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## Section 19

# AGRICULTURE

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

Important sources for data on agriculture include the *United States Census of Agriculture*, most recently published for 2012; the annual report on *Statistics of Hawaii Agriculture* issued by the Hawaii Agricultural Statistics Service; the Bureau of Economic Analysis; 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 BY SIZE, LAND IN FARMS, AND VALUE OF LAND, BUILDINGS, AND EQUIPMENT: 2007 AND 2012**

Item	Unit	2007	2012
Farms	number	7,521	7,000
Land in farms	acres	1,121,329	1,129,317
Farms by size			
1 to 9 acres	number	4,813	4,412
10 to 49 acres	number	1,972	1,752
50 to 179 acres	number	423	480
180 to 499 acres	number	154	172
500 to 999 acres	number	44	57
1,000 to 1,999 acres	number	50	48
2,000 acres or more	number	65	79
Average size of farm	acres	149	161
Median size of farm	acres	5	5
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
Value of land and buildings			
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			
Total	\$1,000	304,997	307,994
Average per farm	dollars	40,666	43,999

Source: USDA National Agricultural Statistics Service, *2007 Census of Agriculture, Vol. 1, Chapter 2: State Level Data* (December 2009), "Table 1. State Summary Highlights: 2007", pp. 276-293, *2012 Census of Agriculture, Vol.1, Part 1, Hawaii* (May 2014), "Table 1. Historical Highlights: 2012 and Earlier Census Years", pp. 7-8, *2012 Census of Agriculture, Vol. 1, Chapter 2: State Level Data*, "Table 1. State Summary Highlights: 2012", pp. 245-260 (May 2014).

**Table 19.02-- FARMS, MARKET VALUE AND VALUE OF SALES:  
2007 AND 2012**

Item	Unit	2007	2012
Total farms in Hawaii	Number	7,521	7,000
Farms by value of sales			
Less than \$2,500	Number	2,932	2,130
\$2,500 to \$4,999	Number	1,012	902
\$5,000 to \$9,999	Number	996	1,058
\$10,000 to \$24,999	Number	1,143	1,397
\$25,000 to \$49,999	Number	557	684
\$50,000 to \$99,999	Number	353	323
\$100,000 to \$499,999	Number	380	358
\$500,000 or more	Number	148	148
Market value of agricultural products sold	\$1,000	513,626	661,347
Crops, including nursery and greenhouse crops	\$1,000	429,916	538,873
Livestock, poultry, and their products	\$1,000	83,711	122,474
Average market value of agricultural products sold per farm	Dollars	68,292	94,478

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

**Table 19.03-- FARMS BY SIZE, LAND IN FARMS, AND VALUE OF LAND,  
BUILDINGS AND EQUIPMENT, BY COUNTY: 2012**

Item	Unit	State total	County of Hawaii	City and Co. of Honolulu	County of Kauai	County of Maui
Farms	number	7,000	4,282	999	591	1,128
Land in farms	acres	1,129,317	686,856	69,168	144,127	229,166
Farms by size						
1 to 9 acres	number	4,412	2,610	743	348	711
10 to 49 acres	number	1,752	1,141	162	156	293
50 to 179 acres	number	480	326	51	42	61
180 to 499 acres	number	172	106	22	20	24
500 to 999 acres	number	57	37	3	7	10
1,000 or more acres	number	127	62	18	18	29
Average size of farm	acres	161	160	69	244	203
Median size of farm	acres	5	6	3	7	5
Total cropland	farms	5,551	3,398	835	416	902
	acres	174,042	72,028	22,200	30,236	49,578
Harvested cropland	farms	5,293	3,229	821	391	852
	acres	99,031	57,807	(D)	6,800	(D)
Irrigated land	farms	2,498	1,026	603	266	603
	acres	81,813	6,966	10,776	22,523	41,548
Value of land & buildings						
Average per farm	dollars	1,461,342	1,280,898	1,396,597	1,853,486	1,998,208
Average per acre	dollars	9,058	7,985	20,171	7,600	9,836
Estim. market value of all machinery & equipment	\$1,000	307,994	157,140	56,851	33,961	60,042
Average per farm	dollars	43,999	36,698	56,908	57,464	53,228
Market value of agricultural products sold	\$1,000	661,347	247,245	161,488	64,514	188,100
Average per farm	dollars	94,478	57,741	161,650	109,160	166,755
Crops, including nursery & greenhouse crops	\$1,000	538,873	156,384	145,313	55,696	181,480
Livestock, poultry, & their products	\$1,000	122,474	90,860	16,176	8,817	6,620

D Withheld to avoid disclosing data for individual farms.

