400	1,300	82
Carrots:	Inshipments Hawaii ²	11,400	12,607	12,767	11,667	11,144	
Cauliflower:	Inshipments Hawaii ²	1,340	1,076	1,167	1,378	1,350	
Celery:	Inshipments	5,065	4,931	5,497	5,192	5,133	
	Hawaii	900	830	670	510	360	7
Corn, sweet:	Inshipments	1,390	1,169	712	806	611	
	Hawaii	1,800	1,700	1,800	2,400	2,200	78
Cucumbers:	Inshipments	920	1,543	1,118	1,795	1,383	
	Hawaii	5,900	6,000	5,400	5,000	4,800	78
Daikon:	Inshipments	3	6	6	2	6	
	Hawaii ³	²	²	²	²	²	
Dasheen:	Inshipments Hawaii ²	746	659	680	887	716	
Eggplant:	Inshipments	675	986	821	970	734	
	Hawaii	1,050	1,200	1,000	760	900	55
Ginger root:	Inshipments	591	224	105	394	928	
	Hawaii	6,000	5,100	4,300	2,800	1,800	66
Lettuce ⁵ :	Inshipments	9,116	8,065	8,232	8,824	8,089	
	Hawaii	1,300	1,100	1,200	1,000	1,000	11
Lotus root:	Inshipments Hawaii ²	53	58	70	51	73	
Onions, dry:	Inshipments	17,982	21,210	20,562	19,595	18,654	
	Hawaii	1,600	2,300	1,400	1,400	1,400	7

See footnotes at end of table.

Continued

MARKET SUPPLY: FRESH VEGETABLES



MARKET SUPPLY: Fresh Market Vegetables, State of Hawaii, 2004-2008¹ -- Continued

Commodity	2004	2005	2006	2007	2008	Hawaii market share 2008	
	----- 1,000 pounds -----					Percent	
Onions, green:	Inshipments	896	590	777	776	589	
	Hawaii	1,600	1,700	1,500	1,400	1,600	73
Parsley, American:	Inshipments	167	178	204	231	271	
	Hawaii	280	250	250	140	100	27
Peas, Chinese:	Inshipments	257	260	256	287	209	
	Hawaii ²						
Peppers, green:	Inshipments	2,489	2,997	3,402	4,864	4,790	
	Hawaii	3,200	3,000	2,800	1,800	6	
Potatoes:	Inshipments ⁴	34,629	39,032	39,191	24,392	22,291	
	Hawaii ²						
Potatoes, sweet:	Inshipments	1,357	1,337	1,530	1,715	1,616	
	Hawaii	4,600	6,300	6,000	7,100	8,100	83
Pumpkins:	Inshipments	833	363	203	419	903	
	Hawaii	250	80	290	470	90	9
Radish:	Inshipments	11	9	5	9	0	
	Hawaii ²						
Romaine:	Inshipments	9,336	10,465	10,355	10,937	9,334	
	Hawaii	1,500	1,700	1,300	1,200	1,000	10
Squash, Italian:	Inshipments	1,130	1,259	1,722	1,845	1,738	
	Hawaii	1,700	1,500	1,100	1,200	1,480	46
Squash, Oriental:	Inshipments	55	139	492	600	640	
	Hawaii	650	450	400	500	350	35
Taro:	Inshipments	1,002	705	962	305	232	
	Hawaii ³	100	100	100	100	100	30
Tomatoes:	Inshipments	3,538	5,624	4,877	4,265	4,157	
	Hawaii	16,800	14,200	14,700	14,300	6	
Watercress:	Inshipments	45	41	60	13	4	
	Hawaii	850	700	750	770	750	99
All other vegetables:	Inshipments	28,974	30,639	32,624	33,204	31,967	
	Hawaii	20,020	18,300	21,100	6	6	
Unspecified vegetables:	Inshipments ⁷	12,902	11,540	14,226	15,648	13,376	
Total:	Inshipments	158,816	168,686	159,147	160,650	150,257	
	Hawaii	87,450	84,960	84,770	83,650	77,485	34
	All	246,266	253,646	243,917	244,300	227,742	

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

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

³ Fresh market only.

⁴ For processing and fresh market.

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

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

⁷ Vegetable data received without commodity names specified.



SNAP BEANS

SNAP BEANS: Acreage, Yield, Production, Price, and Value, by County, 2004-2008

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2004	170	5.3	900	114.0	1,026
2005	130	5.4	700	109.0	763
2006	120	5.0	600	105.0	630
2007	130	5.4	700	103.0	721
2008	120	5.8	700	107.0	749
County:					
Hawaii/Kauai ²					
2004	30	4.7	140	143.0	200
2005	10	7.0	70	123.5	86
2006	10	7.5	75	127.0	95
2007	10	6.0	60	147.0	88
2008	10	7.0	70	127.0	89
Honolulu					
2004	95	5.6	530	115.0	610
2005	75	6.1	460	111.0	511
2006	60	5.0	300	116.0	348
2007	70	5.4	380	122.0	464
2008	60	5.0	300	110.0	330
Maui					
2004	45	5.1	230	94.0	216
2005	45	3.8	170	97.5	166
2006	50	4.5	225	83.0	187
2007	50	5.2	260	65.0	169
2008	50	6.6	330	100.0	330

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

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

SNAP BEANS: Acreage, Production, and Price, State of Hawaii, 2004-2008

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres ¹													
2004	19	21	14	21	13	11	17	16	11	16	19	11	170
2005	12	7	9	9	11	10	15	11	15	10	12	11	130
2006	16	7	10	10	5	8	13	8	8	10	12	13	120
2007	14	10	13	13	11	9	9	9	13	9	10	10	130
2008	8	11	12	11	11	8	7	11	10	10	11	10	120
Production – 1,000 pounds													
2004	68	62	41	80	66	84	117	70	100	63	73	76	900
2005	30	39	57	57	74	67	109	61	85	41	48	32	700
2006	87	58	45	46	16	63	74	50	41	38	45	37	600
2007	48	59	52	66	51	71	58	54	77	56	56	52	700
2008	44	47	80	62	81	62	61	72	52	55	42	42	700
Farm price – cents per pound													
2004	117.2	118.3	117.6	111.6	106.9	92.1	100.1	109.8	134.2	120.5	122.8	123.2	114.0
2005	93.6	135.5	126.3	117.1	116.8	116.4	100.8	107.6	95.4	102.2	98.6	102.4	109.0
2006	124.9	118.0	122.5	123.5	135.7	102.6	104.2	92.3	70.1	75.0	90.7	90.3	105.0
2007	85.4	110.8	100.1	99.4	98.1	96.4	94.3	96.7	114.7	115.2	116.9	101.9	103.0
2008	93.4	104.1	92.8	115.2	113.2	107.2	107.8	100.9	94.6	99.2	124.4	144.2	107.0

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



CHINESE CABBAGE: Acreage, Yield, Production, Price, and Value, by County, 2004-2008

Year	Harvested acres	Yield per acre ----- 1,000 pounds -----	Production	Farm price Cents per pound	Value of sales 1,000 dollars
State ¹					
2004	260	20.4	5,300	31.0	1,643
2005	260	21.9	5,700	30.0	1,710
2006	250	24.4	6,100	29.0	1,769
2007	270	23.3	6,300	30.0	1,890
2008	220	25.5	5,600	35.0	1,960
County:					
Hawaii					
2004	190	23.4	4,450	30.2	1,344
2005	180	24.4	4,400	29.3	1,289
2006	160	26.8	4,280	28.0	1,198
2007	180	25.3	4,560	30.0	1,368
2008	140	29.7	4,160	36.0	1,498
Honolulu/Kauai/Maui ²					
2004	70	12.1	850	35.2	299
2005	80	16.3	1,300	32.4	421
2006	90	20.2	1,820	31.4	571
2007	90	19.3	1,740	30.0	522
2008	80	18.0	1,440	32.1	462

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

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

CHINESE CABBAGE: Acreage, Production, and Price, State of Hawaii, 2004-2008

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2004	18	24	20	25	21	20	19	24	23	23	21	22	260
2005	24	29	27	25	29	16	17	18	20	18	18	19	260
2006	20	24	29	19	17	27	21	18	14	20	21	20	250
2007	23	24	26	27	22	25	22	21	20	20	22	18	270
2008	19	21	20	24	21	20	14	14	13	14	22	18	220
Processing and fresh market:													
Production – 1,000 pounds													
2004	440	428	465	432	492	431	481	388	367	496	406	474	5,300
2005	508	585	503	573	593	386	351	386	363	418	482	552	5,700
2006	578	548	558	561	657	575	426	389	413	416	459	520	6,100
2007	514	595	658	536	536	600	530	448	458	521	415	489	6,300
2008	381	637	604	463	546	484	380	409	352	521	398	425	5,600
Farm price – cents per pound													
2004	31.9	30.7	29.3	30.1	27.3	29.9	27.4	30.4	33.4	34.8	34.1	33.8	31.0
2005	33.4	33.6	33.1	20.8	24.8	26.5	32.9	32.1	33.5	32.4	31.8	29.1	30.0
2006	28.8	27.2	26.4	26.4	25.1	27.6	28.8	31.3	35.8	33.1	33.0	29.6	29.0
2007	29.5	32.8	30.1	26.1	24.5	28.3	28.9	32.9	32.4	30.4	32.3	33.6	30.0
2008	31.3	33.9	31.1	25.3	28.8	34.6	34.5	49.1	42.0	41.1	37.2	36.0	35.0



HEAD CABBAGE

HEAD CABBAGE: Acreage, Yield, Production, Price, and Value, by County, 2004-2008

Year	Harvested acres	Yield per acre ----- 1,000 pounds -----	Production	Farm price Cents per pound	Value of sales 1,000 dollars
State ¹					
2004	360	25.0	9,000	30.0	2,700
2005	430	22.8	9,800	28.0	2,744
2006	450	22.4	10,100	27.0	2,727
2007	440	23.6	10,400	29.0	3,016
2008	410	22.9	9,400	30.0	2,820
County:					
Hawaii/Honolulu/Kauai ²					
2004	185	22.7	4,200	29.1	1,222
2005	230	23.0	5,300	28.5	1,511
2006	310	22.6	7,000	27.4	1,918
2007	320	22.5	7,200	29.0	2,088
2008	300	20.3	6,100	30.0	1,830
Maui					
2004	175	27.4	4,800	30.8	1,478
2005	200	22.5	4,500	27.4	1,233
2006	140	22.1	3,100	26.1	809
2007	120	26.7	3,200	29.0	928
2008	110	30.0	3,300	30.0	990

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

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

HEAD CABBAGE: Acreage, Production, and Price, State of Hawaii, 2004-2008

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2004	22	22	28	36	39	32	26	25	27	26	40	37	360
2005	29	41	43	50	46	29	24	25	27	22	46	48	430
2006	49	45	47	48	39	39	47	18	21	25	30	42	450
2007	42	46	42	43	44	42	39	30	21	21	30	40	440
2008	37	36	45	39	50	38	34	21	20	19	31	40	410
Production – 1,000 pounds													
2004	595	556	589	970	973	1,008	871	595	591	633	741	878	9,000
2005	656	665	1,076	1,163	1,011	1,072	646	538	481	514	773	1,205	9,800
2006	928	1,000	1,239	1,109	935	912	956	464	451	499	754	853	10,100
2007	782	932	1,374	985	1,037	1,079	968	744	468	602	734	695	10,400
2008	681	728	1,509	989	1,004	764	737	530	515	530	637	776	9,400
Farm price – cents per pound													
2004	38.3	34.4	29.8	27.1	27.3	26.4	25.8	28.7	32.3	34.0	32.2	30.6	30.0
2005	27.6	27.1	26.8	25.9	25.6	26.4	27.0	28.9	29.3	34.2	31.9	29.6	28.0
2006	27.6	23.8	21.9	22.3	25.4	25.4	26.4	32.6	36.6	32.0	33.8	30.2	27.0
2007	29.7	36.2	33.8	27.1	25.3	20.5	24.0	24.0	30.4	33.9	34.8	31.5	29.0
2008	30.8	36.0	31.3	27.0	26.1	25.6	27.5	30.7	30.1	28.6	34.6	33.5	30.0

CELERY: Acreage, Yield, Production, Price, and Value, by County, 2004-2008

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2004	30	30.0	900	34.0	306
2005	25	33.2	830	37.0	307
2006	25	26.8	670	37.0	248
2007	25	20.4	510	44.0	224
2008	20	18.0	360	38.0	137
County:					
Hawaii					
2004	20	30.0	600	36.2	217
2005 ²					
2006 ²					
2007 ²					
2008 ²					
Maui					
2004	10	30.0	300	29.6	89
2005 ²					
2006 ²					
2007 ²					
2008 ²					

