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Section 19

AGRICULTURE

This section presents statistics on agricultural land, farms, crops, livestock, dairy products, poultry, and aquaculture. Related information appears in Sections 6 (land use), 12 and 15 (agricultural employment and earnings), and 22 (food processing).

Important sources for data on agriculture include the *United States Census of Agriculture*, most recently published for 2007, the annual report on *Statistics of Hawaii Agriculture* issued by the Hawaii Agricultural Statistics Service, and data compiled by the former Hawaiian Sugar Planters' Association, now the Hawaii Agriculture Research Center, and the Aquaculture Development Program of the Hawaii State Department of Agriculture. Agricultural data for earlier years are summarized in *Historical Statistics of Hawaii*, Section 13. National statistics appear in Section 17 of the *Statistical Abstract of the United States: 2009*.

**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
2002 AND 2007**

Item	Unit	2002	2007
Farms	number	5,398	7,521
Land in farms	acres	1,300,499	1,121,329
Average size of farm	acres	241	149
Value of land and buildings: 1/			
Average per farm	dollars	842,875	1,146,213
Average per acre	dollars	3,507	7,688
Estimated market value of all machinery and equipment: 1/			
Total	\$1,000	186,163	304,997
Average per farm	dollars	35,568	40,666
Farms by size:			
1 to 9 acres		3,440	4,813
10 to 49 acres		1,309	1,972
50 to 179 acres		335	423
180 to 499 acres		146	154
500 to 999 acres		61	44
1,000 acres or more		107	115
Total cropland	farms	4,755	6,281
	acres	211,120	177,626
Harvested cropland	farms	4,522	6,044
	acres	109,461	103,120
Irrigated land	farms	2,231	2,810
	acres	69,194	58,635
Market value of agricultural products sold	\$1,000	533,423	513,626
Average per farm	dollars	98,819	68,292
Crops, including nursery and greenhouse crops	\$1,000	445,356	429,916
Livestock, poultry, and their products	\$1,000	88,067	83,711
Farms by value of sales:			
Less than \$2,500		1,407	2,932
\$2,500 to \$4,999		714	1,012
\$5,000 to \$9,999		916	996
\$10,000 to \$24,999		1,056	1,143
\$25,000 to \$49,999		506	557
\$50,000 to \$99,999		314	353
\$100,000 or more		485	528

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**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
2002 AND 2007 -- Con.**

Item	Unit	2002	2007
Farm by type of organization:			
Family or individual		4,629	6,363
Partnership		225	437
Corporation		472	617
Other-cooperative, estate or trust, institutional, etc		72	104
Operators by days worked off farm:			
None		2,786	1,903
Any		2,612	5,618
200 days or more		1,661	2,827
Operators by principal occupation:			
Farming		3,125	3,861
Other		2,273	3,660
Average age of principal operator	years	56.5	58.6
Total farm production expenses 1/	\$1,000	450,946	486,648
Livestock and poultry:			
Cattle and calves inventory	farms	748	1,142
	number	154,308	151,479
Beef cows	farms	578	853
	number	83,277	86,000
Milk cows	farms	27	15
	number	6,465	2,296
Cattle and calves sold	farms	550	713
	number	60,739	70,567
Hogs and pigs inventory	farms	204	225
	number	23,364	14,933
Hogs and pigs sold	farms	158	148
	number	33,231	20,569
Broilers and other meat-type chickens sold	farms	17	7
	number	881,112	(D)

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**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
2002 AND 2007 -- Con.**

Item	Unit	2002	2007
Selected crops harvested:			
Corn for grain	farms	12	14
	acres	4,383	3,115
	bushels	203,391	124,878
Sugarcane for sugar	farms	2	9
	acres	(D)	(D)
	tons	(D)	(D)
Pineapples harvested	farms	34	42
	acres	10,211	(D)
	tons	314,626	(D)
Vegetables harvested 2/	farms	633	901
	acres	6,554	6,845
Potatoes	farms	11	15
	acres	6	7
Sweet potatoes	farms	59	94
	acres	294	297
Land in orchards	farms	2,833	4,443
	acres	34,908	36,652

D Withheld to avoid disclosing data for individual farms.

1/ Data are based on a sample of farms.

2/ Data for 2002 do not include potatoes, sweet potatoes, or ginseng.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *2007 Census of Agriculture, Vol.1, Part 11, Hawaii* (February 2009), Table 1. Historical Highlights: 2007 and Earlier Census Years, pp. 7-8.

Table 19.02-- FARMS AND LAND IN FARMS, BY COUNTY: 2007

Item	Unit	Hawaii	Honolulu	Kauai	Maui
Farms	number	4,650	967	748	1,156
Land in farms	acres	683,819	60,408	151,534	225,568
Average size of farm	acres	147	62	203	195
Value of land and buildings: 1/					
Average per farm	dollars	1,022,976	1,106,333	1,259,559	1,601,950
Average per acre	dollars	6,956	17,710	6,217	8,210
Estimated market value of all machinery and equipment: 1/					
Average per farm	dollars	31,981	61,269	49,828	52,480
Farms by size:					
1 to 9 acres		2,865	699	483	766
10 to 49 acres		1,314	177	192	289
50 to 179 acres		289	58	28	48
180 to 499 acres		95	18	20	21
500 to 999 acres		27	2	4	11
1,000 acres or more		60	13	21	21
Total cropland	farms	3,909	793	604	975
	acres	81,837	18,896	22,336	54,557
Harvested cropland	farms	3,762	778	576	928
	acres	56,310	9,518	10,764	26,528
Irrigated land	farms	1,166	607	387	650
	acres	8,097	8,437	14,074	28,027
Market value of agricultural products sold	\$1,000	202,572	126,577	45,151	139,326
Average per farm	dollars	43,564	130,897	60,362	120,524
Crops, including nursery and greenhouse crops	\$1,000	150,251	106,836	40,771	132,058
Livestock, poultry, and their products	\$1,000	52,322	19,742	4,380	7,268

1/ Data are based on a sample of farms.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *2007 Census of Agriculture, Vol.1, Part 11, Hawaii* (February 2009), Table 1. County Summary Highlights: 2007, p.232.