Source: USDA 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, *2012 Census of Agriculture, Vol.1, Part 11, Hawaii*, "Table 1. County Summary Highlights: 2012", pp. 208-209, and *2012 Census of Agriculture, Vol. 1, Chapter 2: State Level Data* (May 2014), "Table 1. State Summary Highlights: 2012", pp. 245-260 (May 2014).

**Table 19.04-- FARM PRODUCTION EXPENSES: 2007 AND 2012**

[In thousands of dollars]

<b>Item</b>	<b>2007</b>	<b>2012</b>
Total farm production expenses	486,648	659,262
Selected farm production expenses		
Livestock and poultry purchased or leased	3,343	3,880
Feed purchased	24,678	43,811
Fertilizer, lime, and soil conditioners purchased	29,807	46,584
Gasoline, fuels, and oils purchased	24,443	33,157
Hired farm labor	178,496	269,907
Interest expense	14,838	13,208
Chemicals purchased	17,238	32,993

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

**Table 19.05-- FARM INCOME AND EXPENSES: 2013 TO 2016**[In thousands of dollars. Data for 2014 and 2015 were revised from previous *Data Book*]

Item	2013	2014	2015	2016
Cash receipts from marketings	457,484	495,764	478,706	450,211
Livestock and products	99,286	138,458	138,695	113,112
Crops	358,198	357,306	340,011	337,099
Other income	127,171	126,610	113,957	78,255
Government payments	13,155	24,665	24,841	12,081
Imputed and misc. income received 1/	114,016	101,945	89,116	66,174
Production expenses	765,490	816,800	742,105	787,297
Feed purchased	36,135	36,891	33,876	34,175
Livestock purchased	3,915	5,344	5,513	3,852
Seed purchased	21,173	21,332	20,593	20,111
Fertilizer, lime, and ag. chemicals	75,609	77,559	71,029	64,408
Petroleum products purchased	34,693	35,415	26,341	22,850
Hired farm labor expenses 2/	286,074	297,784	276,555	301,188
All other production expenses 3/	307,891	342,475	308,198	340,713
Value of inventory change	-2,860	6,082	5,969	1,249
Livestock	-2,351	-72	8,014	2,107
Crops	-	-	-	-
Materials and supplies	-509	6,154	-2,045	-858

1/ Consists of the value of home consumption and other farm related income components, such as machine hire and custom work income and income from forest products.

2/ Consists of hired workers' cash pay and perquisites, employers' contributions for social security and Medicare, and payments for contract labor, machine hire, and custom work.

3/ Consists of repair and operation of machinery and depreciation, interest, rent and taxes.

Source: Bureau of Economic Analysis, "Local Area Personal Income and Employment, Farm Income and Expenses (CA45)" (November 16, 2017) <<https://www.bea.gov/itable/>> accessed May 7, 2018.

**Table 19.06-- FARM ORGANIZATION AND PRINCIPAL OPERATOR CHARACTERISTICS: 2007 AND 2012**

Item	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
Principal operator by primary occupation		
Farming	3,861	3,642
Other	3,660	3,358
Principal operator by days worked off farm		
None	1,903	2,223
Any	5,618	4,777
1 to 49 days	1,015	690
50 to 99 days	857	562
100 to 199 days	919	927
200 days or more	2,827	2,598
Principal operator's place of residence		
On farm operated	5,355	4,649
Not on farm operated	2,166	2,351
Principal operator by sex		
Male	5,715	5,426
Female	1,806	1,574
Average age of principal operator	58.6	60.4
Principal operator by race		
American Indian or Alaska Native	41	32
Asian	2,544	2,824
Black or African American	10	18
Native Hawaiian or Other Pacific Islander	625	689
White	3,627	2,749
More than one race	674	688

Source: USDA National Agricultural Statistics Service, *2012 Census of Agriculture, Vol.1, Part 1, Hawaii*, "Table 1. Historical Highlights: 2012 and Earlier Census Years", pp. 7-8 and "Table 62. Selected Principal Operator Characteristics by Race: 2012 and 2007", p. 48 (May 2014).

**Table 19.07-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT:  
2000 TO 2017**

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
2013	7,000	1,129	(6/)	(6/)	6,500
2014	7,000	1,129	(6/)	(6/)	7,000
2015	7,000	1,120	(6/)	(6/)	6,500
2016	7,000	1,120	(6/)	(6/)	6,000
2017	7,000	1,120	(6/)	(6/)	8/ 6,000

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.

