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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: 2012*.

**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
2007 AND 2012**

Item	Unit	2007	2012
Farms	number	7,521	7,000
Land in farms	acres	1,121,329	1,129,317
Average size of farm	acres	149	161
Value of land and buildings 1/			
Average per farm	dollars	1,146,213	1,461,342
Average per acre	dollars	7,688	9,058
Estimated market value of all machinery and equipment 1/			
Total	\$1,000	304,997	307,994
Average per farm	dollars	40,666	43,999
Farms by size			
1 to 9	acres	4,813	4,412
10 to 49	acres	1,972	1,752
50 to 179	acres	423	480
180 to 499	acres	154	172
500 to 999	acres	44	57
1,000 or more	acres	115	127
Total cropland	farms	6,281	5,551
	acres	177,626	174,042
Harvested cropland	farms	6,044	5,293
	acres	103,120	99,031
Irrigated land	farms	2,810	2,498
	acres	58,635	81,813
Market value of agricultural products sold	\$1,000	513,626	661,347
Average per farm	dollars	68,292	94,478
Crops, including nursery and greenhouse crops	\$1,000	429,916	538,873
Livestock, poultry, and their products	\$1,000	83,711	122,474
Farms by value of sales			
Less than \$2,500		2,932	2,130
\$2,500 to \$4,999		1,012	902
\$5,000 to \$9,999		996	1,058
\$10,000 to \$24,999		1,143	1,397
\$25,000 to \$49,999		557	684
\$50,000 to \$99,999		353	323
\$100,000 or more		528	506

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**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
2007 AND 2012 -- Con.**

Item	Unit	2007	2012
Farm by type of organization			
Family or individual		6,363	5,685
Partnership		437	446
Corporation		617	637
Other-cooperative, estate or trust, institutional, etc		104	232
Operators by days worked off farm			
None		1,903	2,223
Any		5,618	4,777
200 days or more		2,827	2,598
Operators by principal occupation			
Farming		3,861	3,642
Other		3,660	3,358
Average age of principal operator	years	58.6	60.4
Total farm production expenses 1/	\$1,000	486,648	659,262
Livestock and poultry			
Cattle and calves inventory	farms	1,142	1,314
	number	151,479	133,957
Beef cows	farms	853	1,173
	number	86,000	(D)
Milk cows	farms	15	12
	number	2,296	(D)
Cattle and calves sold	farms	713	711
	number	70,567	56,159
Hogs and pigs inventory	farms	225	231
	number	14,933	11,441
Hogs and pigs sold	farms	148	131
	number	20,569	12,529
Broilers and other meat-type chickens sold	farms	7	22
	number	(D)	2,639

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**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
2007 AND 2012 -- Con.**

Item	Unit	2007	2012
Selected crops harvested			
Corn for grain	farms	14	15
	acres	3,115	5,198
	bushels	124,878	367,142
Sugarcane for sugar	farms	9	18
	acres	(D)	(D)
	tons	(D)	(D)
Pineapples harvested	farms	42	42
	acres	(D)	(D)
	tons	(D)	(D)
Vegetables harvested	farms	901	960
	acres	6,845	8,880
Potatoes	farms	15	38
	acres	7	26
Sweet potatoes	farms	94	143
	acres	297	882
Land in orchards	farms	4,443	3,488
	acres	36,652	35,832

D Withheld to avoid disclosing data for individual farms.

1/ Data are based on a sample of farms.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *2012 Census of Agriculture, Vol.1, Part 1, Hawaii* (May 2014), "Table 1. Historical Highlights: 2012 and Earlier Census Years", pp. 7-8.