**Table 19.03-- NUMBER OF FARMS, FARM ACREAGE, AND FARM
EMPLOYMENT: 1980 TO 2007**

Year	Number of farms 1/	Farm acreage 2/ (1,000)	Farm employment 3/		
			Self- employed farm operators	Unpaid family members	Hired workers
1980	4,300	1,970	3,400	1,100	10,550
1981	4,400	1,965	3,100	900	10,500
1982	4,500	1,960	2,600	1,300	13,000
1983	4,500	1,900	2,500	1,500	13,000
1984	4,600	1,850	2,200	1,300	11,800
1985	4,600	1,800	2,200	1,200	10,600
1986	4,600	1,750	2,050	1,200	9,700
1987	4,650	1,720	2,600	1,100	10,700
1988	4,650	1,720	2,600	1,100	10,300
1989	4,650	1,720	2,400	1,100	9,800
1990	4,700	1,680	2,500	1,000	9,600
1991	4,700	1,630	3,100	1,100	9,600
1992	4,800	1,590	3,100	1,300	9,500
1993	5,200	1,560	2,800	1,100	8,700
1994	5,300	1,530	2,700	1,200	8,100
1995	5,300	1,470	2,700	1,000	7,300
1996	5,400	1,440	2,700	1,000	7,400
1997	5,500	1,440	2,700	1,200	7,000
1998	5,500	1,440	2,700	1,200	7,400
1999	5,500	1,420	3,000	1,200	7,600
2000	5,500	1,380	3,100	1,000	7,800
2001	5,500	1,350	3,300	1,100	7,400
2002	5,500	1,320	4/ 3,000	4/ 1,100	7,500
2003	5,500	1,300	(NA)	(NA)	7,300
2004	5,500	1,300	(NA)	(NA)	7,300
2005	5,500	1,300	(NA)	(NA)	7,000
2006	5,500	1,300	(NA)	(NA)	7,000
2007	7,500	1,120	(NA)	(NA)	6,500

NA Not available.

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

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

3/ Working 15 or more hours per week.

4/ Beginning July 2002, estimates for self-employed and unpaid workers have been discontinued due to a change in the national labor statistics program. 2002 data are the average of January and April estimates.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual);
and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed April 20, 2009.

Table 19.04-- VALUE OF CROP AND LIVESTOCK SALES: 1980 TO 2007

[Thousands of dollars]

Year	All crops and livestock	Crops				Livestock
		All crops 1/	Sugar (unprocessed cane)	Pine-apples (fresh equiv.)	Other crops	
1980	634,101	552,877	385,100	76,596	91,181	81,224
1981	489,502	401,348	207,500	89,745	104,103	88,154
1982	507,268	428,860	230,800	94,364	103,696	78,408
1983	568,414	481,926	266,900	100,376	114,650	86,488
1984	550,517	463,502	256,200	89,928	117,374	87,015
1985	528,649	445,826	222,400	90,530	132,896	82,823
1986	564,717	481,312	233,800	99,720	147,792	83,405
1987	557,298	469,565	218,000	99,286	152,279	87,733
1988	573,962	485,293	209,900	107,402	167,991	88,669
1989	585,048	493,261	210,300	98,310	184,651	91,787
1990	595,030	506,586	213,800	106,365	186,421	88,444
1991	551,382	464,139	174,900	107,775	181,464	87,243
1992	520,227	431,958	153,700	102,100	176,158	88,269
1993	506,475	421,593	163,000	79,850	178,743	84,882
1994	503,780	427,150	160,100	78,890	188,160	76,630
1995	493,385	421,089	127,700	87,360	206,029	72,296
1996	495,688	428,671	108,100	95,914	224,657	67,017
1997	488,159	420,360	85,500	91,721	243,139	67,799
1998	493,342	420,634	87,300	92,776	240,558	72,708
1999	512,992	443,111	86,800	101,448	254,863	69,881
2000	499,771	431,482	62,200	101,530	267,752	68,289
2001	502,178	437,438	57,800	96,337	283,301	64,740
2002	514,338	453,400	64,300	100,616	288,484	60,938
2003	520,473	461,680	64,400	101,470	295,810	58,793
2004	523,957	459,702	61,500	83,104	315,098	64,255
2005	554,387	493,991	58,900	79,288	355,803	60,396
2006 2/	558,333	499,684	50,200	73,652	375,832	58,649
2007	553,857	499,416	47,600	(D)	3/ 451,816	54,441

D Data not shown separately to avoid disclosure of individual operations but combined and included in total crop value.

1/ Sum of individual commodities may not add to total. Forage crops' and forest product's value combined and included in total crop value.

2/ Revised from previous *Data Book*.

3/ Includes Pineapples.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed April 20, 2009.