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

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



SWEET CORN

SWEET CORN: Acreage, Yield, Production, Price, and Value, by County, 2004-2008

Year	Harvested acres	Yield per acre ----- 1,000 pounds -----	Production	Farm price Cents per pound	Value of sales 1,000 dollars
State ¹					
2004	540	3.3	1,800	58.0	1,044
2005	410	4.1	1,700	55.0	935
2006	350	5.1	1,800	66.0	1,188
2007	450	5.3	2,400	62.0	1,488
2008	400	5.5	2,200	56.0	1,232
County:					
Hawaii/Kauai ²					
2004	260	2.6	670	44.5	298
2005 ³					
2006 ³					
2007 ³					
2008 ³					
Honolulu/Maui ⁴					
2004	280	4.0	1,130	66.0	746
2005 ³					
2006 ³					
2007 ³					
2008 ³					

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

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

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

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

SWEET CORN: Acreage, Production, and Price, State of Hawaii, 2004-2008

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2004	42	43	52	51	61	45	45	43	37	32	49	40	540
2005	26	18	24	32	30	39	41	48	39	48	38	27	410
2006	17	21	23	20	19	35	26	42	40	29	44	34	350
2007	24	25	28	35	51	58	28	48	25	37	56	35	450
2008	24	10	31	28	41	31	35	37	28	41	57	37	400
Production – 1,000 pounds													
2004	110	97	112	155	203	179	161	139	146	120	199	179	1,800
2005	60	63	71	114	137	249	219	241	149	155	122	120	1,700
2006	86	79	61	123	85	189	147	248	215	160	209	198	1,800
2007	103	119	197	221	331	287	171	238	116	202	238	177	2,400
2008	117	77	144	222	298	225	235	234	132	171	183	162	2,200
Farm price – cents per pound													
2004	48.9	47.4	52.2	53.5	45.5	56.1	56.4	60.6	79.4	69.4	64.7	59.8	58.0
2005	58.1	55.3	54.8	53.3	59.0	54.0	53.2	51.0	57.9	48.3	62.5	61.2	55.0
2006	39.5	60.2	133.6	61.5	63.7	76.8	68.4	73.2	59.2	56.1	55.8	67.5	66.0
2007	67.8	70.7	71.9	65.0	57.3	64.7	66.3	61.6	67.9	57.7	54.5	49.6	62.0
2008	50.3	55.9	51.2	57.6	55.1	58.6	57.5	57.1	62.8	57.7	55.6	49.2	56.0



CUCUMBERS: Acreage, Yield, Production, Price, and Value, by County, 2004-2008

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2004	400	14.8	5,900	53.0	3,127
2005	440	13.6	6,000	46.0	2,760
2006	330	16.4	5,400	50.0	2,700
2007	310	16.1	5,000	50.0	2,500
2008	310	15.5	4,800	57.0	2,736
County:					
Hawaii/Kauai ²					
2004	20	17.5	350	56.8	199
2005	15	14.7	220	53.1	117
2006	10	22.0	220	68.7	151
2007	10	14.0	140	82.5	116
2008	15	9.3	140	85.0	119
Honolulu					
2004	195	11.5	2,250	55.0	1,238
2005	230	13.0	3,000	45.1	1,353
2006	130	12.2	1,580	49.0	774
2007	110	16.4	1,800	49.0	882
2008	95	18.5	1,760	61.0	1,074
Maui					
2004	185	17.8	3,300	51.2	1,690
2005	195	14.3	2,780	46.4	1,290
2006	190	18.9	3,600	49.3	1,775
2007	190	16.1	3,060	49.1	1,502
2008	200	14.5	2,900	53.2	1,543

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

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

CUCUMBERS: Acreage, Production, and Price, State of Hawaii, 2004-2008

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres ¹													
2004	34	32	31	31	31	33	32	32	35	35	37	37	400
2005	35	29	36	35	36	35	37	37	52	38	38	34	440
2006	26	25	23	20	25	29	31	25	29	27	25	25	330
2007	29	27	23	24	23	26	28	26	27	26	26	25	310
2008	23	21	25	27	27	27	27	27	27	27	27	25	310
Production – 1,000 pounds													
2004	348	291	396	405	538	701	656	659	552	525	407	422	5,900
2005	198	289	376	473	697	657	682	607	562	557	523	379	6,000
2006	385	461	330	377	458	514	553	435	588	468	369	462	5,400
2007	430	345	358	435	431	499	423	436	447	490	384	322	5,000
2008	382	351	396	413	427	493	317	462	460	409	362	328	4,800
Farm price – cents per pound													
2004	56.3	60.9	64.0	55.7	44.9	44.1	44.4	49.1	54.9	58.2	62.0	58.5	53.0
2005	56.3	65.1	52.7	59.1	41.5	42.0	38.1	39.2	43.0	46.2	45.3	48.8	46.0
2006	50.7	52.0	59.2	59.9	45.2	37.4	42.0	48.6	50.4	50.1	56.8	56.3	50.0
2007	47.3	57.4	60.5	44.9	45.0	43.1	47.2	42.1	48.7	48.8	49.1	77.6	50.0
2008	60.4	57.1	59.9	52.4	49.6	52.8	58.1	52.4	54.9	61.6	65.5	64.6	57.0

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



DAIKON: Acreage, Yield, Production, Price, and Value, by County, 2004-2008

Year	Harvested acres	Yield per acre ----- 1,000 pounds -----	Production	Farm price Cents per pound	Value of sales 1,000 dollars
State ¹					
2004	200	8.5	1,700	32.0	544
2005 ²					
2006 ²					
2007 ²					
2008 ²					
County:					
Hawaii					
2004	170	7.6	1,300	30.0	390
2005 ²					
2006 ²					
2007 ²					
2008 ²					
Honolulu/Kauai/Maui ³					
2004	30	13.3	400	38.5	154
2005 ²					
2006 ²					
2007 ²					
2008 ²					

¹ Sum of county estimates may not add to State total due to rounding.
² Data not shown to avoid disclosure of individual operations.
³ Kauai and Maui combined with Honolulu to avoid disclosure of individual operations.





EGGPLANT: Acreage, Yield, Production, Price, and Value, by County, 2004-2008

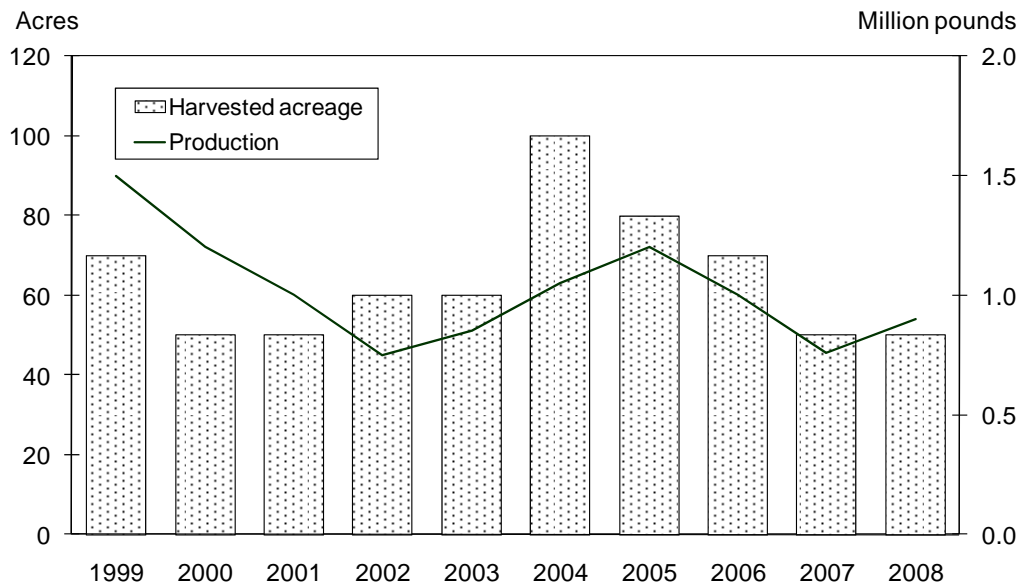
Year	Harvested acres	Yield per acre ----- 1,000 pounds -----	Production	Farm price Cents per pound	Value of sales 1,000 dollars
State ¹					
2004	100	10.5	1,050	77.0	809
2005	80	14.6	1,200	81.0	972
2006	70	14.3	1,000	84.0	840
2007	50	15.2	760	92.0	699
2008	50	18.0	900	101.0	909
County:					
Hawaii/Kauai/Maui ²					
2004	15	12.7	190	100.0	190
2005	10	17.0	170	74.7	127
2006	10	16.0	160	94.4	151
2007	10	12.0	120	102.5	123
2008 ³					
Honolulu					
2004	85	10.1	860	72.0	619
2005	70	14.7	1,030	82.0	845
2006	60	14.0	840	82.0	689
2007	40	16.0	640	90.0	576
2008 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, 1999-2008





LETTUCES

LETTUCES (HEAD, SEMI-HEAD): Acreage, Yield, Production, Price, and Value, by County, 2004-2008

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2004	110	11.8	1,300	61.0	793
2005	110	10.0	1,100	68.0	748
2006	120	10.0	1,200	70.0	840
2007	100	10.0	1,000	71.0	710
2008	90	11.1	1,000	75.0	750
County:					
Hawaii					
2004	60	12.7	760	54.0	410
2005	65	10.8	700	60.2	421
2006	60	12.8	770	60.0	462
2007	45	14.0	630	59.9	377
2008	40	14.8	590	61.0	360
Honolulu/Kauai/Maui ²					
2004	50	10.8	540	70.9	383
2005	45	8.9	400	81.7	327
2006	60	7.2	430	87.8	378
2007	55	6.7	370	89.9	333
2008	50	8.2	410	95.1	390

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

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

LETTUCES (HEAD, SEMI-HEAD): Acreage, Production, and Price, State of Hawaii, 2004-2008

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2004	8	11	7	8	9	9	10	10	9	9	10	10	110
2005	8	9	8	11	10	9	8	8	9	9	9	12	110
2006	9	12	9	11	9	10	9	10	12	12	8	9	120
2007	8	8	9	9	9	9	9	8	8	8	8	7	100
2008	9	7	9	6	7	5	8	8	8	8	8	7	90
Production – 1,000 pounds													
2004	73	83	94	93	117	134	129	125	109	131	107	105	1,300
2005	73	74	110	113	103	90	92	83	83	92	98	89	1,100
2006	114	105	87	94	106	119	105	103	106	105	74	82	1,200
2007	78	82	99	100	98	96	91	77	68	84	76	51	1,000
2008	68	83	94	93	89	91	90	83	79	79	77	74	1,000
Farm price – cents per pound													
2004	60.8	62.1	57.9	59.9	61.1	60.2	59.9	60.8	62.2	61.1	60.9	65.6	61.0
2005	64.0	65.3	68.1	66.8	67.6	66.7	77.2	65.3	66.1	74.1	67.1	66.7	68.0
2006	70.0	72.9	65.7	66.8	66.0	66.7	68.2	69.4	75.2	72.2	74.9	72.9	70.0
2007	73.4	75.2	70.8	70.8	69.3	70.9	69.2	69.3	71.4	69.9	69.9	73.7	71.0
2008	70.0	68.9	69.2	70.9	69.3	76.4	77.3	78.8	81.5	83.2	79.8	75.8	75.0



DRY ONIONS: Acreage, Yield, Production, Price, and Value, by County, 2004-2008

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2004	180	8.9	1,600	149.0	2,384
2005	220	10.5	2,300	132.0	3,036
2006	140	10.0	1,400	145.0	2,030
2007	160	8.8	1,400	120.0	1,680
2008	160	8.8	1,400	115.0	1,610
County:					
Hawaii/Honolulu/Kauai ²					
2004	55	8.2	450	86.4	389
2005	95	7.9	750	80.9	607
2006	30	4.3	130	86.0	112
2007	60	3.3	200	78.0	156
2008	70	4.3	300	78.2	235
Maui					
2004	125	9.2	1,150	173.5	1,995
2005	125	12.4	1,550	156.7	2,429
2006	110	11.5	1,270	151.0	1,918
2007	100	12.0	1,200	127.0	1,524
2008	90	12.2	1,100	125.0	1,375

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

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

DRY ONIONS: Acreage, Production, and Price, State of Hawaii, 2004-2008

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2004	13	11	9	21	14	15	10	15	12	15	26	19	180
2005	22	17	21	24	9	19	22	15	9	31	22	9	220
2006	6	4	11	8	28	23	8	21	8	6	9	8	140
2007	6	7	8	11	30	22	12	7	11	26	12	8	160
2008	2	6	16	56	15	21	8	5	4	7	12	8	160
Production – 1,000 pounds													
2004	89	52	52	135	142	134	117	142	167	167	228	175	1,600
2005	51	52	69	404	185	330	352	267	143	235	142	70	2,300
2006	40	61	69	94	213	253	148	240	84	64	75	59	1,400
2007	78	88	93	148	233	158	178	113	53	113	113	32	1,400
2008	27	32	112	227	237	244	74	78	42	62	158	107	1,400
Farm price – cents per pound													
2004	137.1	152.9	117.9	126.0	183.8	117.5	174.8	161.5	172.9	168.5	128.8	134.3	149.0
2005	164.5	152.0	163.4	139.5	157.5	100.1	106.6	126.4	144.4	132.3	156.6	174.5	132.0
2006	183.1	174.0	175.9	188.9	179.9	146.5	125.9	113.2	105.4	112.9	131.7	135.4	145.0
2007	140.3	154.9	156.3	149.6	118.6	107.2	96.1	89.0	84.0	93.0	128.3	174.2	120.0
2008	127.5	151.5	117.3	111.8	130.8	109.0	63.5	85.6	111.9	114.1	121.6	132.8	115.0