8/ Annual averages are based on survey data for January, April, July, 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](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*, "Table 1. Historical Highlights: 2012 and Earlier Census Years", pp. 7-8 (May 2014); USDA National Agricultural Statistics Service, *Farm Labor* <[http://usda.mannlib.cornell.edu/usda/current/FarmLabo/FarmLabo-12-05-2013\\_revision.pdf](http://usda.mannlib.cornell.edu/usda/current/FarmLabo/FarmLabo-12-05-2013_revision.pdf)> accessed May 19, 2014 and records; and USDA National Agricultural Statistics Service, Quick Stats <<https://quickstats.nass.usda.gov>> accessed May 7, 2018.

**Table 19.08-- FARM EMPLOYMENT: 1998 TO 2016**

[The estimates of employment for 1998-2006 are based on the 2002 North American Industry Classification System (NAICS). The estimates for 2007-2010 are based on the 2007 NAICS. The estimates for 2011 forward are based on the 2012 NAICS]

Year	Total farm employment 1/	Farm proprietors employment 2/	Farm wage and salary employment 3/
1998	12,501	5,297	7,204
1999	12,292	5,274	7,018
2000	12,839	5,258	7,581
2001	12,289	5,236	7,053
2002	11,962	4,795	7,167
2003	11,917	4,719	7,198
2004	11,596	4,604	6,992
2005	11,395	4,605	6,790
2006	11,304	4,513	6,791
2007	12,485	6,154	6,331
2008	11,653	6,006	5,647
2009	11,281	5,903	5,378
2010	11,510	5,848	5,662
2011	12,304	5,776	6,528
2012	11,757	5,658	6,099
2013	11,869	5,693	6,176
2014	13,071	5,696	7,375
2015	4/ 12,446	4/ 5,712	6,734
2016	12,003	5,708	6,295

1/ 'Total farm employment' is the number of workers engaged in the direct production of agricultural commodities, either livestock or crops; whether as a sole proprietor, partner, or hired laborer.

2/ Consists of sole proprietors and non-corporate partners in the farm industry.

3/ 'Farm wage and salary employment' is the number of hired laborers engaged in the direct production of agricultural commodities, either livestock or crops.

4/ Revised from previous *Data Book*.

Source: Bureau of Economic Analysis, "Annual State Personal Income and Employment, Total Full-Time and Part-Time Employment by Industry" (SA25N) (September 26, 2017) <<https://www.bea.gov/itable/>> accessed May 7, 2018 and "Full-Time and Part-Time Wage and Salary Employment by Industry" (SA27N) (September 26, 2017) <<https://www.bea.gov/itable/>> accessed May 7, 2018.

**Table 19.09-- FARM EMPLOYMENT, BY COUNTY: 2001 TO 2016**

The estimates of employment for 2001-2006 are based on the 2002 North American Industry Classification System (NAICS). The estimates for 2007-2010 are based on the 2007 NAICS. The estimates for 2011 forward are based on the 2012 NAICS]

County and year	Total farm employment 1/	Farm proprietors employment 2/	Farm wage and salary employment 3/
State			
2001	12,289	5,236	7,053
2002	11,962	4,795	7,167
2003	11,917	4,719	7,198
2004	11,596	4,604	6,992
2005	11,395	4,605	6,790
2006	11,304	4,513	6,791
2007	12,485	6,154	6,331
2008	11,653	6,006	5,647
2009	11,281	5,903	5,378
2010	11,510	5,848	5,662
2011	12,304	5,776	6,528
2012	11,757	5,658	6,099
2013	11,869	5,693	6,176
2014	13,071	5,696	7,375
2015 4/	12,446	5,712	6,734
2016	12,003	5,708	6,295
Hawaii			
2001	5,330	3,171	2,159
2002	5,099	2,890	2,209
2003	5,099	2,873	2,226
2004	5,028	2,828	2,200
2005	5,093	2,847	2,246
2006	5,164	2,807	2,357
2007	6,362	3,850	2,512
2008	5,912	3,752	2,160
2009	5,663	3,680	1,983
2010	5,599	3,638	1,961
2011	5,776	3,584	2,192
2012	5,589	3,503	2,086
2013	5,576	3,520	2,056
2014	6,116	3,522	2,594
2015 4/	5,954	3,519	2,435
2016	5,852	3,518	2,334

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**Table 19.09-- FARM EMPLOYMENT, BY COUNTY:  
2001 TO 2016-- Con.**