**Table 19.05-- NUMBER OF FARMS, FARM ACREAGE, AND FARM
EMPLOYMENT, BY COUNTY: 1990 TO 2007**

County or island and year	Number of farms 1/	Farm acreage 2/ (1,000)	Farm employment 3/		
			Self- employed farm operators 4/	Unpaid family members 4/ 5/	Hired workers
State total:					
1990	4,600	1,710	2,500	1,000	9,600
1991	4,700	1,630	3,100	1,100	9,600
1992	4,800	1,590	3,100	1,300	9,500
1993	5,200	1,560	2,800	1,100	8,700
1994	5,300	1,530	2,700	1,200	8,100
1995	5,300	1,470	2,700	1,000	7,300
1996	4,600	1,590	2,700	1,000	7,400
1997	5,500	1,440	2,700	1,200	7,000
1998	5,500	1,440	2,700	1,200	7,400
1999	5,500	1,440	3,000	1,200	7,600
2000	5,500	1,440	3,100	1,000	7,800
2001	5,500	1,350	3,300	1,100	7,400
2002	5,500	1,320	3,000	1,100	7,500
2003	5,500	1,300	(NA)	(NA)	7,300
2004	5,500	1,300	(NA)	(NA)	7,300
2005	5,500	1,300	(NA)	(NA)	7,000
2006	5,500	1,300	(NA)	(NA)	7,000
2007	7,500	1,120	(NA)	(NA)	6,500
Hawaii:					
1990	2,650	1,005	1,550	600	3,500
1991	2,700	955	1,900	650	3,650
1992	2,800	929	1,850	750	3,750
1993	3,000	920	1,800	650	3,300
1994	3,100	920	1,700	650	3,000
1995	3,150	890	1,750	550	2,550
1996	2,700	929	1,800	600	2,600
1997	3,300	870	1,800	700	2,450
1998	3,300	870	1,750	650	2,550
1999	3,300	870	1,850	600	2,400
2000	3,300	870	1,800	550	2,700
2001	3,250	840	1,950	550	2,650
2002	3,250	830	1,700	600	2,450
2003	3,250	820	(NA)	(NA)	2,750
2004	3,250	820	(NA)	(NA)	2,700
2005	3,250	820	(NA)	(NA)	2,500
2006	3,250	820	(NA)	(NA)	2,650
2007	4,650	680	(NA)	(NA)	2,500

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**Table 19.05-- NUMBER OF FARMS, FARM ACREAGE, AND FARM
EMPLOYMENT, BY COUNTY: 1990 TO 2007 -- Con.**

County or island and year	Number of farms 1/	Farm acreage 2/ (1,000)	Farm employment 3/		
			Self- employed farm operators 4/	Unpaid family members 4/ 5/	Hired workers
Honolulu:					
1990	950	125	450	250	2,450
1991	950	100	650	300	2,300
1992	900	92	650	350	2,350
1993	900	90	550	300	2,300
1994	900	90	500	350	2,050
1995	900	85	500	250	1,900
1996	900	92	450	200	2,000
1997	900	80	500	300	1,900
1998	900	80	450	250	2,100
1999	900	80	500	300	2,100
2000	900	80	500	200	2,200
2001	850	70	550	250	2,300
2002	800	70	550	250	2,100
2003	800	70	(NA)	(NA)	2,150
2004	800	70	(NA)	(NA)	2,200
2005	800	70	(NA)	(NA)	2,050
2006	800	70	(NA)	(NA)	1,950
2007	950	60	(NA)	(NA)	1,650
Kauai:					
1990	400	225	200	50	1,150
1991	400	220	200	100	1,150
1992	400	214	200	100	1,100
1993	450	200	200	100	1,050
1994	450	200	200	50	1,050
1995	450	200	200	150	1,000
1996	400	214	200	100	1,000
1997	500	200	200	100	850
1998	500	200	200	100	800
1999	500	200	250	100	900
2000	500	200	300	50	950
2001	550	170	350	150	650
2002	600	160	250	100	750
2003	600	150	(NA)	(NA)	750
2004	600	150	(NA)	(NA)	650
2005	600	150	(NA)	(NA)	700
2006	600	150	(NA)	(NA)	700
2007	750	150	(NA)	(NA)	650

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**Table 19.05-- NUMBER OF FARMS, FARM ACREAGE, AND FARM
EMPLOYMENT, BY COUNTY: 1990 TO 2007 -- Con.**

County or island and year	Number of farms 1/	Farm acreage 2/ (1,000)	Farm employment 3/		
			Self- employed farm operators 4/	Unpaid family members 4/ 5/	Hired workers
Maui:					
1990	600	355	250	150	2,500
1991	650	355	350	150	2,550
1992	700	355	400	150	2,300
1993	850	350	300	100	2,050
1994	850	320	250	100	2,000
1995	800	295	300	100	1,850
1996	600	355	300	150	1,850
1997	800	290	300	100	1,850
1998	800	290	350	150	1,950
1999	800	290	450	200	2,200
2000	800	290	500	150	2,000
2001	850	270	500	150	1,800
2002	850	260	500	150	2,250
2003	850	260	(NA)	(NA)	1,650
2004	850	260	(NA)	(NA)	1,850
2005	850	260	(NA)	(NA)	1,700
2006	850	260	(NA)	(NA)	1,750
2007	1,150	230	(NA)	(NA)	1,700

NA Not available.

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

2/ Includes land not in crops and pasture, such as farm house lots, roads, woodlots, etc.

3/ Data not comparable among years shown due to changes in survey periods; sum of county estimates may not add due to rounding.

4/ Beginning July 2002, estimates for self-employed and unpaid workers have been discontinued due to a change in the national labor statistics program. 2002 data are the average of January and April estimates.

5/ Working 15 hours or more per week.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual) and
<http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed April 21, 2009.