Table 19.02-- FARMS AND LAND IN FARMS, BY COUNTY: 2012

Item	Unit	Hawaii	Honolulu	Kauai	Maui
Farms	number	4,282	999	591	1,128
Land in farms	acres	686,856	69,168	144,127	229,166
Average size of farm	acres	160	69	244	203
Value of land and buildings 1/					
Average per farm	dollars	1,280,898	1,396,597	1,853,486	1,998,208
Average per acre	dollars	7,985	20,171	7,600	9,836
Estimated market value of all machinery and equipment 1/					
Average per farm	\$1,000 dollars	157,140	56,851	33,961	60,042
	dollars	36,698	56,908	57,464	53,228
Farms by size					
1 to 9	acres	2,610	743	348	711
10 to 49	acres	1,141	162	156	293
50 to 179	acres	326	51	42	61
180 to 499	acres	106	22	20	24
500 to 999	acres	37	3	7	10
1,000 or more	acres	62	18	18	29
Total cropland	farms	3,398	835	416	902
	acres	72,028	22,200	30,236	49,578
Harvested cropland	farms	3,229	821	391	852
	acres	57,807	(D)	6,800	(D)
Irrigated land	farms	1,026	603	266	603
	acres	6,966	10,776	22,523	41,548
Market value of agricultural products sold	\$1,000	247,245	161,488	64,514	188,100
Average per farm	dollars	57,741	161,650	109,160	166,755
Crops, including nursery and greenhouse crops	\$1,000	156,384	145,313	55,696	181,480
Livestock, poultry, and their products	\$1,000	90,860	16,176	8,817	6,620

D Withheld to avoid disclosing data for individual farms.

1/ Data are based on a sample of farms.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *2012 Census of Agriculture, Vol.1, Part 11, Hawaii* (May 2014), "Table 1. County Summary Highlights: 2012", p.208-209.

Table 19.03-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT: 2000 TO 2012

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
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	1,160	(NA)	(NA)	7,000
2007	7,500	1,120	(NA)	(NA)	6,500
2008	7,500	1,110	3,300	900	6,200
2009	7,500	1,110	3,500	1,000	6,200
2010	7,500	1,110	3,800	1,000	6,400
2011	7,500	1,110	(6/)	(6/)	7/ 7,100
2012	7,000	1,129	(6/)	(6/)	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/ 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.

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

6/ Beginning October 2011, data series discontinued.

7/ Annual averages are based on survey data for January, July, and October.

Source: USDA National Agricultural Statistics Service, Hawaii Annual Statistics Bulletin (annual) <http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp> accessed June 17, 2013, and Hawaii Agricultural Statistics Service, records; U.S. Dept. of Agriculture, National Agricultural Statistics Service, *2012 Census of Agriculture, Vol.1, Part 1, Hawaii (May 2014)*, "Table 1. Historical Highlights: 2012 and Earlier Census Years", pp. 7-8; USDA National Agricultural Statistics Service, Reports *Farm Labor*, <http://usda.mannlib.cornell.edu/usda/current/FarmLabo/FarmLabo-12-05-2013_revision.pdf> accessed May 19, 2014.

Table 19.04-- VALUE OF CROP AND LIVESTOCK SALES: 1985 TO 2011

[Thousands of dollars]

Year	All crops and livestock	Crops				Livestock
		All crops 1/	Sugar (unprocessed cane)	Pine-apples (fresh equiv.)	Other crops	
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	558,333	499,684	50,200	73,652	375,832	58,649
2007	552,889	2/ 498,338	47,600	(D)	450,738	54,551
2008	570,920	2/ 522,139	44,200	(D)	477,939	48,781
2009	609,520	2/ 553,862	44,200	(D)	509,662	55,658
2010	644,620	2/ 583,680	69,800	(D)	513,880	60,940
2011	679,504	2/ 602,881	78,100	(D)	524,781	76,623

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 products' value combined and included in total crop value.

2/ Includes Pineapples.

Source: USDA National Agricultural Statistics Service, Hawaii Annual Statistics Bulletin (annual)
 <http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp>
 accessed June 17, 2013.

Table 19.05-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, BY COUNTY: 1993 TO 2011

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					
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	1,440	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
2008	7,500	1,110	3,300	900	6,200
2009	7,500	1,110	3,500	1,000	6,200
2010	7,500	1,110	3,800	1,000	6,400
2011	7,500	1,110	(6/)	(6/)	7/ 7,100
Hawaii					
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
2008	4,650	670	(NA)	(NA)	2,350
2009	(8/)	(8/)	(NA)	(NA)	(8/)
2010	(8/)	(8/)	(NA)	(NA)	(8/)
2011	(8/)	(8/)	(NA)	(NA)	(8/)

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Table 19.05-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, BY COUNTY: 1993 TO 2011 -- 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					
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
2008	950	60	(NA)	(NA)	1,600
2009	(8/)	(8/)	(NA)	(NA)	(8/)
2010	(8/)	(8/)	(NA)	(NA)	(8/)
2011	(8/)	(8/)	(NA)	(NA)	(8/)
Kauai					
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
2008	750	150	(NA)	(NA)	550
2009	(8/)	(8/)	(NA)	(NA)	(8/)
2010	(8/)	(8/)	(NA)	(NA)	(8/)
2011	(8/)	(8/)	(NA)	(NA)	(8/)