<b>County and year</b>	<b>Total farm employment 1/</b>	<b>Farm proprietors employment 2/</b>	<b>Farm wage and salary employment 3/</b>
Honolulu			
2001	2,818	732	2,086
2002	2,813	656	2,157
2003	2,918	627	2,291
2004	2,684	594	2,090
2005	2,529	579	1,950
2006	2,384	554	1,830
2007	2,166	738	1,428
2008	2,068	735	1,333
2009	2,118	736	1,382
2010	2,352	744	1,608
2011	2,717	750	1,967
2012	2,586	750	1,836
2013	2,698	756	1,942
2014	2,998	757	2,241
2015 4/	2,851	763	2,088
2016	2,724	762	1,962
Maui 5/			
2001	2,816	792	2,024
2002	2,723	731	1,992
2003	2,597	719	1,878
2004	2,630	702	1,928
2005	2,526	704	1,822
2006	2,569	691	1,878
2007	2,872	942	1,930
2008	2,658	930	1,728
2009	2,461	925	1,536
2010	2,572	928	1,644
2011	2,790	929	1,861
2012	2,595	923	1,672
2013	2,597	931	1,666
2014	2,865	931	1,934
2015 4/	2,576	941	1,635
2016	2,409	939	1,470
Kauai			
2001	1,325	541	784
2002	1,327	518	809
2003	1,303	500	803
2004	1,254	480	774

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**Table 19.09-- FARM EMPLOYMENT, BY COUNTY:  
2001 TO 2016-- Con.**

<b>County and year</b>	<b>Total farm employment 1/</b>	<b>Farm proprietors employment 2/</b>	<b>Farm wage and salary employment 3/</b>
Kauai (con.)			
2005	1,247	475	772
2006	1,187	461	726
2007	1,085	624	461
2008	1,015	589	426
2009	1,039	562	477
2010	987	538	449
2011	1,021	513	508
2012	987	482	505
2013	998	486	512
2014	1,101	486	615
2015 4/	1,065	489	576
2016	1,018	489	529

1/ 'Total farm employment' is the number of workers engaged in the direct production of agricultural commodities, either livestock or crops; whether as a sole proprietor, partner, or hired laborer.

2/ Consists of sole proprietors and non-corporate partners in the farm industry.

3/ 'Farm wage and salary employment' is the number of hired laborers engaged in the direct production of agricultural commodities, either livestock or crops. It is calculated by subtracting 'Farm proprietors employment' from 'Total farm employment'. The calculated residuals might include corporate partners.

4/ Revised from previous *Data Book*.

5/ Maui County includes Kalawao County.

Source: Bureau of Economic Analysis, "Local Area Personal Income and Employment, Total Full-Time and Part-Time Employment by Industry" (CA25N) (November 16, 2017)  
<<https://www.bea.gov/itable/>>accessed May 7, 2018 and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 19.10-- VALUE OF CROP, LIVESTOCK, AND AQUACULTURE SALES:  
1990 TO 2016**

[Thousands of dollars]

Year	All crops, livestock, and aquaculture	Crops				Livestock	Aquaculture
		All crops 1/ 2/	Sugar (unpro- cessed cane)	Pine- apples (fresh equiv.)	Other crops		
1990	604,271	506,586	213,800	106,365	186,421	88,444	9,241
1991	558,266	464,139	174,900	107,775	181,464	87,243	6,884
1992	527,361	431,958	153,700	102,100	176,158	88,269	7,134
1993	513,944	421,593	163,000	79,850	178,743	84,882	7,469
1994	512,816	427,150	160,100	78,890	188,160	76,630	9,036
1995	506,692	421,089	127,700	87,360	206,029	72,296	13,307
1996	511,343	428,671	108,100	95,914	224,657	67,017	15,655
1997	504,705	420,306	85,500	91,721	243,085	67,799	16,600
1998	509,962	420,634	87,300	92,776	240,558	72,708	16,620
1999	531,094	443,111	86,800	101,448	254,863	69,881	18,102
2000	521,941	431,482	62,200	101,530	267,752	68,289	22,170
2001	524,378	437,438	57,800	96,337	283,301	64,740	22,200
2002	539,518	453,400	64,300	100,616	288,484	60,938	25,180
2003	548,123	461,680	64,400	101,470	295,810	58,793	27,650
2004	552,057	459,702	61,500	83,104	315,098	64,255	28,100
2005	582,785	493,991	58,900	79,288	355,803	60,396	28,398
2006	579,590	499,684	50,200	73,652	375,832	58,649	21,257
2007	577,999	498,338	47,600	(D)	450,738	54,551	25,110
2008	605,570	522,139	44,200	(D)	477,939	48,781	34,650
2009	641,850	553,862	44,200	(D)	509,662	55,658	32,330
2010	674,590	583,680	69,800	(D)	513,880	60,940	29,970
2011	719,474	602,881	78,100	(D)	524,781	76,623	39,970
2012	646,318	527,554	73,322	(D)	454,222	63,024	55,740
2013	(NA)	521,182	77,740	(D)	443,442	61,856	(NA)
2014	631,063	474,707	54,349	(D)	420,358	78,115	78,241
2015	604,052	446,850	48,148	(D)	398,702	80,968	76,234
2016	578,595	445,717	54,375	(D)	391,342	57,168	75,710