GREEN ONIONS: Acreage, Yield, Production, Price, and Value, by County, 2004-2008

Year	Harvested acres	Yield per acre ----- 1,000 pounds -----	Production	Farm price Cents per pound	Value of sales 1,000 dollars
State ¹					
2004	130	12.3	1,600	97.0	1,552
2005	155	11.0	1,700	99.0	1,683
2006	130	11.5	1,500	100.0	1,500
2007	135	10.4	1,400	114.0	1,596
2008	125	12.8	1,600	124.0	1,984
County:					
Hawaii/Kauai/Maui ²					
2004	15	13.3	200	104.1	208
2005	15	13.3	200	114.0	228
2006	15	18.0	270	113.8	307
2007	15	13.3	200	137.8	276
2008	20	15.0	300	145.5	437
Honolulu					
2004	115	12.2	1,400	96.0	1,344
2005	140	10.7	1,500	97.0	1,455
2006	115	10.7	1,230	97.0	1,193
2007	120	10.0	1,200	110.0	1,320
2008	105	12.4	1,300	119.0	1,547

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

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

GREEN ONIONS: Acreage, Production, and Price, State of Hawaii, 2004-2008

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2004	11	9	8	10	12	11	11	12	11	10	12	13	130
2005	15	14	13	15	14	14	9	10	11	11	12	17	155
2006	12	10	11	9	9	9	12	12	11	11	11	13	130
2007	10	13	12	13	11	11	11	10	11	11	11	11	135
2008	11	9	10	10	10	11	11	10	10	11	11	11	125
Production – 1,000 pounds													
2004	111	95	102	140	147	138	154	156	147	145	130	135	1,600
2005	104	88	131	132	157	145	147	141	148	148	161	198	1,700
2006	123	129	114	58	135	143	125	135	117	128	167	126	1,500
2007	109	136	122	122	124	106	105	117	117	119	124	99	1,400
2008	128	131	143	124	150	129	140	132	142	141	126	114	1,600
Farm price – cents per pound													
2004	103.8	115.8	115.1	103.3	88.0	86.5	83.4	93.3	89.7	96.2	104.5	99.9	97.0
2005	112.6	127.3	126.3	107.2	100.4	93.6	91.3	87.3	84.6	91.6	91.6	94.9	99.0
2006	98.8	101.4	108.4	132.8	104.9	91.7	92.0	91.0	90.3	92.3	107.2	106.5	100.0
2007	137.5	112.4	107.6	104.4	96.2	112.0	104.9	113.1	119.1	113.8	113.2	140.5	114.0
2008	138.8	134.6	119.9	114.9	113.8	113.8	118.8	128.5	129.1	126.2	122.1	129.1	124.0



GREEN PEPPERS: Acreage, Yield, Production, Price, and Value, State of Hawaii, 2004-2008

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
2004	240	13.3	3,200	69.0	2,208
2005	230	13.0	3,000	64.0	1,920
2006	260	10.8	2,800	71.0	1,988
2007	160	11.3	1,800	69.0	1,242
2008¹					

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

GREEN PEPPERS: Acreage, Production, and Price, State of Hawaii, 2004-2008

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres¹													
2004	20	19	19	20	20	20	19	20	20	20	22	21	240
2005	22	20	23	23	22	20	23	22	22	21	21	19	230
2006	22	22	25	23	21	21	21	23	23	25	22	22	260
2007	21	21	21	21	22	14	1	2	5	2	11	19	160
2008²													
Production – 1,000 pounds													
2004	295	274	221	258	281	280	282	284	279	330	218	198	3,200
2005	218	230	274	314	310	168	240	241	226	236	253	290	3,000
2006	237	270	255	310	225	226	244	203	223	196	182	229	2,800
2007	200	248	239	252	257	188	5	30	39	15	124	203	1,800
2008²													
Farm price – cents per pound													
2004	71.7	76.5	78.1	78.7	71.6	64.2	60.1	57.1	57.2	66.6	74.4	78.8	69.0
2005	58.9	61.3	72.3	61.1	58.9	69.4	68.5	63.3	58.4	62.2	64.6	69.9	64.0
2006	82.3	75.1	76.1	72.3	73.8	68.9	68.3	68.2	65.1	67.1	66.5	64.3	71.0
2007	67.4	78.5	74.6	62.0	63.0	60.6	73.0	80.0	80.0	80.0	60.9	76.9	69.0
2008²													

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

² Data not shown separately to avoid disclosure of individual operations but combined and included in the State total on page 7.



SWEET POTATOES

SWEET POTATOES: Acreage, Yield, Production, Price, and Value, by County, 2004-2008

Year	Harvested acres	Yield per acre ----- 1,000 pounds -----	Production	Farm price Cents per pound	Value of sales 1,000 dollars
State ¹					
2004	400	11.5	4,600	47.0	2,162
2005	410	15.4	6,300	61.0	3,843
2006	360	16.7	6,000	74.0	4,440
2007	420	16.9	7,100	51.0	3,621
2008	470	17.2	8,100	59.0	4,779
County:					
Hawaii/Honolulu/Kauai ²					
2004	350	11.4	4,000	45.8	1,832
2005	340	16.8	5,720	60.6	3,466
2006 ³					
2007 ³					
2008 ³					
Maui					
2004	50	12.0	600	55.0	330
2005	70	8.3	580	65.0	377
2006 ³					
2007 ³					
2008 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.



ROMAINE: Acreage, Yield, Production, Price, and Value, by County, 2004-2008

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
State ¹					
2004	140	10.7	1,500	50.0	750
2005	140	12.1	1,700	59.0	1,003
2006	110	11.8	1,300	63.0	819
2007	100	12.0	1,200	67.0	804
2008	90	11.1	1,000	59.0	590
County:					
Hawaii/Honolulu ²					
2004	110	10.0	1,100	49.6	546
2005	105	10.5	1,100	61.7	679
2006	90	11.4	1,030	63.3	652
2007	80	11.8	940	69.8	656
2008	70	11.4	800	61.0	488
Maui					
2004	30	13.3	400	51.0	204
2005	35	17.1	600	54.0	324
2006	20	13.5	270	62.0	167
2007	20	13.0	260	57.0	148
2008	20	10.0	200	51.0	102

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

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

ROMAINE: Acreage, Production, and Price, State of Hawaii, 2004-2008

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres													
2004	8	18	14	12	10	9	9	12	10	10	12	16	140
2005	12	16	13	15	15	11	10	7	7	8	11	15	140
2006	11	17	12	9	7	8	9	8	9	8	7	5	110
2007	6	8	9	9	9	9	10	7	8	8	9	8	100
2008	8	8	7	9	9	5	6	6	8	7	9	8	90
Production – 1,000 pounds													
2004	107	131	107	119	124	136	125	131	123	123	128	146	1,500
2005	143	131	155	175	176	130	134	124	109	130	142	151	1,700
2006	149	144	103	96	123	106	111	113	97	100	84	74	1,300
2007	83	79	109	105	102	103	115	118	100	107	100	79	1,200
2008	66	80	103	94	88	86	83	87	83	86	74	70	1,000
Farm price – cents per pound													
2004	54.7	54.5	42.2	45.3	52.5	47.6	47.2	46.7	49.1	50.6	51.2	56.8	50.0
2005	47.7	46.3	48.1	57.4	60.7	60.6	62.3	73.5	62.2	62.2	63.4	66.7	59.0
2006	64.2	61.8	63.9	62.2	61.3	61.9	61.8	61.8	66.7	64.2	61.7	66.6	63.0
2007	101.5	67.2	73.1	65.2	57.8	61.9	61.9	61.9	70.4	62.2	64.0	63.8	67.0
2008	69.2	64.8	61.8	61.7	59.9	45.2	45.3	52.6	59.4	62.0	64.9	65.1	59.0



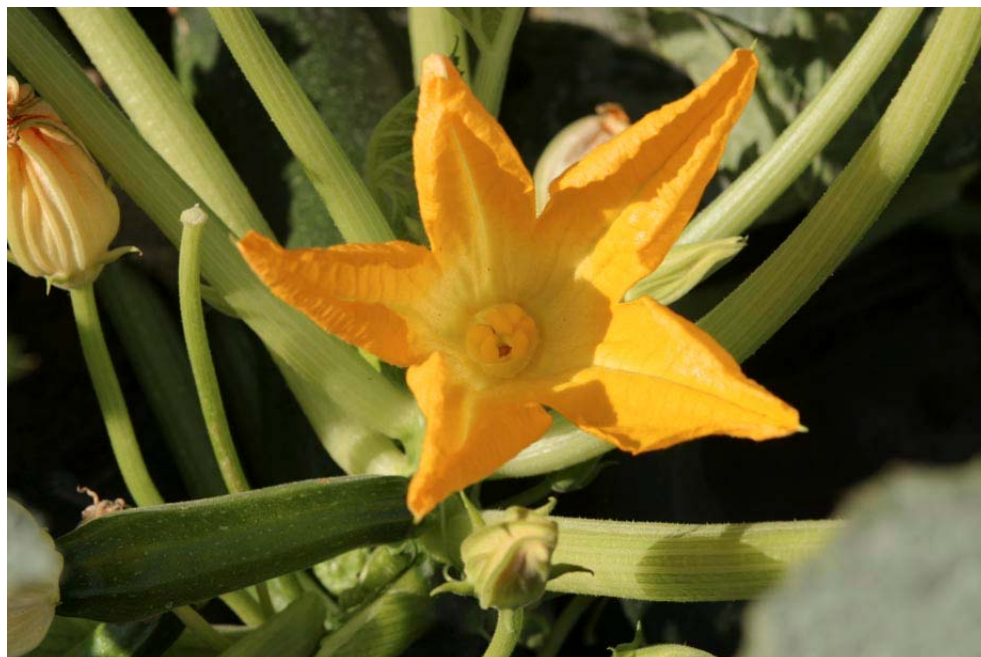
ITALIAN SQUASH

ITALIAN SQUASH: Acreage, Yield, Production, Price, and Value, by County, 2004-2008

Year	Harvested acres	Yield per acre ----- 1,000 pounds -----	Production	Farm price Cents per pound	Value of sales 1,000 dollars
State ¹					
2004	230	7.4	1,700	54.0	918
2005	200	7.5	1,500	56.0	840
2006	175	6.3	1,100	64.0	704
2007	180	6.7	1,200	67.0	804
2008	170	8.7	1,480	60.0	888
County:					
Hawaii/Honolulu/Kauai ²					
2004	155	6.1	940	53.2	500
2005	110	7.7	850	56.0	476
2006	110	5.8	635	66.9	425
2007	110	7.1	780	70.7	551
2008	120	9.4	1,130	60.0	678
Maui					
2004	75	10.1	760	55.0	418
2005	90	7.2	650	56.0	364
2006	65	7.2	465	60.0	279
2007	70	6.0	420	60.0	252
2008	50	7.0	350	60.0	210

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

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



TARO: Number of Farms, Acreage, Marketings, Price, and Value, by County, 2004-2008

Year	Farms	Acreage in crop ¹			Marketings			Farm price			Value of sales 1,000 dollars
		Poi taro	Chinese taro	Total	Fresh	Processed	Total	Poi taro	Chinese taro	All	
		----- Acres -----			----- 1,000 pounds -----			----- Cents per pound -----			
State											
2004	130	360	10	370	100	5,100	5,200	54.0	53.8	54.0	2,808
2005	110	350	10	360	100	4,200	4,300	54.0	54.0	54.0	2,322
2006	105	360	20	380	100	4,400	4,500	56.8	65.5	57.0	2,565
2007	105	355	25	380	100	3,900	4,000	59.2	50.5	59.0	2,360
2008	105	370	20	390	100	4,200	4,300	62.0	61.5	62.0	2,666
County:											
Hawaii											
2004	30	50	10	60	100	400	500	60.0	53.1	57.5	288
2005	30	40	10	50	60	240	300	57.6	50.0	56.1	168
2006	25	55	10	65	70	220	290	61.0	65.5	62.1	180
2007	25	50	10	60	70	220	290	62.0	52.4	59.7	173
2008	25	45	5	50	30	160	190	67.0	65.0	66.7	127
Honolulu/Maui ²											
2004	35	75	*	75	*	800	800	55.1	³	55.1	441
2005	30	75	*	75	40	860	900	56.6	60.0	56.8	511
2006	35	80	10	90	30	880	910	62.5	65.5	62.6	570
2007	35	55	15	70	30	880	910	63.4	46.0	61.9	563
2008	35	75	10	85	50	640	690	71.3	62.0	70.6	487
Kauai											
2004	65	235	*	235	*	3,900	3,900	53.3	³	53.3	2,079
2005	50	235	*	235	*	3,100	3,100	53.0	³	53.0	1,643
2006	45	225	*	225	*	3,300	3,300	55.0	³	55.0	1,815
2007	45	250	*	250	*	2,800	2,800	58.0	³	58.0	1,624
2008	45	250	5	255	20	3,400	3,420	60.0	³	60.0	2,052

