

Hawaii Farm Facts



February 2010

Cattle: January 1 Inventory Up 1 Percent

In cooperation with



Inside this issue:

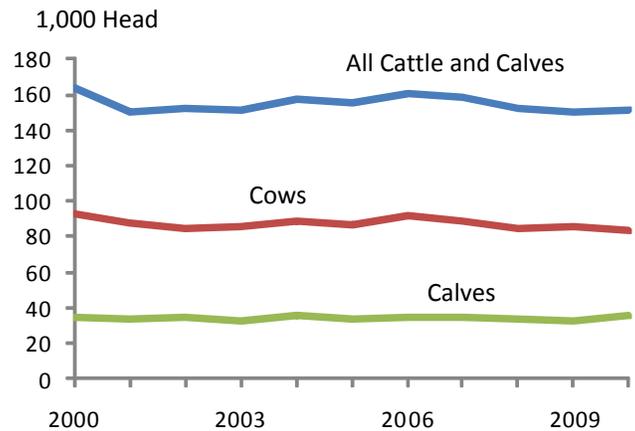
Cattle	1-3
Hogs	3
Taro.....	4
Macadamia Nuts.....	5
Vegetables.....	6
Census Facts	7
Hawaii	
Drought Monitor.....	8

All cattle and calves on Hawaii's ranches as of January 1, 2010 were estimated at 151,000 head, up 1 percent or 1,000 head from January 1, 2009.

The past year has been a trying time for ranchers with drought conditions persisting throughout the State. While a small number of fortunate ranchers have fared fairly well, other ranchers, especially on the Leeward side of the Big Island, have had to haul water to pastures and supplement feed for their cattle.

All cows and heifers that have calved, at 83,000 head, were down 3 percent from January 1, 2009. **Beef cows** made up 54 percent of the total herd at 81,200 head, down 4 percent from a year ago. **Milk cows** totaled 1,800 head

CATTLE: January 1 Inventory State of Hawaii, 2000-2010



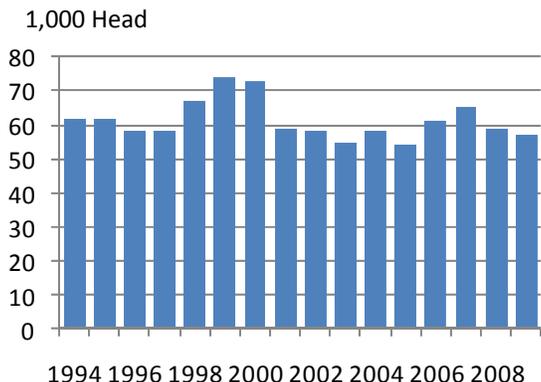
on January 1, 2010, up 13 percent from a year earlier.

Heifers weighing 500 pounds or more totaled 19,000 head on January 1, 2010, no change from January 1, 2009. The number of **beef cow replacements** (heifers weighing 500 pounds or more) declined 8 percent, or 1,000 head, to 12,000 head on January 1, 2010. **Other heifers** (greater than 500 pounds) increased by 1,000, or 20 percent, from the previous year. ■

CATTLE AND CALVES: January 1 Inventory by Sex, Class, and Weight, State of Hawaii, 2006-2010

Year	All cattle and calves	All cows and heifers that have calved			Heifers 500 pounds and over				Steers 500 lbs. and over	Bulls 500 lbs. and over	Steers, heifers, and bulls under 500 lbs.
		Total	Beef cows	Milk cows	Total	Beef cow replacements	Milk cow replacements	Other			
1,000 head											
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
2010	151	83	81.2	1.8	19	12	1	6	8	5	36

CATTLE: Cattle & Calf Marketings
State of Hawaii, 1994-2009



Cattle Marketings Down 3 Percent

Total **cattle marketings** during 2009 is estimated at 57,000 head, down 3 percent from 2008. **Farm slaughter** remained steady at 1,000 head for 2009. All **cattle and calf deaths** totaled 6,000 head in 2009, 1,000 head less than 2008 as farmers have become accustomed to drought conditions and have adapted ranching practices with no relief expected in the near future. ■