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Table 19.05-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, BY COUNTY: 1993 TO 2011 -- 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					
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)	1,800
2005	850	260	(NA)	(NA)	1,700
2006	850	260	(NA)	(NA)	1,750
2007	1,150	230	(NA)	(NA)	1,700
2008	1,150	230	(NA)	(NA)	1,700
2009	(8/)	(8/)	(NA)	(NA)	(8/)
2010	(8/)	(8/)	(NA)	(NA)	(8/)
2011	(8/)	(8/)	(NA)	(NA)	(8/)

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/ 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.

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

6/ Beginning October 2011, data series discontinued.

7/ Annual averages are based on survey data for January, July, and October.

8/ County estimates not published due to staff reduction-in-force but combined and included in the State total.

Source: USDA National Agricultural Statistics Service, Hawaii Annual Statistics Bulletin (annual)

<http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp>

accessed June 19, 2013, and Hawaii Agricultural Statistics Service, records.

**Table 19.06-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTY:
1994 TO 2011**

[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						
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	558,333	499,684	50,200	73,652	375,832	58,649
2007	552,889	2/ 498,338	47,600	(D)	450,738	54,551
2008	570,920	2/ 522,139	44,200	(D)	477,939	48,781
2009	609,520	2/ 553,862	44,200	(D)	509,662	55,658
2010	644,620	2/ 583,680	69,800	(D)	513,880	60,940
2011	679,504	2/ 602,881	78,100	(D)	524,781	76,623
Hawaii						
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	-	(D)	130,887	19,078
1998	142,522	121,676	-	(D)	121,676	20,846
1999	144,470	121,939	-	(D)	121,939	22,531
2000	154,240	128,161	-	(D)	128,161	26,079
2001	160,258	134,380	-	(D)	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	(D)	164,772	-	(D)	(D)	(D)
2006	183,177	152,302	-	(D)	(D)	30,875
2007	173,572	140,895	-	(D)	(D)	32,677
2008	165,525	137,086	-	(D)	(D)	28,439
2009	(NA)	(4/)	-	(D)	(D)	(4/)
2010	(NA)	(4/)	-	(D)	(D)	(4/)
2011	(NA)	(4/)	-	(D)	(D)	(4/)

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**Table 19.06-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTY:
1994 TO 2011 -- 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						
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	(D)	133,918	-	(D)	(D)	(D)
2006	(D)	146,013	-	(D)	(D)	(D)
2007	(D)	140,811	-	(D)	(D)	(D)
2008	(D)	166,679	-	(D)	(D)	(D)
2009	(NA)	(4/)	-	(D)	(D)	(4/)
2010	(NA)	(4/)	-	(D)	(D)	(4/)
2011	(NA)	(4/)	-	(D)	(D)	(4/)
Kauai						
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	(D)	27,825	4,000
1998	54,728	49,612	28,700	(D)	20,912	5,116
1999	57,933	53,390	26,600	(D)	26,790	4,543
2000	46,739	42,886	18,500	(D)	24,386	3,853
2001	40,790	38,292	12,900	(D)	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	(D)	49,318	14,700	(D)	(D)	(D)
2006	(D)	60,352	9,500	(D)	(D)	(D)
2007	(D)	65,989	9,800	(D)	(D)	(D)
2008	(D)	74,646	9,700	(D)	(D)	(D)
2009	(NA)	(4/)	14,200	(D)	(D)	(4/)
2010	(NA)	(4/)	-	(D)	(D)	(4/)
2011	(NA)	(4/)	-	(D)	(D)	(4/)

Continued on next page.

**Table 19.06-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTY:
1994 TO 2011 -- 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						
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	(D)	145,983	44,200	(D)	(D)	(D)
2006	(D)	141,017	40,700	(D)	(D)	(D)
2007	(D)	150,643	37,800	(D)	(D)	(D)
2008	(D)	143,728	34,500	(D)	(D)	(D)
2009	(NA)	(4/)	30,000	(D)	(D)	(4/)
2010	(NA)	(4/)	69,800	(D)	(D)	(4/)
2011	(NA)	(4/)	78,100	(D)	(D)	(4/)

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

NA Not available.

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

2/ Includes an undisclosed value of pineapple.

3/ Revised from previous *Data Book*.