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

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

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

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



TOMATOES

TOMATOES: Acreage, Yield, Production, Price, and Value, State of Hawaii, 2004-2008

Year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
2004	600	28.0	16,800	66.0	11,088
2005	660	21.5	14,200	69.0	9,798
2006	700	21.0	14,700	77.0	11,319
2007	740	19.3	14,300	69.0	9,867
2008¹					

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

TOMATOES: Acreage, Production, and Price, State of Hawaii, 2004-2008

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Harvested acres¹													
2004	61	59	52	52	52	51	48	47	49	59	58	59	600
2005	46	61	55	55	55	55	53	53	68	66	68	64	660
2006	68	71	70	69	62	57	58	58	58	66	67	66	700
2007	69	71	71	65	60	62	58	58	56	57	57	56	740
2008²													
Production – 1,000 pounds													
2004	1,440	1,070	1,441	1,443	1,748	1,324	1,678	1,453	1,323	1,527	1,079	1,274	16,800
2005	785	811	1,144	1,476	1,487	1,081	1,128	1,310	1,343	1,053	1,141	1,441	14,200
2006	1,286	1,181	986	1,158	956	911	1,641	1,444	1,570	1,254	1,316	997	14,700
2007	967	946	1,069	1,384	1,356	1,452	1,264	1,295	1,246	1,137	1,109	1,075	14,300
2008²													
Farm price – cents per pound													
2004	59.3	64.4	72.4	65.6	71.6	61.9	44.1	55.5	60.0	74.8	80.0	89.7	66.0
2005	76.9	71.6	68.6	73.0	64.0	76.2	68.0	66.3	61.9	69.1	65.8	71.3	69.0
2006	77.9	77.1	74.1	74.8	77.6	80.4	62.7	63.3	80.8	98.7	90.6	69.6	77.0
2007	77.4	81.0	70.8	64.4	67.4	66.2	57.3	63.2	65.5	68.3	72.1	82.9	69.0
2008²													

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

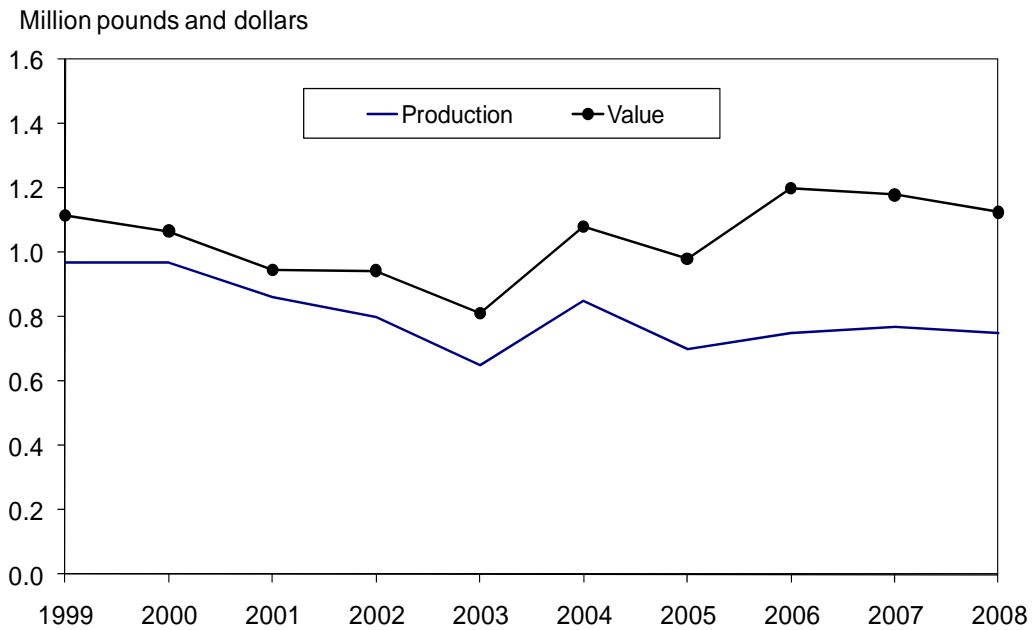
² Data not shown separately to avoid disclosure of individual operations but combined and included in the State total on page 7.



WATERCRESS: Acreage, Production, Price, and Value, State of Hawaii, 2004-2008

Year	Acreage in crop	Production	Farm price	Value of sales
	<i>Acres</i>	<i>1,000 pounds</i>	<i>Cents per pound</i>	<i>1,000 dollars</i>
2004	30	850	127.0	1,080
2005	35	700	140.0	981
2006	35	750	160.0	1,201
2007	35	770	153.0	1,179
2008	35	750	150.0	1,125

WATERCRESS: Production and Farm Value, State of Hawaii, 1999-2008





WATERMELONS

WATERMELONS: Acreage, Yield, Production, Price, and Value, by County, 2004-2008

Year	Harvested acres	Yield per acre ----- 1,000 pounds -----	Production	Farm price Cents per pound	Value of sales 1,000 dollars
State ¹					
2004	510	19.8	10,100	24.0	2,424
2005	450	25.1	11,300	27.0	3,051
2006	590	17.6	10,400	28.0	2,912
2007	540	24.3	13,100	30.0	3,930
2008 ⁴					
County:					
Hawaii/Kauai/Maui ²					
2004	125	4.8	600	24.0	144
2005 ³					
2006 ³					
2007 ³					
2008 ⁴					
Honolulu					
2004	385	24.7	9,500	24.0	2,280
2005 ³					
2006 ³					
2007 ³					
2008 ⁴					

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.

⁴ Data not shown separately to avoid disclosure of individual operations but combined and included in the State total on page 7.





**OTHER VEGETABLES: Acreage, Yield, Production, Price, and Value,
State of Hawaii, 2004-2008**

Crop and year	Harvested acres	Yield per acre	Production	Farm price	Value of sales
		----- 1,000 pounds -----		Cents per pound	1,000 dollars
Bittermelon					
2004	20	12.5	250	80.0	200
2005	30	8.3	250	93.0	233
2006	25	7.2	180	80.0	144
2007	20	7.5	150	82.0	123
2008	20	7.0	140	90.0	126
Broccoli					
2004	125	4.0	500	67.0	335
2005	125	4.8	600	73.0	438
2006	60	5.5	330	84.0	277
2007	80	4.9	390	93.0	363
2008	80	4.5	360	97.0	349
Cabbage, mustard					
2004	155	9.0	1,400	58.0	812
2005	110	12.7	1,400	56.0	784
2006	115	12.2	1,400	58.0	812
2007	105	13.3	1,400	63.0	882
2008	95	13.7	1,300	70.0	910
Pumpkins					
2004	40	6.3	250	58.0	145
2005	35	2.3	80	63.0	50
2006	25	11.6	290	60.0	174
2007	40	11.8	470	52.0	244
2008	30	3.0	90	66.0	59
Squash, Oriental (Hyotan and Togan)					
2004	50	13.0	650	53.0	345
2005	40	11.3	450	55.0	247
2006	40	10.0	400	46.0	184
2007	40	12.5	500	44.0	220
2008	40	8.8	350	62.0	217



2008 CATTLE, MILK, AND HOG HIGHLIGHTS

◆ Cattle and calves

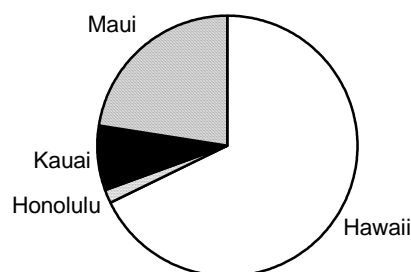
State's January 1 inventory down 1 percent

The inventory of cattle and calves on Hawaii ranches totaled 150,000 head on January 1, 2009. This represented a 1 percent decline from 2008 as reductions in Honolulu and Maui counties more than offset Kauai county's increased inventory.

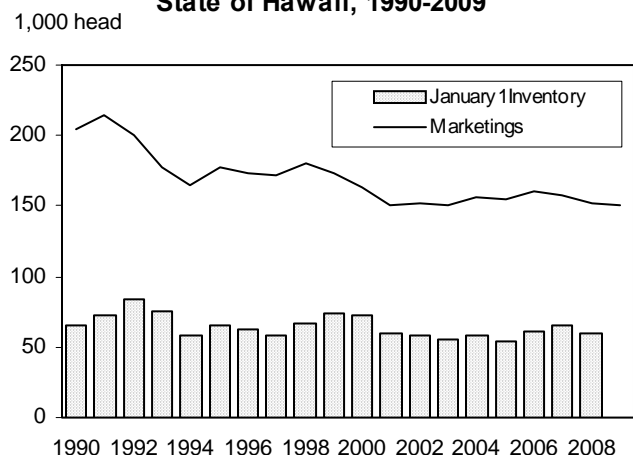
Hawaii county's inventory remained stable at 109,100 head and accounted for 73 percent of the State's total. Maui county was a distant second with an inventory of 23,200 head, down 6 percent from 2008. Kauai county experienced an increase in the inventory of cattle and calves at 13,300 head or 6 percent higher than on January 1, 2008. Honolulu county accounted for 3 percent of the State's cattle and calves inventory with 4,400 head.

Hawaii county led all counties with 2008 sales of cattle and calves at \$16.5 million, down 16 percent from 2007. Ranchers in Maui county posted a gain in sales at \$5.5 million, up 29 percent from 2007. Kauai also recorded an increase in sales at \$2.0 million. Honolulu county experienced the largest decline in the sale of cattle and calves at \$358,000 in 2008, down 62 percent.

CATTLE AND CALVES: Value of Sales, by County, State of Hawaii, 2008



CATTLE: Inventory and Marketings, State of Hawaii, 1990-2009



Cattle marketings increase

Marketings during 2008 totaled 35.9 million pounds (live weight), down 1 percent from 2007. Sale of calves (animals weighing less than 500 pounds) accounted for 69 percent of total marketings in 2008. The 41,000 calves sold in 2008 represented a 15 percent decrease from 2007.

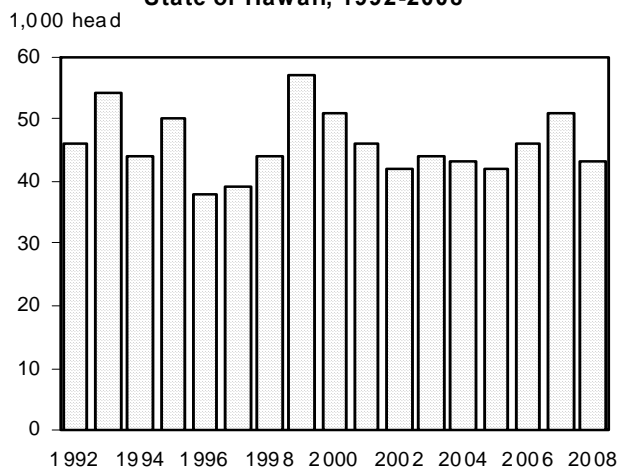
Value of sales down 7 percent

The value of all cattle and calves marketed in 2008 totaled \$24.3 million, down 7 percent from 2007. The annual average price received by ranchers for all cattle and calves marketed in 2008 was \$67.70 per hundredweight (live weight), down 6 percent from 2007.

Exports of cattle and calves down 16 percent

Hawaii ranchers exported 43,000 head of cattle and calves in 2008, down 16 percent from 2007. Calves (animals weighing less than 500 pounds) accounted for the bulk of the exports at 41,000 head in 2008 compared to 2,000 head of cattle (animals weighing 500 pounds or more) that were exported.

CATTLE AND CALVES: Exports, State of Hawaii, 1992-2008

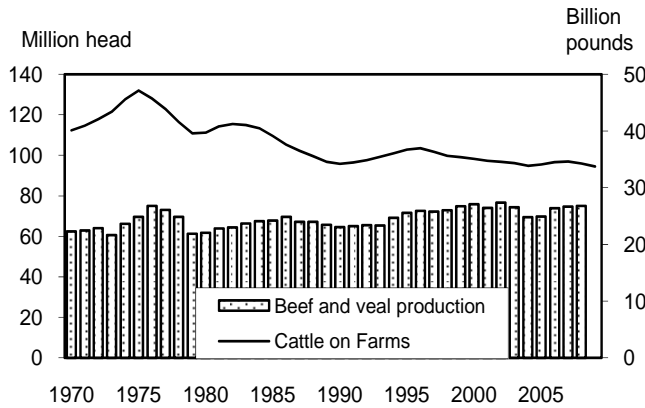




U.S. cattle inventory down fractionally

All cattle and calves in the United States as of January 1, 2009, totaled 94.5 million head, down from the 96.0 million on January 1, 2008. The 2008 U.S. calf crop was estimated at 36.1 million head, down 2 percent from 2007. Calves born during the first half of the year were estimated at 26.3 million, down 1 percent from 2007.