2009 Calf Crop Consistent

The 2009 calf crop was estimated at 65,000 head, maintaining the same number as the previous three years. ■

CATTLE AND CALVES: Inventory and disposition, State of Hawaii, 2005-2009

Year	Inventory beginning January 1	Calf crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory January 1 following year
1,000 head							
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
2009	150	65	*	57	1	6	151

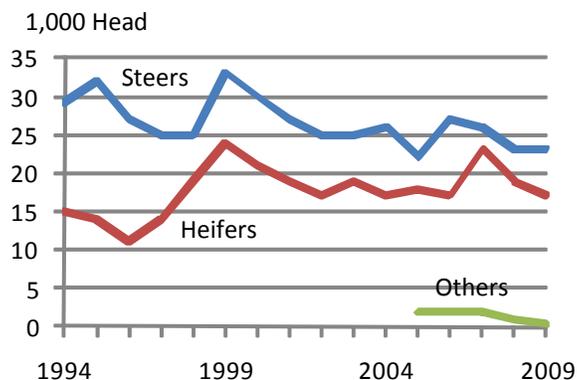
* = Less than 500.

Exports Down for Second Consecutive Year

Exports of cattle and calves totaled 41,000 head in 2009, down 5 percent from 2008. **Calves** (animals weighing less than 500 pounds) accounted for the bulk of exports at 38,000 head, or 93 percent of the 2009 total.

When 2009 exports are classified by sex, **steers** accounted for 56 percent of the total or 23,000 head, no change from the previous year. Exports of **heifers** totaled 18,000 head in 2009, down 5 percent from 2008. Exports of **other cattle**, mainly **bulls and cows**, totaled under 500 head. ■

CATTLE: Cattle & Calf Exports by Sex Class
State of Hawaii, 1994-2008



CATTLE AND CALVES: Exports, State of Hawaii, 2005-2009

Year	Total	By Weight Category		By Sex Class		
		Cattle ¹	Calves ²	Steers	Heifers	Others
1,000 head						
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
2009	41	3	38	23	18	*

NA = Not available. ¹ 500 pounds or more. ² 499 pounds or less. * Less than 500.

***CATTLE: Number and Weights of Total Marketing, Exports, and Local Slaughter by Months,
State of Hawaii, 2009 with 2008 and Year-to-date Comparisons***

Month	Total marketings ¹	Marketings							
		Exports				Commercial (Local) Slaughter ³			
		Total exports ²	Type of cattle		Average live weight	Number slaughter	Average live weight	Total live weight	Total dress weight ⁴
Steers	Heifers								
		Head			Pounds	Head	Pounds	1,000 pounds	
January	5,400	4,500	2,400	2,050	404	900	1,130	1,038	570
February	2,100	1,200	650	550	427	900	1,160	1,094	601
March	3,700	2,700	1,300	1,350	417	1,000	1,221	1,192	654
April	4,700	3,800	2,200	1,600	429	900	1,121	1,060	582
May	3,800	2,900	1,900	1,000	448	900	1,129	1,008	553
June	4,800	3,900	1,800	2,100	411	900	1,121	1,006	552
July	3,900	2,900	1,600	1,300	453	1,000	1,148	1,160	637
August	4,400	3,500	1,900	1,600	458	900	1,145	1,080	593
September	4,000	3,100	1,700	1,400	448	900	1,164	1,044	573
October	5,100	4,200	2,200	2,000	498	900	1,115	948	520
November	4,350	3,550	2,200	1,350	462	800	1,141	890	489
December	5,600	4,600	2,700	1,900	500	1,000	1,150	1,172	643
Year-to-date ⁵ :									
2009	51,850	40,850	22,550	18,200	449	11,000	1,154	12,692	6,967
2008	54,400	43,000	23,000	19,000	432	11,400	1,145	13,058	7,169
Change	-4.7	-5.0	-2.0	-4.2	3.9	-3.5	0.8	-2.8	-2.8

¹ Sum of commercial (local) slaughter and exports. Totals may not add due to rounding. ² Cattle and calves shipped out-of-State include: steers, heifers, and all other classes. All other classes not shown separately, but are included in total exports. ³ Excludes non-inspected farm slaughter; includes custom slaughter. ⁴ Estimate based on 54.9 dressing percentage. ⁵ Includes revisions made to previous months.