**Table 19.06-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTY:
1991 TO 2007**

[Thousands of dollars]

County or island and year	All crops and livestock	Crops				Livestock
		All crops	Sugar (unpro- cessed cane)	Pine- apples 1/ (fresh equiv.)	Other crops 1/	
State total:						
1991	551,382	464,139	174,900	107,775	181,464	87,243
1992	520,227	431,958	153,700	102,100	176,158	88,269
1993	506,475	421,593	163,000	79,850	178,743	84,882
1994	503,780	427,150	160,100	78,890	188,160	76,630
1995	493,385	421,089	127,700	87,360	206,029	72,296
1996	488,303	422,568	108,100	95,914	218,554	65,735
1997	486,460	418,661	85,500	91,721	241,440	67,799
1998	493,442	420,734	87,400	92,776	240,558	72,708
1999	512,992	443,111	86,800	101,448	254,863	69,881
2000	499,730	431,482	62,200	101,530	267,752	68,248
2001	502,181	437,438	57,800	96,337	283,301	64,743
2002	514,338	453,400	64,300	100,616	288,484	60,938
2003	520,473	461,680	64,400	101,470	295,810	58,793
2004	523,957	459,702	61,500	83,104	315,098	64,255
2005	554,387	493,991	58,900	79,288	355,803	60,396
2006 2/	558,333	499,684	50,200	73,652	375,832	58,649
2007	553,857	499,416	47,600	(D)	451,816	54,441
Hawaii:						
1991	179,716	149,009	43,600	(3/)	105,409	30,707
1992	168,406	140,235	38,200	(3/)	102,035	28,171
1993	166,309	140,610	39,000	(3/)	101,610	25,699
1994	161,475	140,770	35,800	(D)	104,970	20,705
1995	146,427	128,564	12,200	(D)	116,364	17,863
1996	141,910	125,915	1,700	(D)	124,215	15,995
1997	149,965	130,887	-	(3/)	130,887	19,078
1998	142,522	121,676	-	(3/)	121,676	20,846
1999	144,470	121,939	-	(3/)	121,939	22,531
2000	154,240	128,161	-	(3/)	128,161	26,079
2001	160,258	134,380	-	(3/)	134,380	25,878
2002	155,651	128,426	-	(D)	128,426	27,225
2003	159,592	132,331	-	(D)	132,331	27,261
2004	174,388	143,972	-	(D)	143,972	30,416
2005 2/	(D)	164,772	-	(D)	(D)	(D)
2006 2/	183,177	152,302	-	(D)	(D)	30,875
2007	173,201	140,618	-	(D)	140,618	32,583

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**Table 19.06-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTY:
1991 TO 2007 -- Con.**

[Thousands of dollars]

County or island and year	All crops and livestock	Crops				Livestock
		All crops	Sugar (unpro- cessed cane)	Pine- apples 1/ (fresh equiv.)	Other crops 1/	
Honolulu:						
1991	171,378	129,602	30,600	62,075	36,927	41,776
1992	152,483	108,965	27,300	45,430	36,235	43,518
1993	162,086	119,906	29,700	54,923	35,283	42,180
1994	160,678	119,958	30,600	53,690	35,668	40,720
1995	162,578	123,074	21,000	62,585	39,489	39,504
1996	156,582	121,143	10,400	68,770	41,973	35,439
1997	142,256	107,347	-	63,426	43,921	34,909
1998	160,819	124,630	-	64,363	60,267	36,189
1999	179,324	142,407	-	73,123	69,284	36,917
2000	177,704	145,784	-	72,085	73,699	31,920
2001	177,462	146,504	-	69,222	77,282	30,958
2002	179,778	153,725	-	70,992	82,733	26,053
2003	178,852	154,228	-	71,029	83,199	24,624
2004	163,974	138,878	-	54,704	84,174	25,096
2005 2/	(D)	133,918	-	(D)	(D)	(D)
2006 2/	(D)	146,013	-	(D)	(D)	(D)
2007	(D)	139,486	-	(D)	139,486	(D)
Kauai:						
1991	57,912	53,018	42,800	(3/)	10,218	4,894
1992	46,549	41,679	32,600	(3/)	9,079	4,870
1993	46,145	42,143	31,600	(3/)	10,543	4,002
1994	54,438	49,975	35,200	(D)	14,775	4,463
1995	59,631	55,387	35,100	(D)	20,287	4,244
1996	65,988	61,814	38,800	(D)	23,014	4,174
1997	63,425	59,425	31,600	(3/)	27,825	4,000
1998	54,728	49,612	28,700	(3/)	20,912	5,116
1999	57,933	53,390	26,600	(3/)	26,790	4,543
2000	46,739	42,886	18,500	(3/)	24,386	3,853
2001	40,790	38,292	12,900	(3/)	25,392	2,498
2002	(D)	40,854	13,000	(D)	27,854	(D)
2003	(D)	47,077	13,500	(D)	33,577	(D)
2004	(D)	47,652	15,300	(D)	32,352	(D)
2005 2/	(D)	49,318	14,700	(D)	(D)	(D)
2006 2/	(D)	60,352	9,500	(D)	(D)	(D)
2007	(D)	65,372	9,800	(D)	55,572	(D)

Continued on next page.

**Table 19.06-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTY:
1991 TO 2007 -- Con.**

[Thousands of dollars]

County or island and year	All crops and livestock	Crops				Livestock
		All crops	Sugar (unpro- cessed cane)	Pine- apples 1/ (fresh equiv.)	Other crops 1/	
Maui:						
1991	142,376	132,510	57,900	45,700	28,910	9,866
1992	152,789	141,079	55,600	56,659	28,820	11,710
1993	131,935	118,934	62,700	24,890	31,344	13,001
1994	127,189	116,447	58,500	25,150	32,797	10,742
1995	124,748	114,064	59,400	24,775	29,889	10,684
1996	123,823	113,696	57,200	27,144	29,352	10,127
1997	126,266	116,453	53,900	28,295	34,258	9,813
1998	135,373	124,816	58,700	28,413	37,703	10,557
1999	131,265	125,375	60,200	28,325	36,850	5,890
2000	121,047	114,651	43,700	29,445	41,506	6,396
2001	123,671	118,262	44,900	27,115	46,247	5,409
2002	(D)	130,395	51,300	29,624	49,471	(D)
2003	(D)	128,043	50,900	30,441	46,702	(D)
2004	(D)	129,200	46,200	28,400	54,600	(D)
2005 2/	(D)	145,983	44,200	(D)	(D)	(D)
2006 2/	(D)	141,017	40,700	(D)	(D)	(D)
2007	(D)	153,940	37,800	(D)	116,140	(D)

D Data not shown to avoid disclosure of individual operations but included in State total.