CATTLE: Beef and Veal Production and Cattle on Farms, United States, 1970-2009

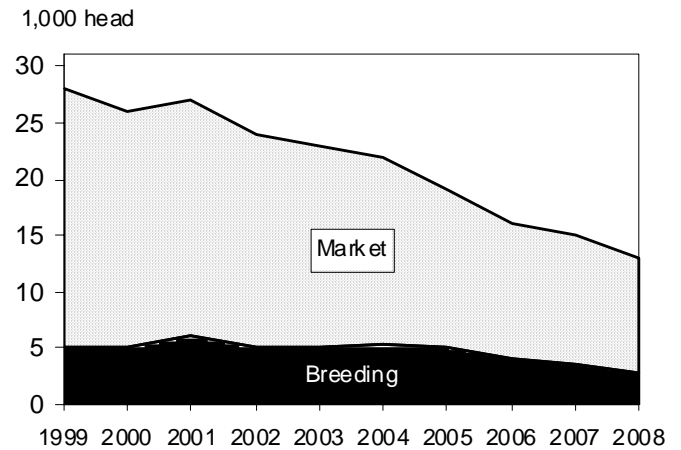


Honolulu county was the only area to record an increase in inventory at 9,400 head. Maui and Kauai counties had the second most hogs and pigs at 1,500 head each. The Hawaii county had an inventory of 600 hogs and pigs on December 1, 2008, accounting for 5 percent of the State's hogs and pigs.

Hog marketings decreased

Hog marketings totaled 3.5 million pounds (live weight) in 2008, down 11 percent from 2007 due to a decline in the number of hogs sold and lighter average weights. Honolulu county led the State in hog sales with 2.0 million pounds (live weight) in 2008, down 9 percent from 2007.

HOGS AND PIGS: Inventory by Classes, State of Hawaii, 1999-2009



◆ **Milk Production drops 48 percent**

Hawaii's dairy cows produced 18.5 million pounds of milk in 2008, down 48 percent from 2007. By the end of the year, only two commercial dairies remained in the State; both located on the Big Island.

The cow herd declined 41 percent to an annual average of 1,700 head. Cows produced an average of 10,882 pounds of milk in 2008, 11 percent less per cow than in 2007.

In 2008, milk producers received an average return of \$30.50 per hundredweight for milk sold, up 8 percent from 2007. Revenues at the farm gate level fell 44 percent to a total of \$5.5 million in 2008.

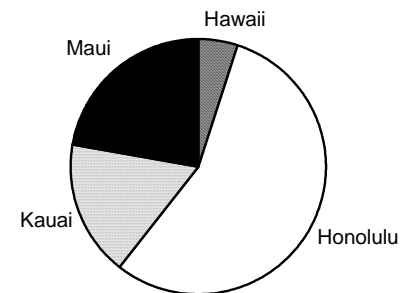
◆ **Hogs and Pigs Statewide inventory down 13 percent**

The inventory of hogs and pigs on Hawaii's farms totaled 13,000 head on December 1, 2008. This represents a 13 percent, or 2,000 head decline from December 1, 2007.

Value of hog sales drop 9 percent

Total value of hog sales declined 9 percent to \$3.4 million in 2008. The average farm price rose to \$97.20 per hundredweight (live weight), 2 percent higher than the 2007 average of \$94.90.

HOGS: Value of Sales, by County, State of Hawaii, 2008





CATTLE

CATTLE AND CALVES: January 1 Inventory by Sex Classes and Weight, by County, 2005-2009

Year	All cattle and calves	All cows and heifers that have calved			Heifers 500 pounds and over				Steers 500 lbs. and over	Bulls 500 lbs. and over	Steers, heifers, and bulls under 500 lbs.
		Total	Beef cows	Milk cows	Total	Beef cow replacements	Milk cow replacements	Other			
<i>1,000 head</i>											
State ¹											
2005	155	87	81.3	5.7	22	15	2	5	7	5	34
2006	161	92	87.4	4.6	22	15	2	5	7	5	35
2007	158	89	85.2	3.8	21	15	1	5	8	5	35
2008	152	85	82.7	2.3	20	14	1	5	8	5	34
2009	150	86	84.4	1.6	19	13	1	5	8	5	32
County:											
Hawaii											
2005	116.0	64.4	61.4	3.0	16.2	11.7	1.2	3.3	4.5	3.7	27.2
2006	119.3	69.5	67.1	2.4	15.6	11.9	1.1	2.6	3.7	3.9	26.6
2007	117.2	67.6	65.4	2.2	15.5	11.9	.9	2.7	3.9	3.8	26.4
2008	109.1	63.7	61.9	1.8	12.8	10.1	.5	2.2	3.6	3.2	25.8
2009	109.1	66.1	64.5	1.6	12.2	8.9	1.0	2.3	3.7	3.4	23.7
Honolulu											
2005	8.0	5.1	2.4	2.7	1.2	.5	.5	.2	.3	.1	1.3
2006	8.2	5.0	2.8	2.2	1.2	.5	.6	.1	.4	.2	1.4
2007	7.1	4.1	2.5	1.6	.9	.5	.3	.1	.3	.1	1.7
2008	5.6	2.7	2.3	.4	1.0	.8	0	.2	.5	.1	1.3
2009	4.4	2.2	2.2	*	.7	.5	0	.2	.4	.1	1.0
Kauai											
2005	12.0	6.3	6.3	*	1.9	1.1	0	.8	1.2	.4	2.2
2006	11.9	6.0	6.0	*	1.7	.9	0	.8	1.1	.3	2.8
2007	12.0	5.8	5.8	*	1.7	.9	0	.8	1.0	.4	3.1
2008	12.5	5.9	5.9	*	2.2	1.4	0	.8	1.0	.4	3.0
2009	13.3	6.3	6.3	*	2.3	1.4	0	.9	1.0	.5	3.2
Maui											
2005	19.0	11.2	11.2	*	2.5	1.5	0	1.0	1.2	.6	3.5
2006	21.6	11.5	11.5	*	3.3	2.1	0	1.2	2.0	.6	4.2
2007	21.7	11.5	11.5	*	2.9	1.9	0	1.0	2.6	.8	3.9
2008	24.8	12.7	12.6	.1	3.9	2.0	0	1.9	2.9	1.0	4.3
2009	23.2	11.4	11.4	*	3.8	2.2	0	1.6	2.9	1.0	4.1

* = Less than 50.

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

**CATTLE AND CALVES: Number of Operations, Number and Pounds Sold, Price, and Value,
by County, 2004-2008**

Year	Operations	Number sold ^{1 2}	Pounds sold (live weight) ³	Farm price (live weight) ⁴	Value of sales ²
	<i>Number</i>	<i>1,000 head</i>	<i>1,000 pounds</i>	<i>Dollars per hundredweight</i>	<i>1,000 dollars</i>
State					
2004	800	58	34,750	64.80	22,534
2005	800	54	29,930	75.30	22,548
2006	800	61	34,510	76.70	26,452
2007	1,100	65	36,160	72.40	26,196
2008	1,000	59	35,920	67.70	24,305
County:					
Hawaii					
2004	470	44.3	25,213	66.90	16,873
2005	470	41.1	21,018	79.90	16,790
2006	470	46.4	24,911	79.50	19,809
2007	730	50.7	25,893	76.00	19,676
2008	680	43.5	23,697	69.60	16,493
Honolulu					
2004	50	1.7	1,166	58.40	681
2005	50	3.0	2,277	60.70	1,382
2006	50	3.1	2,360	64.20	1,515
2007	60	2.5	1,270	74.20	942
2008	50	.8	615	58.20	358
Kauai					
2004	120	4.8	3,260	60.30	1,965
2005	120	3.8	2,785	60.60	1,689
2006	120	3.9	2,683	64.30	1,725
2007	130	3.1	1,954	67.50	1,318
2008	120	5.2	2,529	77.50	1,959
Maui					
2004	160	7.2	5,111	59.00	3,015
2005	160	6.1	3,850	69.80	2,686
2006	160	7.6	4,556	74.70	3,403
2007	180	8.7	7,043	60.50	4,260
2008	150	9.5	9,079	60.50	5,495

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

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

³ Excludes custom slaughter for use on farms where produced.

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



CATTLE

CATTLE: Number Sold, Pounds, Price, and Value, State of Hawaii, 2004-2008

Year	Number sold ¹	Pounds sold (live weight) ²	Farm price (live weight)	Value of sales
	<i>1,000 head</i>	<i>1,000 pounds</i>	<i>Dollars per hundredweight</i>	<i>1,000 dollars</i>
2004	24	20,470	47.30	9,682
2005	15	13,160	49.00	6,448
2006	20	17,290	52.40	9,060
2007	17	15,520	49.10	7,620
2008	18	18,700	51.70	9,668

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

² Excludes custom slaughter for use on farms where produced.

CALVES: Number Sold, Pounds, Price, and Value, State of Hawaii, 2004-2008

Year	Number sold ¹	Pounds sold (live weight) ²	Farm price (live weight)	Value of sales
	<i>1,000 head</i>	<i>1,000 pounds</i>	<i>Dollars per hundredweight</i>	<i>1,000 dollars</i>
2004	34	14,280	90.00	12,852
2005	39	16,770	96.00	16,099
2006	41	17,220	101.00	17,392
2007	48	20,640	90.00	18,576
2008	41	17,220	85.00	14,637

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

² Excludes custom slaughter for use on farms where produced.

CATTLE AND CALVES: Inventory and Disposition, State of Hawaii, 2004-2008

Year	Inventory beginning January 1	Calf crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory January 1 following year
	<i>1,000 head</i>						
2004	156	63	*	58	1	5	155
2005	155	66	*	54	1	5	161
2006	161	65	*	61	1	6	158
2007	158	65	*	65	1	5	152
2008	152	65	*	59	1	7	150

* = Less than 500.

CATTLE AND CALVES: Exports by Weight and Sex, State of Hawaii, 2004-2008

Year	Total	By weight category		By sex class		
		Cattle ¹	Calves ²	Steers	Heifers	Others
	<i>1,000 head</i>					
2004	43	9	34	26	17	NA
2005	42	3	39	22	18	2
2006	46	5	41	27	17	2
2007	51	3	48	26	23	2
2008	43	2	41	23	19	1

NA = Not available.

¹ 500 pounds or more.

² 499 pounds or less.

CATTLE: Commercial Slaughter and Farm Price, State of Hawaii, 2004-2008¹

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Number of head² – 1,000 head													
2004	.9	.8	.9	.8	.9	.8	1.0	1.1	.9	.9	.9	.8	10.5
2005	.7	.7	.8	.9	.8	.8	.7	.8	.7	.7	.8	.9	9.2
2006	.8	.8	1.0	.8	1.0	.9	.9	1.0	.9	.9	.7	.8	10.5
2007	.9	.8	.9	.9	1.0	.9	.9	1.1	.9	1.0	.9	.8	11.1
2008	1.0	.8	.9	1.0	1.0	.9	1.1	1.0	.9	1.0	.9	.9	11.5
Pounds slaughtered, dressed weight^{2,3} – 1,000 pounds													
2004	570	456	551	472	511	461	599	625	501	502	482	446	6,176
2005	397	385	469	512	453	497	437	504	430	444	456	483	5,466
2006	447	446	567	455	556	525	539	610	535	520	438	450	6,088
2007	533	476	540	508	582	557	516	610	536	585	495	452	6,390
2008	658	518	569	613	612	585	675	611	583	646	534	571	7,174
Average farm price, dressed weight – cents per pound													
2004	71.0	74.0	74.5	72.5	72.0	79.0	72.0	71.0	76.0	76.5	75.0	80.0	74.0
2005	81.5	79.5	77.5	77.0	80.5	83.5	82.5	80.5	82.0	82.0	84.0	79.5	80.5
2006	77.0	82.5	80.5	80.0	81.0	79.5	78.0	80.5	79.5	79.0	82.5	81.5	80.0
2007	85.0	81.0	80.0	83.5	80.0	82.0	83.5	83.0	82.5	84.5	85.0	83.5	83.0
2008	87.0	88.0	90.0	89.0	90.0	90.5	91.5	90.0	92.5	90.0	95.0	96.0	90.5

¹ Includes custom slaughter for home use.

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

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

CATTLE: Local Marketings and Farm Price, State of Hawaii, 1996-2008¹

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 -----			
1996	3,777	47.3	86.0	5,486	27.5	50.0		
1997	3,762	47.1	86.0	5,029	28.8	52.5		
1998	4,337	45.6	83.0	6,282	27.2	49.5		
1999	2,980	44.8	81.5	4,620	27.6	50.0		
2000	5,308	44.3	80.5	4,501	27.4	50.0		
2001	2,692	50.9	92.5	3,060	28.7	52.5		
2002	5,040	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	7,363	58.2	106.0	1,479	29.2	53.2		

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.