***HOGS: Number and Weights of Commercial Slaughter by Months,
State of Hawaii, 2009 with 2008 and Year-to-date Comparisons ¹***

Month	Total commercial slaughter	Average live weight	Total live weight	Total dressed weight ²
	Head	Pounds	1,000 pounds	
January	1,400	229	322	242
February	1,200	231	283	212
March	1,300	234	313	235
April	1,200	227	282	212
May	1,300	225	285	214
June	1,500	222	324	243
July	1,500	215	316	237
August	1,300	234	314	236
September	1,300	225	300	225
October	1,400	233	327	245
November	1,400	232	315	236
December	1,700	224	377	283
Year-to-date:				
2009	16,500	228	3,758	2,820
2008	19,200	225	4,324	3,243
Change	-14.1	1.3	-13.1	-13.0

¹ Excludes non-inspected farm slaughter; includes custom slaughter and live hog inshipments from the mainland for slaughter. ² Estimate based on 75.0 dressing percentage.

Taro: Production Down 7 percent from Last Year

The USDA, NASS, Hawaii Field Office estimates taro production at 4.0 million pounds in 2009, down 7 percent from 2008's estimate of 4.3 million pounds. The farm price decreased 2 percent to an average of 61.0 cents per pound, while the value of sales decreased 8 percent from 2008 to \$2.4 million.

Taro for processing totaled 3.9 million pounds in 2009, down 7 percent from 2008. The bulk of all processed taro, and taro in general, is made into poi. Other processed uses for taro include a

traditional Hawaiian dessert called *Kulolo* (a mixture of taro and coconut cream and/or shredded coconut meat) and chips.

Taro for poi production increased 17 percent for the fourth quarter of 2009. Taro millers used 370,000 pounds of taro in October, 14 percent higher than September. The amount of taro used for poi millings then dipped 4 percent to 355,000 pounds in November. Taro for poi millings then increased 13 percent to 400,000 pounds in December. ■



TARO: Number of Farms, Acreage, Marketing, Price, and Value, 2005-2009

Year	Farms	Acreage in crop ¹			Marketings			Farm price			Value of sales
		Poi taro	Chinese taro	Total	Fresh	Processed	Total	Poi taro	Chinese taro	All	
	Number	Acres			1,000 pounds			Cents per pound			1,000 dollars
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
2009	110	415	30	445	100	3,900	4,000	60.9	64.5	61.0	2,440

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

TARO: Poi Millings by Months, State of Hawaii, 5-year Average, 2008 and 2009

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	1,000 pounds												
5-year average ¹	351	332	349	319	326	330	374	400	381	400	371	407	4,340
2008	330	285	315	330	315	320	420	445	385	355	315	385	4,200
2009	315	285	295	305	285	325	320	320	325	370	355	400	3,900
	Percent												
Percent Changes:													
2009/5-year	90	86	85	96	87	98	86	80	85	93	96	98	90
2009/2008	95	100	94	92	90	102	76	72	84	104	113	104	93

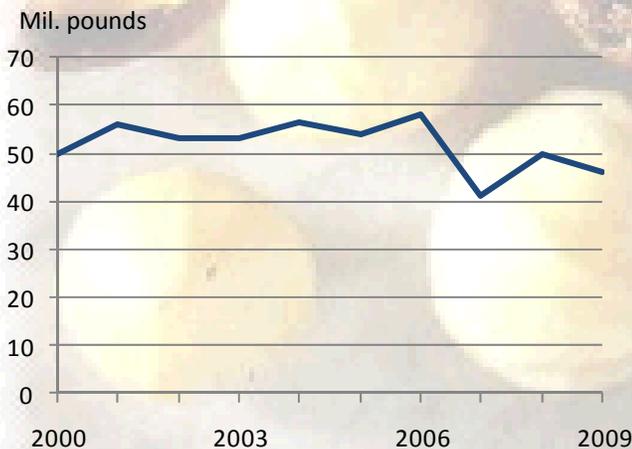
¹ Years: 2004-2008.

