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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 2017 *United States Census of Agriculture*; 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.

**Table 19.01-- FARMS BY SIZE, LAND IN FARMS, AND VALUE OF LAND, BUILDINGS, AND EQUIPMENT: 2007, 2012, 2017 AND 2022**

Item	Unit	2007	2012	2017	2022
Farms	Number	7,521	7,000	7,328	6,569
Land in farms	Acres	1,121,329	1,129,317	1,135,352	1,053,302
Farms by size					
1 to 9 acres	Number	4,813	4,412	4,868	4,231
10 to 49 acres	Number	1,972	1,752	1,693	1,679
50 to 179 acres	Number	423	480	396	348
180 to 499 acres	Number	154	172	171	121
500 to 999 acres	Number	44	57	74	69
1,000 to 1,999 acres	Number	50	48	43	47
2,000 acres or more	Number	65	79	83	74
Average size of farm	Acres	149	161	155	160
Median size of farm	Acres	5	5	5	5
Total cropland	Farms	6,281	5,551	5,826	5,269
	Acres	177,626	174,042	191,175	158,053
Harvested cropland	Farms	6,044	5,293	5,316	4,943
	Acres	103,120	99,031	84,767	60,378
Irrigated land	Farms	2,810	2,498	2,250	2,216
	Acres	58,635	81,813	45,452	41,851
Value of land and buildings					
Average per farm	Dollars	1,146,213	1,461,342	1,445,188	1,829,687
Average per acre	Dollars	7,688	9,058	9,328	11,411
Estimated market value of all machinery and equipment					
Total	\$1,000	304,997	307,994	371,436	401,539
Average per farm	Dollars	40,666	43,999	50,701	61,145

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; and *2017 Census of Agriculture*, "Table 1. County Summary Highlights" <[https://www.nass.usda.gov/Publications/AgCensus/2017/Full\\_Report/Volume\\_1,\\_Chapter\\_2\\_County\\_Level/Hawaii/](https://www.nass.usda.gov/Publications/AgCensus/2017/Full_Report/Volume_1,_Chapter_2_County_Level/Hawaii/)> accessed April 15, 2019; and *2022 Census of Agriculture* "Table 1. County Summary Highlights" <[https://www.nass.usda.gov/Publications/AgCensus/2022/Full\\_Report/Volume\\_1,\\_Chapter\\_1\\_State\\_Level/Hawaii/](https://www.nass.usda.gov/Publications/AgCensus/2022/Full_Report/Volume_1,_Chapter_1_State_Level/Hawaii/)> accessed February 27, 2024.

**Table 19.02-- FARMS, MARKET VALUE AND VALUE OF SALES:  
2007, 2012, 2017, AND 2022**

Item	Unit	2007	2012	2017	2022
Total farms in Hawaii	Number	7,521	7,000	7,328	6,569
Farms by value of sales					
Less than \$2,500	Number	2,932	2,130	2,671	2,172
\$2,500 to \$4,999	Number	1,012	902	784	709
\$5,000 to \$9,999	Number	996	1,058	1,070	998
\$10,000 to \$24,999	Number	1,143	1,397	1,176	1,058
\$25,000 to \$49,999	Number	557	684	707	659
\$50,000 to \$99,999	Number	353	323	389	394
\$100,000 to \$499,999	Number	380	358	368	390
\$500,000 or more	Number	148	148	163	189
Market value of agricultural products sold	\$1,000	513,626	661,347	563,803	673,776
Crops, inc. nursery & greenhouse crops	\$1,000	429,916	538,873	417,069	514,495
Livestock, poultry, and their products	\$1,000	83,711	122,474	146,733	159,282
Average market value of agricultural products sold per farm	Dollars	68,292	94,478	76,938	102,569

Source: USDA National Agricultural Statistics Service, *2022 Census of Agriculture, Vol. 1, Chapter 1, Hawaii*, "Table 1. Historical Highlights: 2022 and Earlier Census Years" <[https://www.nass.usda.gov/Publications/AgCensus/2022/Full\\_Report/Volume\\_1,\\_Chapter\\_1\\_State\\_Level/Hawaii/st15\\_1\\_001\\_001.pdf](https://www.nass.usda.gov/Publications/AgCensus/2022/Full_Report/Volume_1,_Chapter_1_State_Level/Hawaii/st15_1_001_001.pdf)> accessed February 27, 2024.