MILK: Number of Operations, Number of Milk Cows, Production, Sales, Price, and Value, by County, 2004-2008

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 -----			Pounds	----- Million pounds -----		Dollars per hundredweight	1,000 dollars
State								
2004	30	10	6,100	13,197	80.5	78.5	25.70	20,175
2005	30	5	5,400	12,889	69.6	68.1	27.00	18,387
2006	30	5	4,300	13,256	57.0	55.8	26.00	14,508
2007	15	5	2,900	12,241	35.5	34.3	28.20	9,673
2008	15	2	1,700	10,882	18.5	17.9	30.50	5,460
County:								
Hawaii/Kauai/Maui⁵								
2004	24	5	6	6	6	6	6	6
2005	24	2	6	6	6	6	6	6
2006	24	2	6	6	6	6	6	6
2007	12	2	6	6	6	6	6	6
2008	12	2	6	6	6	6	6	6
Honolulu								
2004	6	5	6	6	6	6	6	6
2005	6	3	6	6	6	6	6	6
2006	6	3	6	6	6	6	6	6
2007	3	3	6	6	6	6	6	6
2008	3	0	6	6	6	6	6	6

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. Rounded to the nearest five at the State level.

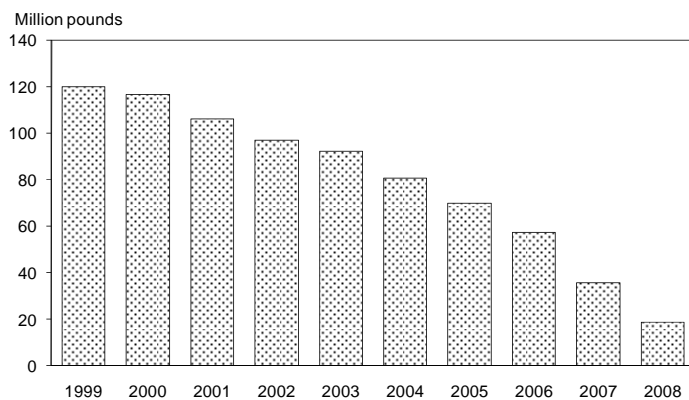
³ Difference between "Production" and "Sold" is milk used on farms for human consumption, fed to calves or other uses.

⁴ Rounded to the nearest dime.

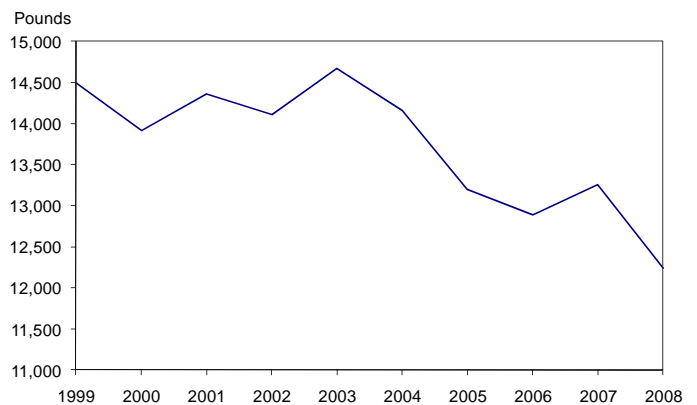
⁵ Kauai and Maui combined with Hawaii to avoid disclosure of individual operations.

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, 1999-2008



MILK: Annual milk per cow, State of Hawaii, 1999-2008



MILK: Number of Cows, Milk Production, Price, and Milkfat, State of Hawaii, 2004-2008

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Average number of milk cows on hand during month – 1,000 head													
2004	6.5	6.5	6.4	6.4	6.2	6.1	6.0	5.9	6.0	5.8	5.7	5.8	6.1
2005	5.8	5.7	5.6	5.5	5.4	5.2	5.3	5.4	5.3	5.2	5.1	5.0	5.4
2006	4.6	4.4	4.4	4.5	4.3	4.3	4.3	4.2	4.2	4.1	3.9	3.8	4.3
2007	3.8	3.7	3.3	3.2	3.2	2.7	2.7	2.6	2.6	2.5	2.3	2.3	2.9
2008	2.2	1.9	1.8	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7
Average monthly production per all cows in herd – pounds													
2004	1,125	1,060	1,205	1,125	1,210	1,230	1,165	1,085	935	985	1,020	1,015	13,197
2005	1,000	980	1,125	1,125	1,205	1,210	1,150	1,095	1,020	1,020	980	1,040	12,889
2006	1,150	1,090	1,180	1,065	1,185	1,140	1,165	1,145	1,050	1,025	1,025	1,185	13,256
2007	1,180	1,000	1,200	1,110	1,020	1,080	1,000	970	860	920	840	840	12,241
2008	790	740	860	900	850	900	900	930	880	930	970	970	10,882
Milk production – million pounds													
2004	7.3	6.9	7.7	7.2	7.5	7.5	7.0	6.4	5.6	5.7	5.8	5.9	80.5
2005	5.8	5.6	6.3	6.2	6.5	6.3	6.1	5.9	5.4	5.3	5.0	5.2	69.6
2006	5.3	4.8	5.2	4.8	5.1	4.9	5.0	4.8	4.4	4.2	4.0	4.5	57.0
2007	4.4	3.8	3.9	3.6	3.3	2.8	2.7	2.5	2.2	2.2	2.1	2.0	35.5
2008	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
Average price for milk sold to plants – dollars per hundredweight													
2004	24.10	23.90	24.20	25.40	28.00	29.40	27.00	25.10	25.00	25.20	25.10	25.30	25.70
2005	28.60	26.90	27.20	27.00	27.40	26.40	26.40	26.90	26.80	26.70	26.80	26.80	27.00
2006	26.80	26.20	25.50	25.10	24.90	24.80	24.90	26.40	26.70	26.90	27.00	26.90	26.00
2007	26.80	26.90	27.00	27.10	27.40	27.70	29.90	29.90	30.00	29.80	30.00	30.00	28.20
2008	29.80	29.50	29.30	29.20	29.40	29.40	29.40	29.50	29.50	29.50	35.30	35.40	30.50
Average milkfat for milk sold to plants – percent													
2004	3.61	3.52	3.53	3.50	3.44	3.43	3.45	3.46	3.56	3.62	3.62	3.58	3.52
2005	3.57	3.47	3.43	3.45	3.40	3.39	3.25	3.33	3.42	3.37	3.36	3.40	3.40
2006	3.37	3.38	3.39	3.41	3.36	3.30	3.37	3.33	3.37	3.38	3.34	3.37	3.36
2007	3.35	3.43	3.40	3.33	3.33	3.37	3.41	3.48	3.45	3.47	3.48	3.46	3.40
2008	3.40	3.47	3.20	3.27	3.29	3.37	3.37	3.44	3.50	3.54	3.36	3.47	3.39



HOGS

HOGS AND PIGS: December 1 Inventory by Classes and Weight, State of Hawaii, 2004-2008

Year	All hogs and pigs	Breeding	Market				
			Total	Under 60lbs.	60-119 lbs.	120-179 lbs.	180 lbs. and over
<i>1,000 head</i>							
2004	22	5.2	16.8	7.6	4.4	3.2	1.6
2005	19	5.0	14.0	6.0	3.9	2.4	1.7
2006	16	4.1	11.9	5.5	3.0	2.0	1.4
2007	15	3.6	11.4	5.8	2.7	1.8	1.1
2008	13	2.8	10.2	4.3	2.8	1.9	1.2

HOGS AND PIGS: December 1 Inventory by Class, by County, 2004-2008

Year	All hogs and pigs	Breeding	Total market	Year	All hogs and pigs	Breeding	Total market
<i>1,000 head</i>				<i>1,000 head</i>			
County: Hawaii				Kauai			
2004	1.4	.3	1.1	2004	2.2	.5	1.7
2005	1.1	.3	.8	2005	2.0	.4	1.6
2006	.9	.3	.6	2006	2.0	.3	1.7
2007	1.1	.4	.7	2007	2.0	.3	1.7
2008	.6	.2	.4	2008	1.5	.2	1.3
Honolulu				Maui			
2004	13.0	2.5	10.5	2004	5.4	1.9	3.5
2005	11.4	2.8	8.6	2005	4.5	1.5	3.0
2006	9.6	2.5	7.1	2006	3.5	1.0	2.5
2007	9.2	2.4	6.8	2007	2.7	.5	2.2
2008	9.4	2.1	7.3	2008	1.5	.3	1.2



**HOGS: Number of Operations, Number and Pounds Sold, Price, and Value,
by County, 2004-2008**

Year	Operations	Number sold ¹	Pounds sold (live weight) ²	Farm price (live weight)	Value of sales
	<i>Number</i>	<i>1,000 head</i>	<i>1,000 pounds</i>	<i>Dollars per hundredweight</i>	<i>1,000 dollars</i>
State³					
2004	250	27	5,130	87.00	4,463
2005	230	26	5,070	89.80	4,553
2006	230	23	4,485	92.70	4,158
2007	230	20	3,880	94.90	3,682
2008	230	18	3,456	97.20	3,359
County:					
Hawaii					
2004	70	2.6	484	84.00	407
2005	70	1.8	369	86.50	319
2006	70	1.5	303	84.50	256
2007	70	1.1	216	85.50	185
2008	70	1.0	203	84.00	171
Honolulu					
2004	80	15.7	3,085	88.00	2,715
2005	70	15.6	3,069	90.00	2,762
2006	70	12.9	2,591	91.50	2,371
2007	70	11.1	2,157	91.50	1,974
2008	70	9.9	1,968	94.50	1,860
Kauai					
2004	40	3.6	545	88.50	482
2005	30	3.7	643	92.00	592
2006	30	3.7	596	102.50	611
2007	30	3.4	575	111.00	638
2008	30	3.3	496	116.50	578
Maui					
2004	60	5.1	1,016	84.50	859
2005	60	4.9	989	89.00	880
2006	60	4.9	995	92.50	920
2007	60	4.4	932	95.00	885
2008	60	3.8	789	95.00	750

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

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

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



HOGS: Commercial Slaughter and Farm Price, State of Hawaii, 2004-2008

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Number of head^{1 2} – 1,000 head													
2004	2.4	2.0	2.3	2.3	2.3	2.4	2.5	2.5	2.2	2.2	2.3	3.0	28.3
2005	2.0	1.9	2.0	1.9	2.0	1.9	1.9	1.8	1.9	1.7	2.0	2.4	23.5
2006	1.8	1.7	1.8	1.7	2.0	2.2	1.9	2.0	1.8	1.8	1.8	2.2	22.5
2007	1.7	1.5	1.7	1.7	1.8	1.9	1.8	1.9	1.5	1.6	1.7	2.0	21.0
2008	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.6	1.6	1.4	1.8	19.2
Pounds slaughtered, dressed weight^{1 2 3} – 1,000 pounds													
2004	353	311	338	344	356	359	373	386	331	347	354	447	4,297
2005	302	287	312	299	328	311	318	306	310	285	338	387	3,784
2006	304	276	301	294	333	368	322	336	319	322	301	360	3,836
2007	281	254	283	263	296	296	291	298	253	269	301	332	3,416
2008	248	254	260	263	277	271	288	299	275	281	225	303	3,242
All hogs, average farm price, dressed weight⁴ – cents per pound													
2004	115.0	116.5	115.5	114.5	114.5	116.0	116.0	116.5	116.5	117.0	116.5	118.5	116.0
2005	119.5	120.5	120.0	121.0	118.0	119.5	121.5	120.5	118.5	121.0	119.5	122.5	119.5
2006	123.0	125.5	122.5	122.5	124.0	126.5	123.5	122.0	124.5	124.0	127.0	124.5	123.5
2007	126.0	127.5	127.5	125.5	125.5	125.5	130.0	129.0	127.5	129.5	124.0	126.0	126.5
2008	128.5	129.5	129.5	134.0	129.5	130.0	132.0	129.0	130.0	130.5	131.0		129.5
Market hogs, average farm price, dressed weight⁴ – cents per pound													
2004	119.0	119.5	119.5	118.5	119.5	119.5	120.0	120.0	121.0	120.5	120.5	123.0	119.5
2005	123.0	124.0	124.0	124.0	124.0	125.5	125.0	125.5	124.5	125.0	124.0	127.5	124.0
2006	127.0	128.5	127.5	126.0	127.0	131.5	130.0	129.5	129.0	128.5	131.5	129.5	128.5
2007	129.0	130.5	131.0	130.5	132.5	130.0	133.0	132.0	132.5	134.0	130.5	130.5	131.0
2008	132.0	132.5	135.5	138.5	135.0	133.0	136.5	133.5	133.0	133.0	133.5		133.5

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

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

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

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

HOGS AND PIGS: Inventory and Disposition, State of Hawaii, 2004-2008

Year	Inventory December 1 previous year	Pig crop	Inshipments ¹	Marketings ¹	Farm slaughter	Deaths	Inventory December 1
<i>1,000 head</i>							
2004	23	31	*	27	1	4	22
2005	22	28	*	26	1	4	19
2006	19	25	*	23	1	4	16
2007	16	24	*	20	1	4	15
2008	15	20	*	18	1	3	13

* = Less than 500 head.