1/ County data may fail to add exactly to State total.

2/ Revised from previous *Data Book*.

3/ Less than \$50,000.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual);
and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed April 21, 2009.

**Table 19.07-- ACREAGE IN CROP, NUMBER OF CROP FARMS, AND VALUE
OF CROP SALES: 1997, 2005 TO 2007**

Subject	1997	2005	2006	2007
Acreage in crop (1,000 acres):				
Sugarcane	68.7	40.1	42.1	39.3
Pineapples (land used for pineapple)	19.9	14.0	1/ 12.6	(D)
Vegetables and melons (harvested acreage) 2/	6.5	6.3	5.5	4.5
Fruits, excluding pineapples	8.0	6.2	6.1	6.5
Coffee	7.0	7.9	8.2	7.8
Macadamia nuts	20.2	18.3	17.0	17.0
All other crops	12.6	9.2	9.2	19.6
Number of crop farms:				
Sugar	4	2	2	2
Pineapples	15	30	30	40
Vegetables and melons 3/	1,000	600	610	650
Fruits (excluding pineapples)	1,043	1,265	1,245	1,300
Coffee	585	790	820	830
Macadamia nuts	700	650	1/ 570	525
Taro	160	110	1/ 105	105
Flowers and nursery products	670	955	930	935
Value of crop sales (\$1,000):				
Sugar (unprocessed cane)	85,500	58,900	50,200	47,600
Pineapples (fresh equivalent)	91,721	79,288	1/ 73,652	(D)
Vegetables, ginger root, herbs, and melons 4/	44,626	67,717	73,038	47,744
Fruits (excluding pineapples)	29,564	25,747	1/ 27,215	30,592
Coffee (parchment)	28,200	37,310	1/ 31,820	31,875
Macadamia nuts (in shell)	43,500	43,740	38,860	24,600
Taro	2,805	2,322	2,565	2,360
Seed crops	22,800	77,330	1/ 103,040	146,270
Flowers and nursery products	68,160	100,962	1/ 98,725	105,918

D Withheld to avoid disclosure of individual operations.

1/ Revised from previous *Data Book*.

2/ Includes ginger root, herbs in 1997, 2005 and 2006.

3/ Beginning 2007, ginger root, herbs, noni, kava ('awa) and others combined and included in the Total (non-duplicated).

4/ Includes noni, kava ('awa), and others.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed April 22, 2009.

**Table 19.08-- ACREAGE IN CROP, NUMBER OF CROP FARMS, AND VALUE
OF CROP SALES, BY COUNTY: 2007**

Subject	Hawaii	Honolulu	Kauai	Maui
Acreage in crop (1,000 acres):				
Sugarcane	-	-	6.9	32.4
Pineapples (land used for pineapple)	(D)	(D)	(D)	(D)
Vegetables and melons (harvested acreage) 1/	1.0	2.7	0.1	0.7
Fruits, excluding pineapples	4.3	0.9	0.7	0.6
Coffee	3.8	(D)	(D)	(D)
Macadamia nuts	(D)	(D)	(D)	(D)
All other crops	3.0	7.3	2.5	6.8
Number of crop farms:				
Sugar	-	-	1	1
Pineapples	18	1	12	9
Vegetables and melons 2/	230	230	70	120
Fruits (excluding pineapples)	690	160	190	260
Coffee	790	3	7	30
Macadamia nuts	500	5	10	10
Taro	25	15	45	20
Flowers and nursery products	430	250	75	180
Value of crop sales (\$1,000):				
Sugar (unprocessed cane)	-	-	9,800	37,800
Pineapples (fresh equivalent)	(D)	(D)	(D)	(D)
Vegetables, ginger root, herbs and melons 3/	10,140	29,120	2,250	6,234
Fruits (excluding pineapples)	22,837	4,961	1,060	1,734
Coffee (parchment)	25,350	(D)	(D)	(D)
Macadamia nuts (in shell)	(D)	(D)	(D)	(D)
Taro	173	(D)	1,624	(D)
Seed crops	(D)	(D)	(D)	(D)
Flowers and nursery products	51,755	38,373	3,374	12,416

D Withheld to avoid disclosure of individual operations.

1/ Includes ginger root and herbs, 2003-2006. Beginning 2007, ginger root and herbs are not included.

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

3/ Includes noni, kava ('awa), and others.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed April 27, 2009.

Table 19.09-- SPECIALTY CROPS, FRUITS, AND VEGETABLES: 2007

[Data shown for crops with sales in excess of \$1,000,000]

Crop	Acreage harvested	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales (\$1,000)
Specialty crops:					
Coffee (2007-08)	6,400	1.2	7,500	425.0	31,875
Ginger root (2007-08)	60	30.0	1,800	160.0	2,880
Fresh herbs	(X)	(X)	5,000	(X)	8,506
Seed crops (2007-08)	6,010	(X)	16,140	(X)	146,270
Macadamia nuts (2007-08)	15,000	2.7	48,000	60.0	24,600
Fruits:					
Rambutan	265	(X)	824	239.0	1,969
Bananas	1,300	19.7	25,600	41.0	10,496
Papayas	1,310	25.5	33,400	39.2	13,094
Vegetables:					
Cabbage, Chinese	270	23.3	6,300	30.0	1,890
Cabbage, head	440	23.6	10,400	29.0	3,016
Cucumbers	310	16.1	5,000	50.0	2,500
Onions, dry	160	8.8	1,400	120.0	1,680
Onions, green	135	10.4	1,400	114.0	1,596
Peppers, green	160	11.3	1,800	69.0	1,242
Sweet potatoes	350	15.1	5,300	51.0	2,703
Taro	1/ 380	(X)	4,000	59.0	2,360
Tomatoes	740	19.3	14,300	69.0	9,867
Watermelons	540	24.3	13,100	30.0	3,930

X Not applicable.