4/ County estimates not published due to staff reduction-in-force but combined and included in the State total.

Source: USDA National Agricultural Statistics Service, Hawaii Annual Statistics Bulletin (annual)

and <http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp>
accessed June 17, 2013.

Table 19.07-- ACREAGE IN CROP, NUMBER OF CROP FARMS, AND VALUE OF CROP SALES: 2008 TO 2011

Subject	2008	2009	2010	2011
Acreage in crop (1,000 acres)				
Sugarcane	39.7	39.6	34.5	34.3
Pineapples (land used for pineapple)	(D)	(D)	(D)	(D)
Vegetables and melons (harvested acreage)	2.1	2.1	2.7	2.7
Fruits, excluding pineapples	4.1	3.9	4.1	3.9
Coffee	7.8	8.0	8.0	8.0
Macadamia nuts	17.0	17.0	17.0	17.0
All other crops	20.7	20.9	20.3	19.2
Number of crop farms				
Sugar	2	2	1	1
Pineapples	40	40	40	30
Vegetables and melons 1/	540	540	540	540
Fruits (excluding pineapples)	1,500	1,600	1,600	1,600
Coffee	830	830	830	830
Macadamia nuts	570	570	570	570
Taro	105	110	115	115
Flowers and nursery products	1,025	1,010	970	970
Value of crop sales (\$1,000)				
Sugar (unprocessed cane)	44,200	44,200	69,800	78,100
Pineapples (fresh equivalent)	(D)	(D)	(D)	(D)
Vegetables, ginger root, herbs, and melons 2/	21,898	19,930	24,939	28,822
Fruits (excluding pineapples)	23,680	25,373	22,531	21,915
Coffee (parchment)	29,580	31,320	33,440	31,540
Macadamia nuts (in shell)	33,500	29,400	30,000	38,200
Taro	2,666	2,440	2,516	2,747
Seed crops	176,990	236,410	239,375	242,970
Flowers and nursery products	94,662	76,814	71,100	69,600

D Data not shown separately to avoid disclosure of individual operations but combined and included with all other crops.

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

2/ 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.

Source: USDA National Agricultural Statistics Service, Hawaii Annual Statistics Bulletin (annual)
<http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp>
accessed June 19, 2013.

Table 19.08-- ACREAGE IN CROP, NUMBER OF CROP FARMS, AND VALUE OF CROP SALES, BY COUNTY: 2011

Subject	Hawaii	Honolulu	Kauai	Maui
Acreage in crop (1,000 acres)				
Sugarcane	-	-	-	34.3
Pineapples (land used for pineapple)	(D)	(D)	(D)	(D)
Vegetables and melons (harvested acreage)	(1/)	(1/)	(1/)	(1/)
Fruits, excluding pineapples	(1/)	(1/)	(1/)	(1/)
Coffee	(D)	(D)	(D)	(D)
Macadamia nuts	(D)	(D)	(D)	(D)
All other crops	(1/)	(1/)	(1/)	(1/)
Number of crop farms				
Sugar	-	-	-	1
Pineapples	(1/)	(1/)	(1/)	(1/)
Vegetables and melons	(1/)	(1/)	(1/)	(1/)
Fruits (excluding pineapples)	(1/)	(1/)	(1/)	(1/)
Coffee	(D)	(D)	(D)	(D)
Macadamia nuts	(1/)	(1/)	(1/)	(1/)
Taro	(1/)	(1/)	(1/)	(1/)
Flowers and nursery products	(1/)	(1/)	(1/)	(1/)
Value of crop sales (\$1,000)				
Sugar (unprocessed cane)	-	-	-	78,100
Pineapples (fresh equivalent)	(D)	(D)	(D)	(D)
Vegetables, ginger root, herbs and melons 2/	(1/)	(1/)	(1/)	(1/)
Fruits (excluding pineapples)	(1/)	(1/)	(1/)	(1/)
Coffee (parchment)	(D)	(D)	(D)	(D)
Macadamia nuts (in shell)	(1/)	(1/)	(1/)	(1/)
Taro	(1/)	(1/)	(1/)	(1/)
Seed crops	(1/)	(1/)	(1/)	(1/)
Flowers and nursery products	(1/)	(1/)	(1/)	(1/)

D Withheld to avoid disclosure of individual operations.

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

2/ Includes noni, kava (awa), and others.

Source: USDA National Agricultural Statistics Service, Hawaii Annual Statistics Bulletin (annual)

<http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp>
accessed June 19, 2013.