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

NA Not available.

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

2/ Since 2007 pineapples included.

Source: USDA National Agricultural Statistics Service, *Hawaii Annual Statistics Bulletin* (annual) <[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Annual\\_Statistical\\_Bulletin/](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/)> accessed July 26, 2017, *Hawaii Aquaculture* (annual) <[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Miscellaneous/11022015HawaiiAquaculture.pdf](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Miscellaneous/11022015HawaiiAquaculture.pdf)> accessed June 30, 2017 and records.

**Table 19.11-- CROPS, BY ACREAGE, NUMBER OF FARMS, AND SALES:  
2013 TO 2016**

Subject	2013	2014	2015	2016
Acreage in crop (1,000 acres)				
Sugarcane	35.6	35.4	35.5	35.0
Pineapples	(D)	(D)	(D)	(D)
Vegetables and melons (harvested acreage)	3.6	3.4	5.4	5.7
Fruits, excluding pineapples	3.7	4.0	2.8	2.4
Coffee	8.2	7.8	7.8	7.0
Macadamia nuts	16.0	16.0	16.0	16.0
All other crops	18.0	18.1	18.2	19.6
Number of crop farms				
Sugar	(D)	(D)	(D)	(D)
Pineapples	(D)	(D)	(D)	(D)
Vegetables and melons 1/	(D)	(D)	(D)	(D)
Fruits (excluding pineapples)	(D)	(D)	(D)	(D)
Coffee	(D)	(D)	(D)	(D)
Macadamia nuts	(D)	(D)	(D)	(D)
Taro	(D)	(D)	(D)	(D)
Flowers and nursery products	(D)	(D)	(D)	(D)
Value of crop sales (\$1,000)				
Sugar (unprocessed cane)	77,740	54,349	48,148	54,375
Pineapples (fresh equivalent)	(D)	(D)	(D)	(D)
Vegetables, ginger root, herbs, and melons 2/ 3/	43,491	39,790	45,190	55,325
Fruits (excluding pineapples) 3/	22,380	24,972	22,271	19,906
Coffee 4/	52,080	54,270	62,622	48,856
Macadamia nuts (in shell)	35,670	40,020	46,000	42,000
Taro	1,934	1,944	2,381	2,312
Seed crops	184,235	158,800	140,830	148,400
Flowers and nursery products	72,292	67,162	67,399	74,543

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

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.

3/ Values include commodities from Tropical Specialties survey for 2016.

4/ Value is expressed in parchment basis for 2013-2014; 2015-2016 values are expressed in cherry basis.

Source: USDA National Agricultural Statistics Service, *Hawaii Annual Statistics Bulletin* (annual) <[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Annual\\_Statistical\\_Bulletin/](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/)> accessed July 26, 2017, *Hawaii Top 20 Commodities* (March 2017) <[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Annual\\_Statistical\\_Bulletin/2015/2015HawaiiTop20Commodities.pdf](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/2015/2015HawaiiTop20Commodities.pdf)> accessed May 2, 2017, and records.

**Table 19.12-- SEED CROPS, BY NUMBER OF FARMS, ACREAGE, OUTSHIPMENTS, AND VALUE: 2005/2006 TO 2017/2018**

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

Crop year	Number of farms	Acreage	Outshipments of seed (1,000 lb.)	Value (\$1,000) 1/		
				Total	Seed corn	Other seed crops
2005/2006	10	4,140	7,550	77,330	74,800	2,530
2006/2007	10	4,260	10,470	103,040	98,050	4,990
2007/2008	10	5,300	8,380	140,710	135,580	5,130
2008/2009	10	5,990	11,275	176,990	169,275	7,715
2009/2010	11	6,500	12,000	236,410	224,490	11,920
2010/2011	10	6,205	10,230	239,370	229,935	9,435
2011/2012	10	6,910	10,750	241,615	230,450	11,165
2012/2013	10	5,900	8,245	184,235	178,615	5,620
2013/2014	10	4,840	7,970	158,800	155,000	3,800
2014/2015	10	4,260	8,590	140,830	137,680	3,150
2015/2016	10	3,980	5,740	144,530	140,000	4,530
2016/2017 2/	11	4,100	7,600	148,400	144,100	4,300
2017/2018 3/	10	3,210	12,700	120,800	114,500	6,300

1/ Value is based on sales or gross operational budgets.