¹ Excludes live hogs brought in for immediate slaughter.



State's December 1 inventory decreases 6 percent

Hawaii farmers had 373,000 egg-type chickens on hand on December 1, 2008, down 25,000 birds or 6 percent from 2007. The reduction in birds came about as some large egg operations continued to reduce their inventory due to higher input costs. Of the total inventory, 334,000 birds or 90 percent were layers and 39,000 were non-laying pullets.

a decrease of 9 percent compared to 2007. Production per layer also declined to an average of 214 eggs in 2008, down 1 percent from the 2007 rate of 216 eggs per layer.

Record high average farm price helps offset lower production

The farm price for a dozen eggs averaged a record high \$1.42 in 2008, up 33.0 cents a dozen from the previous record high set in 2007.

Egg production down 10 percent

Egg production for 2008 totaled 73.3 million, down 10 percent from the 2007 total of 81.8 million eggs. The average number of layers on hand during 2008 was 343,000 birds,

Total cash receipts from the sale of eggs, increased 17 percent to \$8.7 million in 2008 as higher farm prices more than offset lower egg production.

CHICKENS: December 1 Inventory by Class, by County, 2004-2008

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	
<i>Thousands</i>							
State							
2004	598	349	158	507	44	47	*
2005	547	369	117	486	25	36	*
2006	470	293	122	415	20	35	*
2007	398	265	90	355	20	23	*
2008	373	250	84	334	18	21	*
County:							
Hawaii/Kauai/Maui¹							
2004	131	78	48	126	5	0	*
2005	104	67	30	97	3	4	*
2006 ²							
2007²							
2008²							
Honolulu							
2004	467	271	110	381	39	47	*
2005	443	302	87	389	22	32	*
2006 ²							
2007 ²							
2008²							

* = Less than 500.

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

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

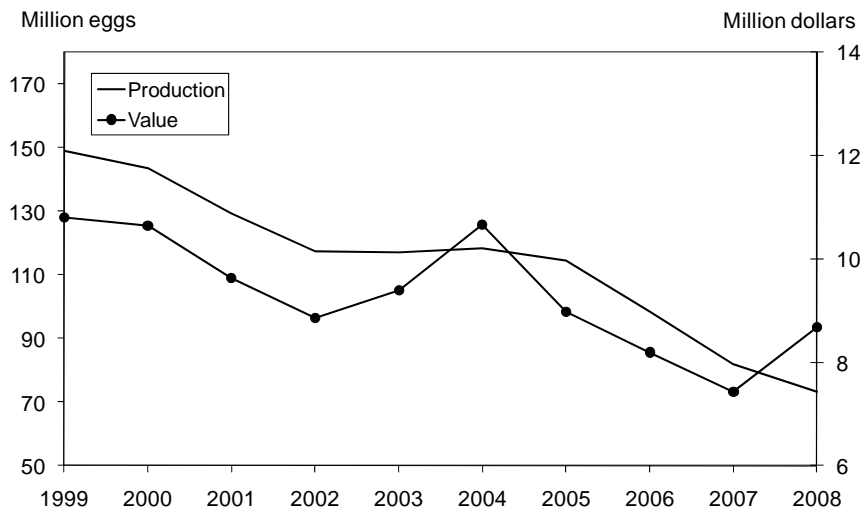


EGGS: December 1 Number of Operations, Number of Layers, Production, Price, and Value, by County, 2004-2008¹

Year	Operations		Average number of layers	Average production per layer	Production ²	Average price ³	Value of sales
	All	3,000 layers Or more					
	<i>Number</i>		<i>1,000 birds</i>	<i>Eggs</i>	<i>Million eggs</i>	<i>Cents per dozen</i>	<i>1,000 dollars</i>
State⁴							
2004	80	8	500	237	118.5	108.0	10,670
2005	80	8	498	230	114.5	94.1	8,979
2006	80	6	448	219	98.3	100.0	8,192
2007	80	5	378	216	81.8	109.0	7,428
2008	100	5	343	214	73.3	142.0	8,678
County:							
Hawaii/Kauai/Maui⁵							
2004	65	4	122	227	27.7	110.0	2,539
2005	65	4	112	220	24.8	110.0	2,274
2006	65	2	6	6	6	6	6
2007	65	1	6	6	6	6	6
2008	85	1	6	6	6	6	6
Honolulu							
2004	15	4	378	240	90.8	107.5	8,131
2005	15	4	386	232	89.7	89.5	6,705
2006	15	4	6	6	6	6	6
2007	15	4	6	6	6	6	6
2008	15	4	6	6	6	6	6

¹ Annual number of layers, egg production, sales, price, and value are for the 12-month period, December of the previous year through November of the following year. ² Home consumption less than 0.5 million eggs included. ³ Equivalent delivered processing plant. ⁴ Sum of county estimates may not add to State total due to rounding. ⁵ Kauai and Maui combined with Hawaii to avoid disclosure of individual operations. ⁶ Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

EGGS: Production and Value of Sales, State of Hawaii, 1999-2008





EGGS: Number of Layers, Production, and Price, State of Hawaii, 2004-2008

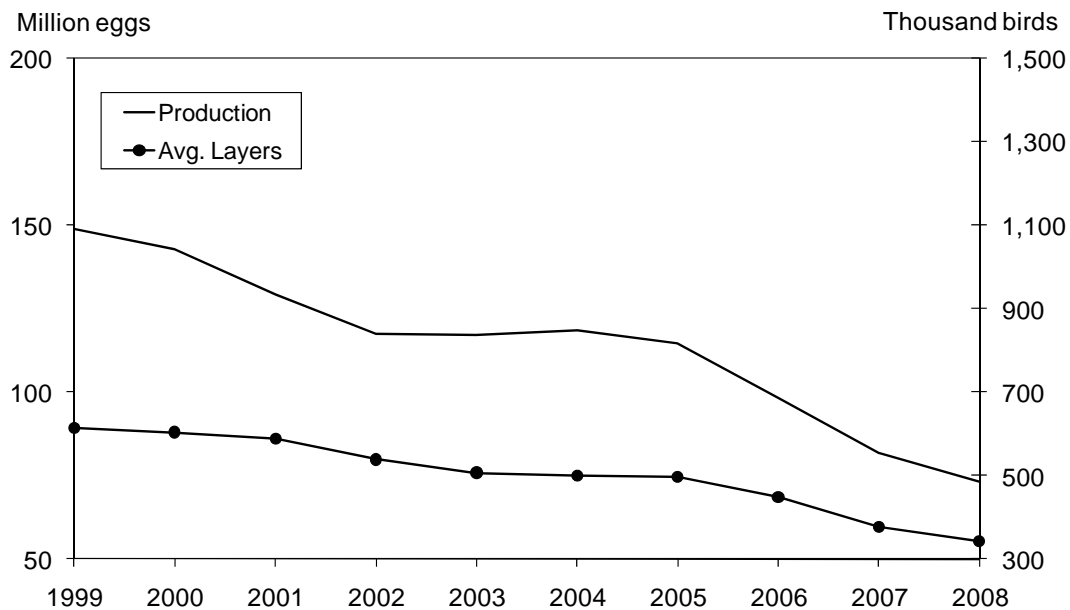
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average ¹
Average number of layers on hand during month – 1,000 layers													
2004	492	501	504	505	502	504	495	497	501	505	512	512	500
2005	511	500	506	504	486	488	487	491	496	496	495	479	498
2006	478	475	467	461	446	445	438	429	427	419	417	409	448
2007	403	395	388	380	367	368	369	368	366	365	362	360	378
2008	361	353	352	351	336	335	333	329	330	333	338		343
Egg production² – million eggs													
2004	9.7	9.3	10.5	10.3	10.2	9.7	10.0	10.0	9.5	9.9	9.7	10.1	118.5
2005	10.4	9.4	10.1	9.4	9.4	9.3	9.9	9.5	8.8	9.2	9.0	8.8	114.5
2006	8.8	7.9	8.7	8.3	8.3	8.2	8.6	8.2	7.6	7.6	7.3	7.4	98.3
2007	7.3	6.4	6.9	6.7	6.9	6.9	7.0	6.8	6.4	6.7	6.4	6.4	81.8
2008	6.5	6.1	6.5	6.1	6.1	6.0	6.3	6.1	5.8	5.8	5.6		73.3
Average farm price³ – cents per dozen													
2004	106.5	110.0	113.5	115.0	114.0	110.0	109.0	107.5	105.5	103.0	100.0	97.0	108.0
2005	99.5	98.0	94.0	94.0	88.5	88.5	91.5	89.5	87.0	102.5	98.5	106.0	94.1
2006	108.0	105.0	96.0	100.0	98.0	97.0	97.0	93.5	98.5	100.5	100.0	110.0	100.0
2007	106.0	113.0	110.0	108.0	109.0	104.0	104.0	100.0	108.0	116.0	121.0	132.0	109.0
2008	132.0	138.0	142.0	147.0	147.0	138.0	145.0	142.0	145.0	149.0	150.0		142.0

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

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

³ Equivalent delivered processing plant.

CHICKENS: Production and Average Number of Layers, State of Hawaii, 1999-2008





EQUINE, GOATS, HONEY AND BEESWAX, SHEEP

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

Year	Inventory	Number sold
<i>1,000 head</i>		
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
<i>1,000 head</i>		
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, 2004-2008

Year	Operations	Number of colonies	Yield per colony (honey)	Production		Average price ¹		Value of production	
				Honey (extracted)	Beeswax	Honey (extracted)	Beeswax	Honey (extracted)	Beeswax
	<i>Number</i>	<i>Thousands</i>	<i>Pounds</i>	<i>---- 1,000 pounds ----</i>		<i>---- Cents per pound ----</i>		<i>---- 1,000 dollars ----</i>	
2004	31	8	96	768	11	159	182	1,221	20
2005	34	9	131	1,179	10	143	182	1,686	18
2006	35	10	93	930	29	121	205	1,125	59
2007	40	10	92	920	6	170	294	1,564	18
2008	35	10	90	900	12	148	261	1,332	31

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

SHEEP AND LAMBS: January 1 Inventory by Class, State of Hawaii, 2004-2008

Year	All sheep and lambs	Breeding				Market			Lamb crop
		Total	Ewes 1 year +	Rams 1 year +	Replacement lambs	Total	Lambs	Sheep	
<i>1,000 head</i>									
2004	20	13	6	3	4	7	5	2	5
2005 ¹									
2006 ¹									
2007 ¹									
2008 ¹									

¹ Data not shown to avoid disclosure of individual operations.

AQUACULTURE: Number of Operations, Production, and Value, by County, 2004-2008

Year	Operations	Production		Value					Total
		Shellfish	Finfish	Shellfish	Finfish	Algae	Ornamental	Other ¹	
<i>Number</i>		<i>----- 1,000 pounds -----</i>		<i>----- 1,000 dollars -----</i>					
State									
2004	100	956	484	8,326	1,975	12,602	520	4,677	28,100
2005	70	² 2	² 2	² 8,326	² 1,975	14,637	² 520	² 4,677	28,398
2006	80	180	426	2,351	2,388	11,914	345	4,259	21,257
2007	70	65	533	520	4,583	10,941	2,424	6,642	25,110
2008	70	32	1,311	261	7,022	15,740	3,346	8,281	34,650
County:									
Hawaii									
2004	39	450	³ 3	5,593	³ 3	11,702	³ 3	³ 3	21,211
2005	25	² 2	² 2	² 5,593	² 3	³ 11,702	² 3	² 3	20,179
2006	25	103	³ 3	1,834	³ 3	3	³ 3	³ 3	17,470
2007	25	³ 3	³ 3	³ 1,834	³ 3	³ 3	³ 3	³ 3	20,013
2008	35	3	3	3	3	3	3	3	27,836
Honolulu/Kauai/Maui									
2004	61	506	³ 3	2,733	³ 3	900	³ 3	³ 3	6,889
2005	45	² 2	² 2	² 2,733	² 3	³ 900	² 3	² 3	8,219
2006	55	77	³ 3	517	³ 3	3	³ 3	³ 3	3,787
2007	45	³ 3	³ 3	³ 517	³ 3	³ 3	³ 3	³ 3	5,097
2008	35	3	3	3	3	3	3	3	6,814

¹ Includes seed stock, brood stock, and items not sold by weight which includes number count.