Table 19.09-- SPECIALTY CROPS, FRUITS, AND VEGETABLES: 2011

[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 (2011-12)	6,300	1.2	7,600	415.0	31,540
Fresh herbs (2011)	(X)	(X)	5,400	(X)	9,475
Macadamia nuts (2011-12)	15,000	3.3	58,000	78.0	38,220
Seed crops (2011-12)	5,625	(X)	12,540	(X)	242,970
Fruits					
Bananas	1,000	17.4	17,400	65.0	11,310
Papayas	1,300	22.0	28,600	34.0	9,722
Vegetables					
Cabbage, Chinese	200	19.0	3,800	34.0	1,295
Cabbage, head	430	20.9	9,000	31.0	2,790
Eggplant	75	24.0	1,800	98.0	1,764
Lettuce	140	14.6	2,050	266.0	5,453
Onions, dry	130	20.8	2,700	121.0	3,267
Onions, green	125	11.2	1,400	139.0	1,946
Romaine	110	15.5	1,700	61.0	1,037
Sweet potatoes	1,100	15.2	16,700	44.0	7,348
Taro	1/ 450	(X)	4,100	67.0	2,747
Watercress	35	(X)	820	177.0	1,451

X Not applicable.

1/ Acreage in crop for poi taro.

Source: USDA National Agricultural Statistics Service, Hawaii Annual Statistics Bulletin (annual)

<http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp>
accessed June 19, 2013.

**Table 19.10-- SUGARCANE ACREAGE, BY TYPE OF IRRIGATION:
1993 TO 2013**

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	-	-
2007	41,762	41,762	-	-
2008	39,663	39,663	-	-
2009	39,812	39,812	-	-
2010	34,693	34,693	-	-
2011	35,532	35,532	-	-
2012	36,746	36,746	-	-
2013	35,556	35,556	-	-

Source: Hawaii Agriculture Research Center; Hawaiian Commercial & Sugar Company, records.

Table 19.11-- LIVESTOCK INVENTORY, 1985 TO 2011, AND BY COUNTY, 2011

[In thousands]

Year and county	All cattle and calves 1/	Milk cows 1/	Hogs and pigs 2/	Chickens (excluding broilers) 2/	Bee colonies
1985	209	11.0	55.0	1,210	9
1986	199	12.0	50.0	1,185	9
1987	203	12.0	47.0	1,212	9
1988	212	12.0	43.0	1,217	9
1989	205	11.0	39.0	1,216	9
1990	215	11.0	36.0	1,183	10
1991	200	10.0	34.0	1,213	10
1992	178	11.0	35.0	1,109	9
1993	165	11.0	33.0	1,012	9
1994	178	11.0	35.0	981	9
1995	174	10.0	34.0	933	8
1996	172	10.0	28.0	876	8
1997	180	9.0	29.0	863	9
1998	173	9.0	29.0	747	8
1999	164	9.0	28.0	721	8
2000	150	7.0	26.0	722	7
2001	152	7.0	27.0	659	8
2002	151	7.0	24.0	625	7
2003	156	6.0	23.0	600	7
2004	155	5.7	22.0	598	8
2005	161	4.6	19.0	547	9
2006	158	3.8	16.0	470	10
2007	152	2.3	15.0	398	10
2008	150	1.6	13.0	373	10
2009	151	1.8	13.0	379	10
2010	141	2.0	12.5	364	11
2011	140	1.9	11.5	(D)	5
2011					
Hawaii	(3/)	(3/)	(3/)	(NA)	(NA)
Honolulu	(3/)	(3/)	(3/)	(NA)	(NA)
Kauai	(3/)	(3/)	(3/)	(NA)	(NA)
Maui	(3/)	(3/)	(3/)	(NA)	(NA)

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

NA Not available.

1/ As of January 1 of the following year.

2/ As of December 1.

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

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); and <http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp> accessed June 19, 2013.

Table 19.12-- NUMBER OF LIVESTOCK OPERATIONS AND VALUE OF LIVESTOCK SALES: 2007 TO 2011

Subject	2007	2008	2009	2010	2011
Number of livestock operations, Dec. 31					
Cattle 1/	1,100	1,000	1,000	1,000	1,000
Hogs	230	230	230	230	230
Milk	15	15	15	15	15
Eggs	80	100	100	100	(D)
Honey	40	35	35	35	35
Value of livestock sales (\$1,000)					
Cattle 2/	26,196	24,305	28,945	30,892	46,369
Hogs 2/	3,682	3,359	2,996	3,661	2,624
Milk	9,673	5,460	7,491	8,750	9,547
Eggs	7,428	8,678	8,759	8,760	(D)
Honey	1,564	1,431	1,672	2,118	3,137

D Data not shown separately 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: USDA National Agricultural Statistics Service, Hawaii Annual Statistics Bulletin (annual) and <http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp> accessed June 17, 2013.