2/ Revised to final data.

3/ Preliminary.

Source: USDA National Agricultural Statistics Service, *Hawaii Seed Crops* (annual)

<[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Sugarcane\\_and\\_Specialty\\_Crops/index.php](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Sugarcane_and_Specialty_Crops/index.php)> accessed July 19, 2017 and records.

**Table 19.13-- SELECTED CROPS HARVESTED AND LAND IN ORCHARDS, BY NUMBER OF FARMS, ACRES AND WEIGHT: 2007 AND 2012**

Item	Unit	2007	2012
Corn for grain	farms	14	15
	acres	3,115	5,198
	bushels	124,878	367,142
Pineapples	farms	42	42
	acres	(D)	(D)
	tons	(D)	(D)
Sugarcane for sugar	farms	9	18
	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.

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

**Table 19.14-- SPECIALTY CROPS, FRUITS, AND VEGETABLES: 2016**

<b>Crop</b>	<b>Acreage harvested</b>	<b>Yield per acre (1,000 lb.) 1/</b>	<b>Production (1,000 lb.) 1/</b>	<b>Farm price (cents per lb.) 1/</b>	<b>Value of sales (\$1,000)</b>
Specialty crops					
Coffee 2/ 3/	7,000	4.2	29,260	171.0	48,856
Macadamia nuts 3/ 4/ 5/	16,000	2.6	42,000	100.0	42,000
Seed crops	4,100	(X)	(X)	(X)	148,400
Fruits					
Bananas 5/	700	8.0	5,550	101.0	5,592
Papayas 5/	1,300	15.2	19,750	49.2	9,713
Avocados 1/ 3/ 4/	430	1.2	530	(NA)	1,031
Vegetables					
Cabbage, Chinese	200	17.2	3,435	57.6	1,980
Cabbage, head	590	14.7	8,660	52.5	4,550
Cucumbers	270	20.9	5,635	100.0	5,635
Kale	65	6.4	415	212.0	880
Lettuce, head	70	13.8	965	157.5	1,520
Lettuce, leaf	210	7.6	1,600	245.3	3,925
Lettuce, romaine	165	10.2	1,675	129.9	2,175
Onions, green	90	12.3	1,105	203.2	2,245
Snap beans	170	2.7	460	141.3	650
Watercress	(D)	(D)	(D)	(D)	(D)

X Not applicable.

NA Not available.

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

1/ Reported in tons for avocados.

2/ Valuation of coffee is in cherry basis.

3/ Excluding organic.

4/ Bearing acreage.

5/ Utilized production only.

Source: USDA National Agricultural Statistics Service, Quick Stats <<https://quickstats.nass.usda.gov>> accessed May 21, 2018 and records.

**Table 19.15-- TOP 20 AGRICULTURAL COMMODITIES: 2016**

<b>Commodity</b>	<b>Rank</b>	<b>Value of production (\$1,000)</b>
Seed crops	1	145,300
Coffee	2	48,856
Sugarcane	3	48,148
Cattle	4	45,209
Macadamia nuts	5	42,000
Other aquaculture	6	41,361
Algae	7	34,349
Landscape plant material	8	23,064
Papayas	9	9,713
Milk	10	9,318
Lettuce	11	9,270
Cucumbers	12	6,490
Palms, potted	13	5,737
Bananas	14	5,592
Honey	15	4,176
Cabbage, head	16	3,805
Dendrobiums, potted	17	3,280
Plant rentals	18	3,193
Hogs	19	2,745
Anthurium	20	2,743

Source: USDA National Agricultural Statistics Service, *2016 Top 20 Commodities, State of Hawaii*, <[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Annual\\_Statistical\\_Bulletin/2016/2016HawaiiTop20Commodities.pdf](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/2016/2016HawaiiTop20Commodities.pdf)> accessed May 7, 2017.

**Table 19.16-- SUGARCANE ACREAGE, BY TYPE OF IRRIGATION:  
1993 TO 2016**

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	-	-
2014	35,556	35,556	-	-
2015	35,556	35,556	-	-
2016 1/	17,500	17,500	-	-

1/ Hawaii Commercial & Sugar Company ended its sugar operation at the end of 2016.