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

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





FARM LABOR: Number of Workers on Farms, Annual Averages and Quarterly Survey Week Totals, State of Hawaii, 2004-2008 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
2004				7,300	700	1,200	5,400
2005				7,000	700	1,100	5,200
2006				7,000	600	1,000	5,400
2007				6,500	⁴	⁴	⁴
2008	10,400	3,300	900	6,200	1,100	⁵	5,100
Survey week:							
January 6-12	10,500	3,200	900	6,400	1,150	⁵	5,250
April 6-12	10,400	3,300	800	6,300	1,150	⁵	5,150
July 6-12	10,500	3,400	900	6,200	1,150	⁵	5,050
October 12-18	10,200	3,400	900	5,900	1,000	⁵	4,900

¹ Annual averages are based on quarterly survey week estimates.

² Total farm workforce, self-employed operators, and unpaid workers estimates were discontinued from July 2002 to April 2007 due to a change in the National labor statistics program.

³ Unpaid farm workers include family members and others that worked 15 or more hours during the survey week.

⁴ Annual averages are not available because the January 2007 Agricultural Labor survey was not conducted.

⁵ Beginning April 2007, pineapple is combined with sugarcane to avoid disclosure of individual operations.

FARM LABOR: Annual Average Number of Hired Workers on Farms, by County, 2004-2008 ¹

Year	County				Total ²
	Hawaii	Honolulu	Kauai	Maui	
2004	2,700	2,200	650	1,800	7,300
2005	2,500	2,050	700	1,700	7,000
2006	2,650	1,950	700	1,750	7,000
2007 ³	2,500	1,650	650	1,700	6,500
2008	2,350	1,600	550	1,700	6,200

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.



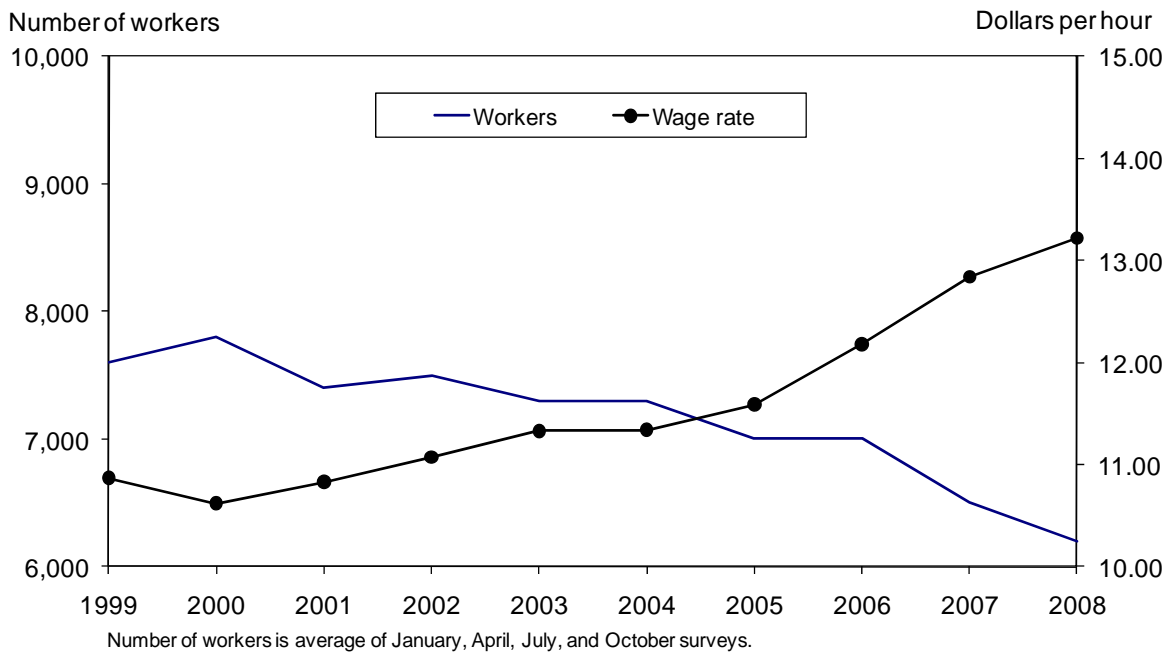
**FARM LABOR: Wage Rates by Type of Farm and Worker,
Annual and Quarterly Survey Week Averages, State of Hawaii, 2004-2008 ¹**

Year	All farms		Farms with 1-9 workers	
	Field and livestock	All hired workers	Field and livestock	All hired workers
<i>Dollars per hour</i>				
2004	9.75	11.34	8.99	10.29
2005	10.00	11.59	9.19	10.25
2006	10.32	12.18	9.46	10.78
2007 ²	10.86	12.84	10.18	11.17
2008	11.06	13.22	10.65	11.73
Survey week:				
January 6-12	10.92	13.04	10.22	11.46
April 6-12	10.91	13.28	10.42	11.76
July 6-12	11.21	13.33	11.10	11.86
October 12-18	11.21	13.24	10.90	11.39

¹ Annual wage rates are averages of the published wage rates for each survey week weighted by the number of hours worked during the week.

² The 2007 annual average wage rate for All Farms is based on modeled data for January and survey data for April, July, and October. The 2007 annual average wage rate for Farms With 1-9 Workers is based on survey data for April, July, and October.

**Hired Workforce and Average Wage Rate,
State of Hawaii, 1999-2008**





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	Accommodations ²	Entertainment	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	
<i>Number of ag-tourism farms</i>					
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	
<i>Number of ag-tourism farms</i>								
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		
<i>1,000 dollars</i>				
Hawaii	634	192	3,119	3,945
Honolulu	798	568	2,553	3,919
Kauai	185	99	893	1,177
Maui	329	1,160	835	2,324
Total	1,946	2,019	7,400	11,365

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

Theft by Category, State of Hawaii, 2004

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

Vandalism by Category, State of Hawaii, 2004

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



The Hawaii Field Office of USDA's National Agricultural Statistics Service estimates the value of agricultural commodities at the point in time when exported to the continental United States at

\$443.0 million during the 2008 calendar year which is up 7 percent from the revised 2007 estimated value. 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, 2004-2008

Commodity group	2004	2005	2006	2007	2008
<i>Thousand dollars</i>					
Cattle ¹	15,650	17,058	19,117	19,510	15,394
Ornamentals ²	46,477	³ 48,387	³ 48,217	53,174	42,926
Molasses ⁴	2,400	4,600	4,900	5,400	5,300
Raw sugar ⁵	91,700	87,900	74,800	70,900	66,100
Seed	62,600	77,330	103,040	140,710	176,600
Other ⁶	³ 192,248	³ 202,753	³ 177,104	122,494	136,706
Total Mainland U.S.	³411,075	³438,028	³427,178	412,188	443,026

¹ Value is based on live weight price multiplied by average live weight and multiplied by the total number of cattle and calves exported.

² Includes floriculture and nursery products.

³ Revised.

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.

The United States Department of Agriculture's Economic Research Service estimates the value of Hawaii agricultural exports to foreign countries at \$100.2 million during the 2008 federal fiscal year

(October 1, 2007 to September 30, 2008), up 13 percent from the revised previous year. Foreign agricultural exports from Hawaii for the 2007 year were revised from \$87.6 million to \$88.7 million.

Hawaii Agricultural Exports Outside the United States: Estimated Value, by Commodity Group, 2004-2008 ¹

Commodity group	2004	2005	2006	2007	2008
<i>Thousand dollars</i>					
Fruits and preps ²	46,400	54,200	49,800	38,700	43,500
Livestock ³	2,200	⁴ 2,100	⁴ 2,500	2,500	3,300
Tree nuts	10,900	7,600	7,600	7,900	8,500
Other ⁵	29,100	⁴ 31,300	⁴ 33,300	39,600	44,900
Total Foreign Countries	88,600	⁴95,200	93,200	88,700	100,200

¹ Federal fiscal year begins October 1 of the previous year. Totals may not add due to rounding.

² Includes fruit, juice, and fruit products.

³ Includes live animals and animal products.

⁴ Revised.

⁵ Includes sugar and tropical products, minor oilseeds, essential oils, beverages other than juice, nursery and greenhouse, seeds, feeds & fodder, wine, and misc. vegetable products.

Source: USDA-Economic Research Service (ERS).



DEFINITION OF TERMS

- ◆ **Agriculture** entails all operations performed on a “farm” in connection with planting, growing, and harvesting of crops; raising and feeding of livestock and poultry, and management. All operations in connection with preparation of farm products for market where the preparation does not alter the form of the product and transportation to the first delivery point. In Hawaii, the first delivery point is defined as the processing plant or packinghouse door or other receivers’ establishment for marketings on the island of production. For off-island marketings, the first delivery point is generally the shipper’s warehouse.
- ◆ **Ag-tourism** is a commercial enterprise on a working farm conducted for the enjoyment, education, and/or active involvement of the visitor, generating supplemental income for the farm. Activities such as producing and selling products directly from the farm, operating a bed and breakfast, conducting educational farm tours, offering horseback riding, festivals, concerts, and many other on-farm activities qualify as ag-tourism.
- ◆ **Farm** is a place with estimated (or expected) annual sales of agricultural products of at least \$1,000.
- ◆ **Crop Production** is the estimated amount of crop harvested and transferred at the first delivery point. Production estimates of vegetables and fruits include the quantity for fresh market and processing use.
- ◆ **Acreage In Crop** is the total acreage standing in a specific crop regardless of age or condition unless it has been declared abandoned by the operator.
- ◆ **Acreage Harvested** is the total area harvested or partially harvested during the reporting period. A permanent or semi-permanent planting that was harvested for only a portion of the year is counted in its entirety. Acreage lost before maturity due to natural or economic factors is not included. Acreage harvested and planted repeatedly during the year is counted each time.
- ◆ **Yield** is the average production per acre of merchantable quality harvested and sold or utilized. This is derived by dividing total production by harvested acres.
- ◆ **Livestock Operation** is defined as a place that has one or more head of the species on hand at any time during the year. It does not have to meet the definition of a farm.
- ◆ **Livestock Production** is the estimated amount of livestock and livestock products sold. This includes allowance for amounts used on farms where produced.
- ◆ **Farm Price** is a computed price to value agricultural production which may or may not reflect the average price at which actual transfer of ownership took place but which is comparable with the definition of “agriculture”. See “agriculture” for the definition of pricing point.
- ◆ **Market Supply** includes pounds of product sold in Hawaii to both Armed Forces and civilians (outshipments excluded). Direct inshipments to the Armed Forces are excluded.



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

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

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

- ◆ **List Sampling** is a common means of data collection. Lists of farm operators are well suited for the low cost collection of information by mail. Supplementary information is included within the frame that allows the use of efficient stratified sample designs. A major disadvantage of this method is the constant change in the list
- ◆ **Area Frame Sampling** can be used alone or in conjunction with the list frame. The frame consists of an aggregation of identifiable units of land or segments which may be sampled. The frame is complete and does not suffer the type of deterioration over time as does a list frame.
- ◆ **Multiple-Frame Sampling** is the use of two frames. It takes advantage of the best attributes of the area frame and the list frame, produces unbiased estimates, and allows measurement of the sampling error.
- ◆ **Objective Yield Surveys** provide information from direct counts, measurements and weights of the crop made from small plots in a probability selection of sample fields.
- ◆ **Administrative Data** is used in addition to producer surveys to establish final production and marketings. These include processor receipts, slaughter, vacuum cooler volume, and inspections. Unloads at Honolulu and wholesale prices, as reported by the Market Analysis and News Branch, are an important check data source.



Where can I get more statistics or economic analysis?

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

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

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

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How can I get state publications from NASS field offices?

→ 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
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Title and Description

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CROPS

AVOCADOS: Annual summary of acreage, yield, production, farm price, and value	June
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- Preliminary season estimates of acreage, yield, production, farm price, and value	December
- Final season estimates of acreage, yield, production, farm price, and value	August
GUAVAS: Annual summary of acreage, production, farm price, and value	June
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SEED CROP: Annual summary of acreage, outshipments of seed, and value	October
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OTHER PUBLICATIONS

CROP WEATHER: Weekly comments on weather and crop conditions. Rainfall data for selected stations	First working day of week
FARM LABOR: Quarterly report on number of workers by type and average wage rates.....	Feb., May, Aug., Nov.
STATISTICS OF HAWAII AGRICULTURE: Annual summary of the State's agricultural sector	October

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

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- Aquaculture: Moi, courtesy of Aquaculture Development, Hawaii Department of Agriculture, page 84.
- Floriculture: Dendrobium orchid, courtesy of Dr. Teresita D. Amore, Assistant Researcher at University of Hawaii at Manoa, CTAHR, Department of Tropical Plant and Soil Sciences, page 35.
- Fruits: Poha, courtesy of Love Family Farms, Ken Love, page 37.
- Ulu, courtesy of Love Family Farms, Ken Love, page 40.
- Vegetables: Lettuce, courtesy of the Market Development Branch, Hawaii Department of Agriculture, page 46.
- Oriental Squash, courtesy of the Market Development Branch, Hawaii Department of Agriculture, page 46.
- Daikon, courtesy of the Market Development Branch, Hawaii Department of Agriculture, page 55.
- Italian squash, courtesy of the Market Development Branch, Hawaii Department of Agriculture, page 63.
- Watermelons, courtesy of Aloun Farm, page 67.