Table 19.13-- NUMBER OF LIVESTOCK OPERATIONS AND VALUE OF LIVESTOCK SALES, BY COUNTY: 2010 AND 2011

Subject	Hawaii	Honolulu	Kauai	Maui
2010				
Number of livestock operations, Dec. 31				
Cattle 1/	(2/)	(2/)	(2/)	(2/)
Hogs	(2/)	(2/)	(2/)	(2/)
Milk	(2/)	(2/)	(2/)	(2/)
Eggs	(2/)	(2/)	(2/)	(2/)
Honey	(2/)	(2/)	(2/)	(2/)
Value of livestock sales (\$1,000)				
Cattle 3/	(2/)	(2/)	(2/)	(2/)
Hogs 3/	(2/)	(2/)	(2/)	(2/)
Milk	(2/)	(2/)	(2/)	(2/)
Eggs	(2/)	(2/)	(2/)	(2/)
2011				
Number of livestock operations, Dec. 31				
Cattle 1/	(2/)	(2/)	(2/)	(2/)
Hogs	(2/)	(2/)	(2/)	(2/)
Milk	(2/)	(2/)	(2/)	(2/)
Eggs	(2/)	(2/)	(2/)	(2/)
Honey	(2/)	(2/)	(2/)	(2/)
Value of livestock sales (\$1,000)				
Cattle 3/	(2/)	(2/)	(2/)	(2/)
Hogs 3/	(2/)	(2/)	(2/)	(2/)
Milk	(2/)	(2/)	(2/)	(2/)
Eggs	(2/)	(2/)	(2/)	(2/)

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

2/ County estimates not published due to staff reduction-in-force but combined and included in the State total.

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

Source: USDA National Agricultural Statistics Service, Hawaii Annual Statistics Bulletin (annual) and <http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp> accessed June 19, 2013.

**Table 19.14-- FLORICULTURE AND NURSERY PRODUCTS, 1998 TO 2012,
AND BY COUNTY, 2008 TO 2012**

County and year	Number of farms	Growing area					Wholesale value (\$1,000)
		Total (acres)	Green-house (1,000 sq. ft.) 1/	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
State total							
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	930	4,064	2,190	25,410	(NA)	3,430	98,725
2007	1,060	4,376	2,020	25,015	(NA)	3,755	108,710
2008	1,025	3,170	2,120	23,570	(NA)	2,580	94,662
2009	1,010	2,780	1,930	24,615	(NA)	2,170	76,814
2010	970	2,650	1,875	20,940	(NA)	2,120	71,100
2011	970	2,695	1,770	19,990	(NA)	2,195	69,600
2012	950	2,875	1,600	19,100	(NA)	2,400	69,100
County, 2008							
Hawaii	465	1,530	1,520	18,100	(NA)	1,080	41,238
Honolulu	270	700	165	4,270	(NA)	600	35,362
Kauai	90	255	155	500	(NA)	240	3,949
Maui	200	685	280	700	(NA)	660	14,113
County, 2009							
Hawaii	(2/)	(2/)	(2/)	(2/)	(NA)	(2/)	(2/)
Honolulu	(2/)	(2/)	(2/)	(2/)	(NA)	(2/)	(2/)
Kauai	(2/)	(2/)	(2/)	(2/)	(NA)	(2/)	(2/)
Maui	(2/)	(2/)	(2/)	(2/)	(NA)	(2/)	(2/)
County, 2010							
Hawaii	(2/)	(2/)	(2/)	(2/)	(NA)	(2/)	(2/)
Honolulu	(2/)	(2/)	(2/)	(2/)	(NA)	(2/)	(2/)
Kauai	(2/)	(2/)	(2/)	(2/)	(NA)	(2/)	(2/)
Maui	(2/)	(2/)	(2/)	(2/)	(NA)	(2/)	(2/)
County, 2011							
Hawaii	(2/)	(2/)	(2/)	(2/)	(NA)	(2/)	(2/)
Honolulu	(2/)	(2/)	(2/)	(2/)	(NA)	(2/)	(2/)
Kauai	(2/)	(2/)	(2/)	(2/)	(NA)	(2/)	(2/)
Maui	(2/)	(2/)	(2/)	(2/)	(NA)	(2/)	(2/)
County, 2012							
Hawaii	(2/)	(2/)	(2/)	(2/)	(NA)	(2/)	(2/)
Honolulu	(2/)	(2/)	(2/)	(2/)	(NA)	(2/)	(2/)
Kauai	(2/)	(2/)	(2/)	(2/)	(NA)	(2/)	(2/)
Maui	(2/)	(2/)	(2/)	(2/)	(NA)	(2/)	(2/)