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

**Table 19.17-- LIVESTOCK INVENTORY: 1987 TO 2017**

[In thousands]

Year	All cattle and calves 1/	Milk cows 1/	Hogs and pigs 2/	Chickens (excluding broilers) 2/	Bee colonies
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)	9
2012	140	1.9	11.5	(D)	10
2013	135	2.2	11.5	(D)	13
2014	133	2.2	9.0	(D)	15
2015	133	2.2	9.0	(D)	14
2016	140	2.2	9.0	(D)	11
2017	142	2.4	(NA)	(D)	12

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.

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

<[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Annual\\_Statistical\\_Bulletin/](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/)>

accessed July 26, 2017 and records.

**Table 19.18-- LIVESTOCK, BY TYPE AND VALUE OF SALES: 2013 TO 2017**

Subject	2013	2014	2015	2016	2017
Number of livestock operations, Dec. 31					
Cattle 1/	(D)	(D)	(D)	(D)	(D)
Hogs	(D)	(D)	(D)	(D)	(D)
Milk	(D)	(D)	(D)	(D)	(D)
Eggs	(D)	(D)	(D)	(D)	(D)
Honey	(D)	(D)	(D)	(D)	(D)
Value of livestock sales (\$1,000)					
Cattle 2/	50,771	61,444	68,251	45,209	43,891
Hogs 2/	2,191	4,972	2,742	3/ 2,161	(NA)
Milk	10,079	10,514	10,080	3/ 9,214	11,125
Eggs	(D)	(D)	(D)	(D)	(D)
Honey	2,126	3,195	2,785	2,727	2,374

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.

3/ Revised from previous *Data Book*.

Source: USDA National Agricultural Statistics Service, *Hawaii Top 20 Commodities* (March 2017)

<[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Annual\\_Statistical\\_Bulletin/2015/2015HawaiiTop20Commodities.pdf](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/2015/2015HawaiiTop20Commodities.pdf)> accessed May 8, 2017 and records.

**Table 19.19-- LIVESTOCK AND POULTRY, INVENTORY AND SALES, BY  
NUMBER AND FARMS: 2007 AND 2012**

<b>Item</b>	<b>Unit</b>	<b>2007</b>	<b>2012</b>
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

D Withheld to avoid disclosing data for individual farms.

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

**Table 19.20-- FLORICULTURE AND NURSERY PRODUCTS: 1998 TO 2016**

Year	Number of farms	Growing area					Whole-sale value (\$1,000)
		Total (acres) 1/	Green-house (1,000 sq. ft.) 2/	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
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	(NA)	2,987	1,748	19,987	(NA)	2,488	70,300
2013	(NA)	2,615	1,419	19,873	(NA)	2,126	72,292
2014 3/	(NA)	2,620	1,794	21,332	(NA)	2,089	67,935
2015	(NA)	2,281	1,770	19,505	(NA)	1,793	67,399
2016	(NA)	2,264	1,822	19,061	(NA)	1,785	74,543

NA Not available.

1/ Details may not sum to total due to rounding and categories not shown separately.

2/ Glass or glass substitute structure.

3/ Revised from previous *Data Book*.

Source: USDA, National Agricultural Statistics Service, Hawaii Field Office, *Hawaii Floriculture and Nursery Products* (annual) <[http://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Flowers\\_and\\_Nursery\\_Products/](http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Flowers_and_Nursery_Products/)> accessed June 25, 2018 and records.

**Table 19.21-- SELECTED FLORICULTURE AND NURSERY PRODUCTS,  
BY COMMODITY: 2016**

[Shown for commodities with value of sales over \$500,000 and excludes "Other" categories.  
Includes only producers having total sales of \$10,000 or more. Preliminary data]

Commodity	Number of farms having sales 1/	Number sold		Value of sales (\$1,000)
		Unit	Number	
Selected cut flowers				
Anthuriums	38	1,000 stems	2,942	2,743
Proteas	20	1,000 stems	634	1,075
Orchids				
Cut, Dendrobiums	25	1,000 stems	2,052	1,375
Potted, Dendrobiums	51	1,000 pots	576	3,280
Potted, Phalaenopsis	25	1,000 pots	237	2,097
Foliage				
Potted, dracaena	22	1,000 pots	(NA)	(D)
Potted, palms	20	1,000 pots	(NA)	5,737
Potted flowering plants				
Anthuriums	17	1,000 pots	96	683
Poinsettias	16	1,000 pots	214	1,109
Plant rentals	35	(X)	(NA)	2,813
Landscape plants 2/	167	(X)	(NA)	23,064

X Not applicable.