Macadamia Nuts: Smaller Crop Expected for 2009-2010

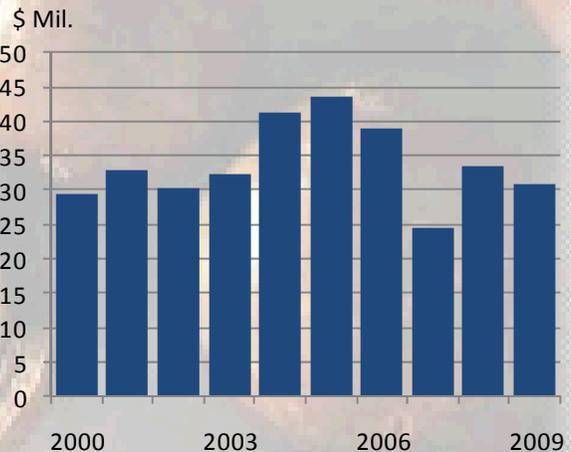
Hawaii's macadamia nut crop preliminary estimate for crop season 2009-2010 is 46.0 million pounds (net, wet-in-shell basis), declining 8 percent from the previous season. This is based on the fall survey of macadamia nut processors where approximately 60 percent of the crop was already harvested by mid-November.

Total in crop acreage and harvested acreage remained the same as the three previous seasons at 17,000 and 15,000 acres, respectively. Statewide, about 1.2 million trees were estimated for total acreage. Yields averaged 3,070 pounds per acre (net, wet-in-shell basis) or 260 pounds below last season.

MACADAMIA NUTS: Utilized Production (Net, wet in-shell basis) State of Hawaii, 2001-2010 Seasons



MACADAMIA NUTS: Farm Value (Net, wet in-shell basis) State of Hawaii, 2000-2009 Seasons



Farm value for the 2009-2010 crop is estimated at \$30.8 million (net, wet-in-shell basis), 8 percent lower than last season due to a smaller harvest. Farm price averaged 67.0 cents per pound, unchanged from the 2008-2009 season.

Macadamia nut growers and processors will be surveyed in June to determine final production and prices for the 2009-2010 season. Final season estimates will be published in July. ■

MACADAMIA NUTS: Number of Farms, Acreage, Yield, Production, Moisture, Price, and Value, State of Hawaii, 2005/2006 - 2009/2010 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
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 ⁷	570	17,000	15,000	2.7	48,000	41,000	21.3	21.5	51.3	60.0	24,600
2008-2009	570	17,000	15,000	3.3	60,000	50,000	20.5	21.4	55.8	67.0	33,500
2009-2010	570	17,000	15,000	3.1	54,000	46,000	20.1	20.5	57.1	67.0	30,820

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. ⁷ Revised.

Vegetables: Farm Value Higher for Selected Crops

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 following page.

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, 2008 for agriculture interest.

The top five volume-producing published crops during 2008 were unchanged from a year earlier. Head cabbage with 9.4 million pounds, was 10 percent below last year's production. Sweet potatoes were estimated at a record-high production of 8.1 million pounds, up 14 percent from 2007, the previous high. 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.

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

VEGETABLES AND MELONS: Acreage, Production, and Farm Value, State of Hawaii, 2007 and 2008 ¹

Name of Commodity	Harvested Acreage ²		Production		Farm Value	
	2007	2008	2007	2008	2007	2008
	Acres		1,000 pounds		1,000 dollars	
Beans, snap	130	120	700	700	721	749
Bittermelon	20	20	150	150	123	126
Broccoli	80	80	390	360	363	349
Cabbage, Chinese	270	220	6,300	5,600	1,890	1,960
Cabbage, head	440	410	10,400	9,400	3,016	2,820
Cabbage, mustard	105	95	1,400	1,300	882	910
Celery	25	20	510	360	224	137
Corn, sweet	450	400	2,400	2,200	1,488	1,232
Cucumbers	310	310	5,000	4,800	2,500	2,736
Eggplant	50	50	760	900	699	910
Lettuce ³	100	90	1,000	1,000	710	750
Onions, dry	160	160	1,400	1,400	1,680	1,610
Onions, green	135	125	1,400	1,600	1,596	1,984
Potatoes, sweet	420	470	7,100	8,100	3,621	4,780
Pumpkins	40	30	470	90	244	59
Romaine	100	90	1,200	1,000	804	590
Squash, Italian	180	170	1,200	1,480	804	888
Squash, oriental	40	40	500	350	220	217
Watercress	35	35	770	750	1,179	1,125
Total	3,090	2,935	43,050	41,540	22,764	23,932