1/ Acreage in crop.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual);
and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed April 23, 2009.

**Table 19.10-- SUGARCANE ACREAGE, BY TYPE OF IRRIGATION:
1993 TO 2006**

Year	Total cane land	Irrigated cane land		Unirrigated cane land
		Drip	Furrow or overhead	
1993	121,322	74,557	11,595	35,170
1994	98,413	68,547	10,753	19,113
1995	81,957	62,462	8,416	11,079
1996	68,816	56,147	7,511	5,158
1997	67,820	55,585	7,115	5,120
1998	67,585	55,828	6,620	5,137
1999	60,758	51,234	4,602	4,922
2000	43,821	43,821	-	-
2001	50,410	50,410	-	-
2002	47,476	47,476	-	-
2003	47,733	47,733	-	-
2004	43,465	43,465	-	-
2005	40,145	40,145	-	-
2006	42,080	42,080	-	-

Source: Hawaii Agriculture Research Center, records.

**Table 19.11-- LIVESTOCK INVENTORY, 1984 TO 2007, AND BY
COUNTY, 2007**

[In thousands]

Year and county	All cattle and calves 1/	Milk cows 1/	Hogs and pigs 2/	Chickens (excluding broilers) 2/	Bee colonies
1984	221	12	47	1,195	9
1985	209	11	55	1,210	9
1986	199	12	50	1,185	9
1987	203	12	47	1,212	9
1988	212	12	43	1,217	9
1989	205	11	39	1,216	9
1990	215	11	36	1,183	10
1991	200	10	34	1,213	10
1992	178	11	35	1,109	9
1993	165	11	33	1,012	9
1994	178	11	35	981	9
1995	174	10	34	933	8
1996	172	10	28	876	8
1997	180	9	29	863	9
1998	173	9	29	747	8
1999	164	9	28	721	8
2000	150	7	26	722	7
2001	152	7	27	659	8
2002	151	7	24	625	7
2003	156	6	23	600	7
2004	155	6	22	598	8
2005	161	5	19	547	9
2006	158	4	16	470	10
2007	152	2	15	398	10
2007 3/					
Hawaii	109.1	1.8	1.1	(D)	(NA)
Honolulu	5.6	0.4	9.2	(D)	(NA)
Kauai	12.5	(4/)	2.0	(D)	(NA)
Maui	24.8	0.1	2.7	(D)	(NA)

NA Not available.

D Withheld to avoid disclosing data for individual operations.

1/ As of January 1 of the following year.

2/ As of December 1.

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

4/ Equals less than 50.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual);
and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed March 4, 2009.

Table 19.12-- NUMBER OF LIVESTOCK OPERATIONS AND VALUE OF LIVESTOCK SALES: 2003 TO 2007

Subject	2003	2004	2005	2006	2007
Number of livestock operations, Dec. 31:					
Cattle 1/	750	800	800	800	1,100
Hogs	210	250	230	230	230
Milk	30	30	30	30	15
Eggs	80	80	80	80	80
Honey	29	31	34	35	40
Value of livestock sales (\$1,000):					
Cattle 2/	17,192	22,534	22,548	26,452	26,196
Hogs 2/	4,345	4,463	4,553	4,158	3,682
Milk	21,449	20,175	18,387	14,508	9,673
Eggs	9,396	10,670	8,979	8,192	7,428
Honey	1,157	1,221	1,686	3/ 1,125	1,454

1/ Includes beef, dairy, and dairy replacement operations.

2/ Excludes interfarm sales; includes out-of-state sales of slaughter cattle and feeder calves.

3/ Revised from previous *Data Book*.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed April 23, 2009.

**Table 19.13-- NUMBER OF LIVESTOCK OPERATIONS AND VALUE OF
LIVESTOCK SALES, BY COUNTY: 2007**

Subject	Hawaii	Honolulu	Kauai	Maui
Number of livestock operations, Dec. 31:				
Cattle 1/	730	60	130	180
Hogs	70	70	30	60
Milk	7	3	1	4
Eggs	37	15	8	20
Honey	18	14	5	3
Value of livestock sales (\$1,000):				
Cattle 2/	19,676	942	1,318	4,260
Hogs 2/	185	1,974	638	885
Milk	(D)	(D)	(D)	(D)
Eggs	(D)	(D)	(D)	(D)

D Withheld to avoid disclosure of individual operations.

1/ Includes beef, dairy, and dairy replacement operations.

2/ Excludes interfarm sales; includes out-of-state sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual);
and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed April 23, 2009.

**Table 19.14-- FLORICULTURE AND NURSERY PRODUCTS, 1997 TO 2007,
AND BY COUNTY, 2003 TO 2007**

County and year	Number of farms	Growing area					Whole-sale value (\$1,000)
		Total (acres)	Green-house (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
State total:							
1997	670	2,158	2,805	23,885	10	1,535	66,655
1998	745	2,679	2,810	24,200	9	2,050	73,207
1999	765	2,712	2,910	25,695	15	2,040	75,725
2000	735	2,719	3,235	25,180	7	2,060	82,684
2001	790	3,049	3,175	26,660	9	2,355	88,597
2002	870	3,648	3,030	30,415	10	2,870	95,715
2003	865	3,890	2,540	27,465	16	3,185	95,601
2004	920	3,830	2,620	26,560	-	3,160	95,178
2005	955	3,988	2,095	27,015	-	3,320	100,962
2006 1/	930	4,052	2,180	25,115	-	3,425	98,725
2007	935	4,075	2,160	25,050	-	3,450	105,918
County, 2003:							
Hawaii	395	2,408	1,895	21,295	16	1,860	50,206
Honolulu	230	701	230	5,035	-	580	31,092
Kauai	80	180	65	360	-	170	3,067
Maui	160	601	350	775	-	575	11,236
County, 2004:							
Hawaii	425	2,404	1,990	20,840	-	1,880	50,414
Honolulu	235	638	255	4,660	-	525	32,173
Kauai	80	234	90	310	-	225	3,056
Maui	180	554	285	750	-	530	9,535
County, 2005:							
Hawaii	425	2,455	1,445	20,980	-	1,940	53,449
Honolulu	265	774	275	4,715	-	660	32,399
Kauai	80	210	110	525	-	195	3,204
Maui	185	549	265	795	-	525	11,910
County, 2006: 1/							
Hawaii	410	2,580	1,450	19,875	-	2,090	50,527
Honolulu	250	707	255	3,985	-	610	33,438
Kauai	75	232	205	530	-	215	2,937
Maui	195	533	270	725	-	510	11,823
County, 2007:							
Hawaii	430	2,588	1,605	20,080	-	2,090	51,755
Honolulu	250	664	215	3,895	-	570	38,373
Kauai	75	213	90	480	-	200	3,374
Maui	180	610	250	595	-	590	12,416