NA Not available.

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

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 Floriculture and Nursery Products* (October 5, 2017) <[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Flowers\\_and\\_Nursery\\_Products](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Flowers_and_Nursery_Products)> accessed October 24, 2017.

**Table 19.22-- AQUACULTURE OPERATIONS, BY NUMBER, PRODUCTION AND VALUE: 2011 TO 2016**

<b>Subject</b>	<b>2011</b>	<b>2012</b>	<b>2013 1/</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
Farms	70	70	(NA)	(NA)	(NA)	(NA)
Peak number of workers	(NA)	(NA)	(NA)	(NA)	406	500
Production (1,000 lb.)						
Shellfish	55	(D)	(NA)	(D)	(D)	(D)
Finfish	315	(D)	(NA)	(D)	(D)	(D)
Value (\$1,000)	39,970	55,740	(NA)	78,241	76,234	75,710
Shellfish	413	(D)	(NA)	(D)	(D)	(D)
Finfish	1,493	(D)	(NA)	(D)	(D)	(D)
Algae	25,230	28,420	(NA)	33,086	33,808	34,349
Ornamental	2,514	(D)	(NA)	(D)	(D)	(D)
Other 2/	10,320	27,320	(NA)	45,155	42,426	41,361

NA Not available.

D Withheld to avoid disclosing data for individual farms but included in 'Other'.

1/ 2013 data were collected by the Census of Aquaculture. Numbers are not comparable.

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

Source: USDA National Agricultural Statistics Service, *Hawaii Aquaculture* (annual)

<[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Miscellaneous/index.php](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Miscellaneous/index.php)>

October 31, 2017.

**Table 19.23-- AGRICULTURAL CHEMICALS USED, INCLUDING FERTILIZER: 2007 AND 2012**

<b>Chemicals used</b>	<b>Unit</b>	<b>2007</b>	<b>2012</b>
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

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

**Table 19.24-- FARMS, LAND, AND VALUE OF SALES OF  
CERTIFIED ORGANIC AGRICULTURAL PRODUCTS: 2016**

Subject	Farms	Acres	Amount (\$1,000)
Certified organic farms	113	(NA)	(X)
Certified organic acres operated	113	7,163	(X)
Cropland	108	6,597	(X)
Pastureland/rangeland	13	566	(X)
Land owned	87	6,390	(X)
Land rented from others	36	773	(X)
Land rented to others	-	-	(X)
Total value of certified organic agricultural products sold	113	(NA)	13,408
Crops, including nursery and greenhouse	108	(NA)	11,718
All vegetables	45	255	6,153
All citrus fruits	24	(D)	(D)
All berries and other fruits	55	411	3,895
All tree nuts	4	(D)	(D)
All field crops	12	420	994
Propagative materials	2	(D)	(D)
Crops under glass or other protection 1/			
Mushrooms	2	(D)	(D)
Tomatoes	5	18,000	39
Other vegetables and fresh herbs	7	22,000	89
Christmas trees harvested	2	(D)	(D)
Livestock and poultry	3	(NA)	(D)
Livestock and poultry products	3	(NA)	(D)

X Not applicable.

NA Not available.

D Withheld to avoid disclosing data for individual farms.

1/ Area reported in square feet rather than acres.

Source: USDA National Agricultural Statistics Service, *Certified Organic Survey 2016 Summary* (September 2017) <[https://www.nass.usda.gov/Publications/Todays\\_Reports/reports/census17.pdf](https://www.nass.usda.gov/Publications/Todays_Reports/reports/census17.pdf)> accessed June 28, 2018.

**Table 19.25-- GENERAL EXCISE TAX BASE FOR PRODUCING:  
1998 TO 2017**

[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]

<b>Year 1/</b>	<b>Amount</b>	<b>Year 1/</b>	<b>Amount</b>
1998	478,201	2008	448,975
1999	501,501	2009	351,578
2000	519,272	2010	339,035
2001	499,896	2011	399,078
2002	522,418	2012	401,496
2003	543,561	2013	392,735
2004	550,949	2014	336,675
2005	613,694	2015	337,702
2006	480,012	2016	283,553
2007	475,827	2017	346,653

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) <[http://tax.hawaii.gov/stats/a5\\_3txcolrptarchive/](http://tax.hawaii.gov/stats/a5_3txcolrptarchive/)> accessed May 21, 2018.