**Table 19.03-- FARMS BY SIZE, LAND IN FARMS, AND VALUE OF LAND, BUILDINGS AND EQUIPMENT, BY COUNTY: 2022**

Item	Unit	State total	Hawaii County	City and Co. of Honolulu	Kauai County	Maui County
Farms	Number	6,569	3,638	1,002	524	1,405
Land in farms	Acres	1,053,302	604,184	60,254	130,646	258,218
Farms by size						
1 to 9 acres	Number	4,231	2,202	746	327	956
10 to 49 acres	Number	1,679	1,037	180	133	329
50 to 179 acres	Number	348	209	43	33	63
180 to 499 acres	Number	121	83	14	10	14
500 to 999 acres	Number	69	41	6	5	17
1,000 or more acres	Number	121	66	13	16	26
Average size of farm	Acres	160	166	60	249	184
Median size of farm	Acres	5	6	4	5	4
Total cropland	Farms	5,269	2,844	861	406	1,158
	Acres	158,053	53,076	22,756	20,514	61,707
Harvested cropland	Farms	4,943	2,663	843	382	1,055
	Acres	60,378	29,804	10,474	5,569	14,531
Irrigated land	Farms	2,216	794	548	192	682
	Acres	41,851	5,644	14,418	6,817	14,972
Estim. market value of land and buildings						
Average per farm	Dollars	1,829,687	1,475,748	1,797,225	3,300,039	2,220,926
Average per acre	Dollars	11,411	8,886	29,887	13,326	12,084
Estim. market value of all machinery & equipment						
Average per farm	\$1,000	401,539	198,631	88,467	42,701	71,740
	Dollars	61,145	54,599	88,467	81,490	51,060
Market value of agricultural products sold						
Average per farm	\$1,000	673,776	290,342	192,823	96,705	93,906
	Dollars	102,569	79,808	192,438	184,552	66,837
Crops, including nursery & greenhouse crops	\$1,000	514,495	177,913	168,670	79,484	88,427
Livestock, poultry, & their products	\$1,000	159,282	112,429	24,153	17,221	5,479

Source: USDA National Agricultural Statistics Service, *2022 Census of Agriculture*, Hawaii, County Data, "Table 1. County Summary Highlights: 2022" <[https://www.nass.usda.gov/Publications/AgCensus/2022/Full\\_Report/Volume\\_1,\\_Chapter\\_2\\_County\\_Level/Hawaii/st15\\_2\\_001\\_001.pdf](https://www.nass.usda.gov/Publications/AgCensus/2022/Full_Report/Volume_1,_Chapter_2_County_Level/Hawaii/st15_2_001_001.pdf)> accessed February 27, 2024.

**Table 19.04-- FARM PRODUCTION EXPENSES: 2007, 2012, 2017 AND 2022**

[In thousands of dollars]

Item	2007	2012	2017	2022
Total farm production expenses	486,648	659,262	575,703	620,263
Selected farm production expenses				
Livestock and poultry purchased or leased	3,343	3,880	5,011	5,368
Feed purchased	24,678	43,811	36,783	39,712
Fertilizer, lime, and soil conditioners purchased	29,807	46,584	31,787	29,639
Gasoline, fuels, and oils purchased	24,443	33,157	23,512	24,120
Hired farm labor	178,496	269,907	230,205	231,557
Interest expense	14,838	13,208	21,587	16,517
Chemicals purchased	17,238	32,993	17,684	18,325

Source: USDA National Agricultural Statistics Service, *2022 Census of Agriculture, Vol. 1, Chapter 1, Hawaii*, "Table 1. Historical Highlights: 2022 and Earlier Census Years" <[https://www.nass.usda.gov/Publications/AgCensus/2022/Full\\_Report/Volume\\_1,\\_Chapter\\_1\\_State\\_Level/Hawaii/st15\\_1\\_001\\_001.pdf](https://www.nass.usda.gov/Publications/AgCensus/2022/Full_Report/Volume_1,_Chapter_1_State_Level/Hawaii/st15_1_001_001.pdf)> accessed February 27, 2024.