1/ Revised from previous *Data Book*.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary*, various issues. See also <<http://www.nass.usda.gov/hi/flower/flower.pdf>> accessed November 18, 2008.

**Table 19.15-- FLORICULTURE AND NURSERY PRODUCTS, BY
COMMODITY: 2007**

[Shown for commodities with value of sales over \$500,000 and growers with total sales of
\$10,000 or more]

Commodity	Number of farms having sales	Number sold		Value of sales (\$1,000)
		Unit	Number	
Selected cut flowers:				
Anthuriums	57	1,000 dozens	658	4,840
Ginger, red	56	1,000 dozens	115	1,003
Heliconias	57	1,000 dozens	67	816
Proteas	27	1,000 stems	1,865	2,094
Orchids:				
Sprays: Dendrobiums	37	1,000 dozens	320	2,495
Sprays: Oncidiums 1/	22	1,000 dozens	54	644
Potted: Dendrobiums 2/	61	1,000 pots	917	5,062
Potted: Oncidiums 1/	45	1,000 pots	568	3,686
Potted: Phalaenopsis	19	1,000 pots	138	1,020
Lei or individual flowers:				
Dendrobiums	21	1,000 blooms	14,800	503
Plumerias	15	1,000 blooms	12,300	486
Foliage:				
Potted, dracaena	27	(X)	(NA)	5,949
Potted, palms	41	(X)	(NA)	8,753
Ti leaves, cut	39	1,000 leaves	5,000	614
Potted flowering plants:				
Anthuriums	14	1,000 pots	104	471
Poinsettias	22	1,000 pots	315	1,418
Plant rentals	40	(X)	(NA)	6,513
Landscape plants 3/	132	(X)	(X)	21,449

X Not applicable.

NA Not available.

1/ Prior to 2007, formerly called Oncidium.

2/ Prior to 2007, included in bud/bloom and community pots. Beginning 2007, includes in bud/bloom.

3/ Beginning 2007, excludes sod.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary*, various issues. See also <<http://www.nass.usda.gov/hi/flower/flower.pdf>> accessed November 18, 2008.

**Table 19.16-- OUT-OF-STATE SALES OF FLORICULTURE AND NURSERY
PRODUCTS: 2002 TO 2007**

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

Type	2002	2003	2004	2005	2006	2007
Total sales	47,870	50,940	47,585	1/ 49,430	1/ 49,325	54,230
Anthuriums, cut	7,700	8,500	6,475	6,210	1/ 6,935	6,905
Dendrobiums, sprays	3,400	3,600	3,900	3,900	3,100	3,200
Foliage, potted	10,700	11,000	11,300	13,200	11,600	14,100
Heliconias	1,040	1,200	1,200	1,000	1,100	1,100
Dendrobiums, potted	4,510	4,590	4,645	4,335	3,760	3,100
Proteas	1,620	1,800	1,715	2,000	1,900	2,040
Other flowers, nursery products	18,900	20,250	18,350	1/ 18,785	1/ 20,930	23,785

1/ Revised from previous *Data Book*.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary*, (July 8, 2008), p. 14. See also <<http://www.nass.usda.gov/hi/flower/flower.pdf>> accessed February 19, 2009.

Table 19.17-- AGRICULTURAL LABOR: HIRED WORKERS ON FARMS BY TYPE OF FARM, 1993 TO 2008

[Figures are averages based on January, April, July, and October surveys]

Year	Hired workers 1/	Hired workers by type of farm		
		Sugar	Pineapple	Other
1993	8,700	2,500	1,400	4,800
1994	8,100	2,300	1,300	4,500
1995	7,300	1,700	1,200	4,400
1996	7,400	1,400	1,200	4,800
1997	7,000	1,200	1,300	4,500
1998	7,400	1,200	1,200	5,000
1999	7,600	1,200	1,300	5,200
2000	7,800	1,000	1,200	5,600
2001	7,400	800	1,200	5,500
2002	7,500	900	1,300	5,400
2003	7,300	700	1,200	5,300
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 2/	6,500	(NA)	(NA)	(NA)
2008	6,200	(3/)	(3/)	5,100

NA Not available.

1/ Sum of hired workers by type of farm may not add to hired workers total due to rounding.

2/ The January 2007 Farm Labor Survey was not conducted. Therefore, the 2007 annual average for hired workers is based on modeled data for January and survey data for April, July, and October.

3/ 1,100 for Sugarcane and Pineapple. Data combined to avoid disclosure of individual operations.

Source: Hawaii Agricultural Statistics Service, *Hawaii Agricultural Labor*, Quarterly, various issues, <http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Miscellaneous/aglabor.pdf> accessed March 3, 2009.