NA Not available.

1/ Glass or glass substitute structure.

2/ County estimates not published due to staff reduction-in-force but combined and included in the State total.

Source: USDA, National Agricultural Statistics Service, Hawaii Field Office, *Hawaii Flowers & Nursery Products, Annual Summary*, (July 15, 2013)

<http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Flowers_and_Nursery_Products/flower.pdf>
accessed February 28, 2014.

**Table 19.15-- FLORICULTURE AND NURSERY PRODUCTS, BY
COMMODITY: 2012**

[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 1/	Number sold		Value of sales (\$1,000)
		Unit	Number	
Selected cut flowers				
Anthuriums	45	1,000 dozens	348	3,342
Heliconias	52	1,000 dozens	46	517
Proteas	30	1,000 stems	1,059	922
Orchids				
Sprays, Dendrobiums	32	1,000 dozens	200	1,632
Potted, Dendrobiums	57	1,000 pots	521	3,017
Potted, Phalaenopsis	23	1,000 pots	170	1,315
Foliage				
Potted, dracaena	26	(X)	(NA)	2,833
Potted, palms	29	(X)	(NA)	3,883
Potted flowering plants				
Poinsettias	18	1,000 pots	249	1,260
Plant rentals	38	(X)	(NA)	4,728
Landscape plants 2/	134	(X)	(X)	21,083

X Not applicable.

NA Not available.

1/ Number of farms having sales during that year; "Total" is unduplicated count.

2/ Includes broadleaf and coniferous evergreens, deciduous and flower trees, palms, and citrus, fruit and nut trees, and sod. Does not include palms or potted foliage for indoor or patio use, bedding and garden plants, propagative floriculture material, and items which are included in published categories.

Source: USDA, National Agricultural Statistics Service, Hawaii Field Office, *Hawaii Flowers & Nursery Products, Annual Summary* (July 15, 2013)

<http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Flowers_and_Nursery_Products/flower.pdf>
accessed February 28, 2014.

Table 19.16-- OUT-OF-STATE SALES OF FLORICULTURE AND NURSERY PRODUCTS: 2008 TO 2012

[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	2008	2009	2010	2011	2012
Total sales	43,230	35,570	30,370	29,340	29,670
Anthuriums, cut	5,800	4,720	4,500	4,200	4,200
Dendrobiums, sprays	3,100	2,500	2,400	2,400	2,500
Foliage, potted	9,400	7,700	6,500	7,000	7,900
Heliconias	1,000	900	900	800	700
Dendrobiums, potted	1,900	1,800	1,400	1,100	1,000
Proteas	1,500	1,500	1,400	1,200	1,100
Other flowers, nursery products	20,530	16,450	13,270	12,640	12,270

Source: USDA, National Agricultural Statistics Service, Hawaii Field Office, *Hawaii Flowers & Nursery Products, Annual Summary*. See also http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Flowers_and_Nursery_Products/flower.pdf accessed February 28, 2014.

Table 19.17-- AGRICULTURAL LABOR: HIRED WORKERS ON FARMS BY TYPE OF FARM, 1993 TO 2011

[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
2009	6,200	(4/)	(4/)	5,300
2010	6,400	(5/)	(5/)	5,600
2011	6/ 7,100	(7/)	(7/)	6/ 6,250

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.

4/ 900 for Sugarcane and Pineapple. Data combined to avoid disclosure of individual operations.

5/ 800 for Sugarcane and Pineapple. Data combined to avoid disclosure of individual operations.

6/ Annual averages are based on survey data for January, July, and October.

7/ 850 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> and USDA National Agricultural Statistics Service, Hawaii Annual Statistics Bulletin (annual) and <http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp> accessed June 17, 2013.