**Table 19.05-- FARM INCOME AND EXPENSES: 2019 TO 2022**[In thousands of dollars. 2019 to 2021 revised from previous *Data Book*]

Item	2019	2020	2021	2022
Cash receipts from marketings	562,375	562,214	643,360	648,068
Livestock and products	151,706	140,060	158,793	176,279
Crops	410,669	422,154	484,567	471,789
Other income	70,176	135,180	92,458	76,692
Government payments	13,570	81,838	38,410	19,226
Imputed and misc. income received 1/	56,606	53,342	54,048	57,466
Production expenses	632,557	665,720	660,858	715,714
Feed purchased	34,913	33,385	38,322	49,137
Livestock purchased	4,992	5,132	5,531	6,335
Seed purchased	11,976	12,993	12,598	14,067
Fertilizer, lime and agricultural chemicals	45,756	49,603	57,807	71,202
Petroleum products purchased	23,023	20,912	24,302	32,269
Hired farm labor expenses 2/	225,121	239,859	239,691	274,355
All other production expenses 3/	286,776	303,836	282,607	268,349
Value of inventory change	-596	1,164	1,371	4,761
Livestock	-532	1,130	1,185	4,573
Crops	-	-	-	-
Materials and supplies	-64	34	186	188

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; depreciation, interest, rent and taxes; and other miscellaneous expenses including agricultural chemicals.

Source: U.S. Bureau of Economic Analysis, "Local Area Personal Income and Employment, Farm Income and Expenses" (CAINC45) <<https://apps.bea.gov/iTable/>> accessed April 2, 2024.

**Table 19.06-- FARM ORGANIZATION AND SELECTED PRODUCER CHARACTERISTICS: 2017 AND 2022**

[Starting with the 2022 Census of Agriculture, characteristics are included for all producers, including principal producers, non-principal producers, and primary producers. Data were collected for a maximum of four producers per farm. Data for 2017 were revised by the source to match the new methodology. Data from previous Censuses of Agriculture were for principal producers only and may not be comparable]

Organization or producer characteristic	2017	2022
Total farms	7,328	6,569
Total producers	12,170	11,833
Farm by type of organization		
Family or individual	5,733	5,213
Partnership	569	414
Corporation	737	759
Other 1/	289	183
Producers by primary occupation		
Farming 2/	5,780	5,997
Other 3/	6,390	5,836
Producers by days worked off farm		
None	4,063	4,141
Any	8,107	7,692
1 to 49 days	1,512	1,431
50 to 99 days	884	915
100 to 199 days	1,443	1,458
200 days or more	4,268	3,888
Producers' place of residence		
On farm operated	8,384	8,139
Not on farm operated	3,786	3,694
Producers by sex		
Male	7,126	6,739
Female	5,044	5,094
Producers by race and Hispanic origin		
American Indian or Alaska Native	56	70
Asian	3,219	2,864
Black or African American	22	21
Native Hawaiian or Other Pacific Islander	1,121	989
White	6,302	6,291
More than one race	1,450	1,598
Hispanic, Latino, or Spanish origin, of any race	767	697

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**Table 19.06-- FARM ORGANIZATION AND SELECTED PRODUCER CHARACTERISTICS: 2017 AND 2022 -- Con.**

Organization or producer characteristic	2017	2022
Producers by age group		
Under 25 years	112	133
25 to 34 years	645	632
35 to 44 years	1,037	1,307
45 to 54 years	1,675	1,427
55 to 64 years	3,540	2,688
65 to 74 years	3,705	3,804
75 years and over	1,456	1,842
Average age	60.1	60.7

1/ Including estates or trusts, prison farms, grazing associations, American Indian reservation, etc.

2/ The producer spent 50 percent or more of his/her worktime farming or ranching.

3/ The producer spent less than 50 percent of his/her worktime farming or ranching.