**Table 19.18-- GENERAL EXCISE TAX BASE FOR PRODUCING:
1996 TO 2008**

[In thousands of dollars. Data are on a cash basis accounting. "Producing" refers to the raising and production of agricultural products in their natural state, the production of natural resource products, fishing, and aquaculture]

Year 1/	Amount	Year 1/	Amount
1996	479,009	2003	543,561
1997	505,557	2004	550,949
1998	478,201	2005	591,329
1999	501,501	2006	445,679
2000	519,272	2007	475,827
2001	499,896	2008	448,975
2002	522,418		

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release) see also <http://www.state.hi.us/tax/a5_3txcolrpt.htm>.

**Table 19.19-- AGRICULTURAL CHEMICALS USED, INCLUDING FERTILIZER:
2002 AND 2007**

Chemicals used	Unit	2002	2007
Any fertilizer, manure, or chemicals used 1/ Manure used	farms	(NA)	5,742
	farms	730	705
	acres on which used	3,812	3,859
Any fertilizer or chemical expense 2/ 3/	farms	(NA)	6,158
	\$1,000	(NA)	47,046
Commercial fertilizer, lime and soil conditioners used 2/	farms	(NA)	4,785
	acres on which used	127,996	116,530
Commercial fertilizer, lime and soil conditioners expenses	farms	4,326	5,653
	\$1,000	17,791	29,807
Chemical expenses	farms	3,627	4,207
	\$1,000	16,134	17,238
Chemicals used to control Insects	farms	1,840	2,012
	acres on which used	41,616	33,474
Nematodes	farms	275	253
	acres on which used	8,169	6,889
Diseases in crops and orchards	farms	800	836
	acres on which used	30,824	9,716
Weeds, grass, or brush	farms	2,820	3,053
	acres on which used	101,258	98,108
Chemicals used on crops to control growth, thin fruit, ripen, or defoliate	farms	216	255
	acres on which used	26,378	15,677

NA Not available.

1/ 2002 data are based on a sample of farms.

2/ 2002 farm count data are not comparable due to calculation change.

3/ 2002 expense data are not comparable due to calculation change.

Source: U.S. Department of Agriculture, *2002 Census of Agriculture, Hawaii*, (June 2004), p. 32 and
U.S. Department of Agriculture, *2007 Census of Agriculture, Hawaii*, (February 2009), p. 34.

Table 19.20-- AQUACULTURE INDUSTRY OPERATIONS: 1970 TO 2007

Year	Number of operations, Dec. 31	Acreage, Dec. 31	Production (1,000 lb.)	Value (\$1,000)
1970	2	193	20	11
1971	2	193	17	17
1972	2	193	18	23
1973	3	203	34	34
1974	4	213	41	136
1975	10	234	82	178
1976	14	235	94	210
1977	25	246	123	281
1978	25	320	178	525
1979	23	493	246	1,531
1980	37	575	320	1,655
1981	41	547	338	1,868
1982	44	643	551	2,625
1983	42	496	345	1,605
1984	47	474	441	2,300
1985	48	465	583	2,780
1986	44	444	1,015	3,549
1987	45	437	1,689	6,263
1988	44	477	1,170	5,560
1989	46	479	1,264	6,835
1990	53	489	1,452	9,241
1991	71	595	1,207	6,884
1992	83	615	1,272	7,134
1993	90	640	1,296	7,469
1994	105	605	990	9,036
1995	107	635	1,410	13,307
1996	117	695	1,992	15,656
1997	110	(NA)	(NA)	16,600
1998	105	(NA)	2,243	16,620
1999	100	(NA)	2,404	18,102
2000	85	(NA)	2,898	22,170
2001	80	(NA)	(NA)	22,200
2002	70	(NA)	(NA)	25,180
2003	85	(NA)	(NA)	27,650
2004	100	(NA)	(NA)	28,100
2005	70	(NA)	(NA)	28,398
2006	80	(NA)	(NA)	21,257
2007	70	(NA)	(NA)	25,250

NA Not available.

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program (1970-1997), records and Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual) and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> (1998-2007) accessed February 26, 2009.

**Table 19.21-- AQUACULTURE OPERATIONS, ACREAGE, PRODUCTION,
AND VALUE, BY COUNTY: 2006 AND 2007**

Subject	State total	Hawaii	Honolulu	Kauai	Maui
2006					
Number of operations	80	25	(D)	(D)	(D)
Production (1,000 lb.)	(NA)	(NA)	(NA)	(NA)	(NA)
Shellfish 1/	180	103	(D)	(D)	(D)
Finfish	426	(D)	(D)	(D)	(D)
Algae	(X)	(X)	(X)	(X)	(X)
Value (\$1,000)	21,257	17,470	(D)	(D)	(D)
Shellfish	2,351	1,834	(D)	(D)	(D)
Finfish	2,388	(D)	(D)	(D)	(D)
Algae	11,914	(D)	(D)	(D)	(D)
Other 2/	4,604	(D)	(D)	(D)	(D)
2007					
Number of operations	70	25	(D)	(D)	(D)
Production (1,000 lb.)	(NA)	(NA)	(NA)	(NA)	(NA)
Shellfish 1/	65	(D)	(D)	(D)	(D)
Finfish	523	(D)	(D)	(D)	(D)
Algae	(X)	(X)	(X)	(X)	(X)
Value (\$1,000)	25,250	20,155	(D)	(D)	(D)
Shellfish	520	(D)	(D)	(D)	(D)
Finfish	4,536	(D)	(D)	(D)	(D)
Algae	10,941	(D)	(D)	(D)	(D)
Other 2/	9,253	(D)	(D)	(D)	(D)

NA Not available.

D Not shown to avoid disclosure of individual operations, but combined and included in the state total.

X Not applicable.

1/ Some shellfish products sold by pieces, pounds not given.

2/ Non-food products: ornamental fish, seedstock, brood stock, and other. Items not sold by weight.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); and

<http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed February 26, 2009.