¹ Only selected crops are shown separately. Beginning 2007, non-published vegetables and melons not shown separately to avoid disclosure of individual operations. ² Vegetables and melons: Acreage harvested; e.g. 1 acre planted and harvested 3 times during the year equals 3 harvested acres. ³ Includes head and semi-head (Manoa) lettuce.

2007 CENSUS OF AGRICULTURE

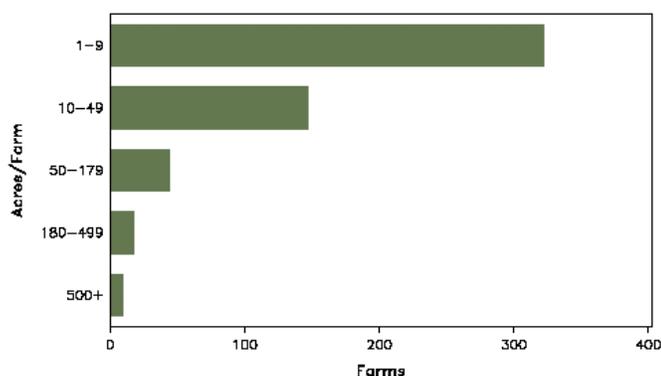
Hawaii Farms with Spanish, Hispanic, or Latino Operators Compared with All Farms

	Spanish, Hispanic, or Latino Operators	All Farms
Number of Farm Operators ¹	622	11,190
Number of Farms	539	7,521
Land in Farms	44,225 acres	1,121,329 acres
Average Size of Farm	82 acres	149 acres
Market Value of Products Sold	\$27,812,000	\$513,626,000
Crop Sales	\$24,524,000	\$429,916,000
Livestock Sales	\$3,288,000	\$83,711,000
Average Per Farm	\$51,599	\$68,292
Government Payments	\$115,000	\$2,378,000
Average Per Farm Receiving Payments	\$6,076	\$10,908

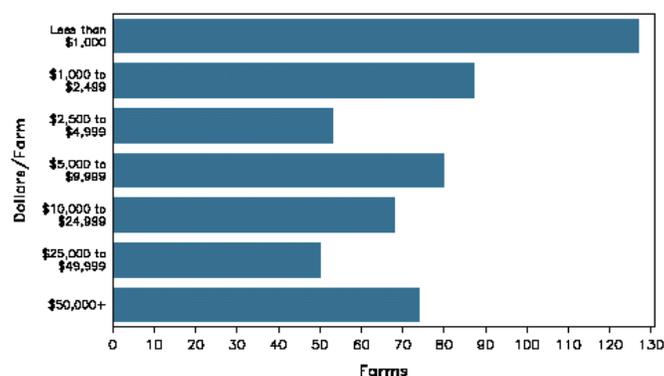
¹ Data were collected for a maximum of three operators per farm.

Farms with Spanish, Hispanic, or Latino Operators

Farms by Size



Farms by Economic Size



Hawaii Drought Monitor

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D5
Current	0.4	99.6	82.3	40.6	13.0	0.0
Last Week (02/16/2010 map)	0.4	99.6	79.0	39.1	13.0	0.0
3 Months Ago (12/01/2009 map)	31.1	68.9	53.4	28.8	5.1	0.0
Start of Calendar Year (01/05/2010 map)	31.1	68.9	53.8	36.9	6.4	0.0
Start of Water Year (10/06/2009 map)	18.8	81.2	51.4	32.8	6.7	0.0
One Year Ago (02/24/2009 map)	39.0	61.0	47.1	30.9	3.9	0.0

Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://drought.unl.edu/dm>

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Valid 7 a.m. EST



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