**Table 19.18-- GENERAL EXCISE TAX BASE FOR PRODUCING:
1998 TO 2013**

[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
1998	478,201	2006	445,679
1999	501,501	2007	475,827
2000	519,272	2008	448,975
2001	499,896	2009	351,578
2002	522,418	2010	339,035
2003	543,561	2011	399,078
2004	550,949	2012	401,496
2005	591,329	2013	392,735

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://files.hawaii.gov/tax/stats/monthly/2013cy-ge.pdf>>.

**Table 19.19-- AGRICULTURAL CHEMICALS USED, INCLUDING FERTILIZER:
2007 AND 2012**

Chemicals used	Unit	2007	2012
Any fertilizer, manure, or chemicals used	farms	5,742	4,457
Manure used	farms	705	634
	acres on which used	3,859	5,165
Any fertilizer or chemical expense	farms	6,158	5,101
	\$1,000	47,046	79,577
Commercial fertilizer, lime and soil conditioners used	farms	4,785	3,450
	acres on which used	116,530	109,503
Commercial fertilizer, lime and soil conditioners expenses	farms	5,653	4,428
	\$1,000	29,807	46,584
Chemical expenses	farms	4,207	4,487
	\$1,000	17,238	32,993
Chemicals used to control			
Insects	farms	2,012	2,349
	acres on which used	33,474	30,417
Nematodes	farms	253	379
	acres on which used	6,889	4,089
Diseases in crops and orchards	farms	836	963
	acres on which used	9,716	9,143
Weeds, grass, or brush	farms	3,053	3,299
	acres on which used	98,108	114,713
Chemicals used on crops to control growth, thin fruit, ripen, or defoliate	farms	255	338
	acres on which used	15,677	19,000

NA Not available.

Source: U.S. Department of Agriculture, *2012 Census of Agriculture, Hawaii*, (May 2014), p. 34.

Table 19.20-- AQUACULTURE INDUSTRY OPERATIONS: 1980 TO 2011

Year	Number of operations, Dec. 31	Acreage, Dec. 31	Production (1,000 lb.)	Value (\$1,000)
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)	25,110
2008	70	(NA)	(NA)	34,650
2009	70	(NA)	(NA)	32,330
2010	75	(NA)	(NA)	29,970
2011	70	(NA)	(NA)	39,970

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) and USDA National Agricultural Statistics Service, *Hawaii Annual Statistics Bulletin* (annual) <http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp> accessed June 17, 2013.

**Table 19.21-- AQUACULTURE OPERATIONS, ACREAGE, PRODUCTION,
AND VALUE, BY COUNTY: 2010 AND 2011**

Subject	State total	Hawaii	Honolulu	Kauai	Maui
2010					
Number of operations	75	(1/)	(1/)	(1/)	(1/)
Production (1,000 lb.)	(NA)	(1/)	(1/)	(1/)	(1/)
Shellfish	76	(1/)	(1/)	(1/)	(1/)
Finfish	211	(1/)	(1/)	(1/)	(1/)
Value (\$1,000)	29,970	(1/)	(1/)	(1/)	(1/)
Shellfish	575	(1/)	(1/)	(1/)	(1/)
Finfish	1,012	(1/)	(1/)	(1/)	(1/)
Algae	16,725	(1/)	(1/)	(1/)	(1/)
Ornamental	1,837	(1/)	(1/)	(1/)	(1/)
Other 2/	9,821	(1/)	(1/)	(1/)	(1/)
2011					
Number of operations	70	(1/)	(1/)	(1/)	(1/)
Production (1,000 lb.)	(NA)	(1/)	(1/)	(1/)	(1/)
Shellfish	55	(1/)	(1/)	(1/)	(1/)
Finfish	315	(1/)	(1/)	(1/)	(1/)
Value (\$1,000)	39,970	(1/)	(1/)	(1/)	(1/)
Shellfish	413	(1/)	(1/)	(1/)	(1/)
Finfish	1,493	(1/)	(1/)	(1/)	(1/)
Algae	25,230	(1/)	(1/)	(1/)	(1/)
Ornamental	2,514	(1/)	(1/)	(1/)	(1/)
Other 2/	10,320	(1/)	(1/)	(1/)	(1/)

NA Not available.

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

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

Source: USDA National Agricultural Statistics Service, Hawaii Annual Statistics Bulletin (annual)
<http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp>
accessed June 19, 2013.