Source: USDA National Agricultural Statistics Service, 2022 Census of Agriculture (February 2024), "Table 1. Historical Highlights: 2022 and Earlier Census Years" and "Table 52. Selected Producer Characteristics: 2022 and 2017" <<https://www.nass.usda.gov/AgCensus/index.php>> accessed February 27, 2024.

**Table 19.07-- NUMBER OF FARMS, FARM ACREAGE, AND AVERAGE FARM EMPLOYMENT: 2000 TO 2023**

Year	Number of farms 1/	Farm acreage (1,000) 2/	Annual average farm employment 3/		
			Self-employed farm operators	Unpaid workers 4/	Hired workers
2000	5,500	5/ 1,380	3,100	1,000	7,800
2001	5,500	1,350	3,300	1,100	5/ 7,300
2002	5/ 5,500	5/ 1,300	3,000	1,100	7,500
2003	5,500	1,300	(6/)	(6/)	5/ 7,000
2004	5,500	5/ 1,200	(6/)	(6/)	5/ 7,200
2005	5,500	5/ 1,200	(6/)	(6/)	7,000
2006	5,500	1,160	(6/)	(6/)	7,000
2007	5/ 7,500	5/ 1,120	(6/)	(6/)	6,500
2008	5/ 7,400	5/ 1,100	3,300	900	5/ 6,000
2009	5/ 7,300	1,110	3,500	1,000	5/ 6,000
2010	7,200	1,100	3,800	1,000	6,300
2011	7,100	1,130	(6/)	(6/)	7,000
2012	7,000	1,130	(6/)	(6/)	6,500
2013	7,100	1,100	(6/)	(6/)	6,500
2014	7,100	1,100	(6/)	(6/)	7,000
2015	7,200	1,100	(6/)	(6/)	6,500
2016	7,300	1,100	(6/)	(6/)	6,000
2017	7,300	1,100	(6/)	(6/)	6,000
2018	7,300	1,100	(6/)	(6/)	6,300
2019	5/ 7,200	1,100	(6/)	(6/)	4,500
2020	5/ 7,100	1,100	(6/)	(6/)	4,300
2021	5/ 6,900	5/ 1,050	(6/)	(6/)	5,000
2022	5/ 6,600	5/ 1,050	(6/)	(6/)	5,300
2023	6,600	1,050	(6/)	(6/)	5,000

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. Annual averages are based on survey data for January, April, July, October.

4/ Includes family members and others that worked 15 or more hours during the survey week.

5/ Revised from previous *Data Book*.

6/ 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. Estimates were again discontinued beginning in October 2011.

Source: U.S. Department of Agriculture, National Agricultural Statistics Service, Quick Stats <<https://quickstats.nass.usda.gov/>> accessed April 17, 2024.

**Table 19.08-- FARM EMPLOYMENT: 1998 TO 2022**

[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 2011-2016 are based on the 2012 NAICS. The estimates for 2017 forward are based on the 2017 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	12,314	5,236	7,078
2002	11,978	4,795	7,183
2003	11,917	4,719	7,198
2004	11,596	4,604	6,992
2005	11,404	4,605	6,799
2006	11,304	4,513	6,791
2007	12,489	6,149	6,340
2008	11,661	6,006	5,655
2009	11,288	5,903	5,385
2010	11,510	5,848	5,662
2011	12,304	5,776	6,528
2012	11,735	5,636	6,099
2013	4/ 11,950	4/ 5,782	6,168
2014	4/ 13,161	4/ 5,785	7,376
2015	12,625	5,891	6,734
2016	12,255	5,961	6,294
2017	12,011	5,961	6,050
2018	4/ 12,531	4/ 5,955	6,576
2019	4/ 10,664	4/ 5,849	4/ 4,815
2020	4/ 10,365	4/ 5,876	4,489
2021	4/ 11,308	4/ 5,873	5,435
2022	11,581	5,874	5,707

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 NAICS Industry" (SAEMP25N) (September 29, 2023) and "Full-time and Part-time Wage and Salary Employment by NAICS Industry" (SAEMP27N) (September 29, 2023)

<<https://www.bea.gov/itable/>> accessed April 2, 2024.

**Table 19.09-- FARM EMPLOYMENT, BY COUNTY: 2007 TO 2022**

[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 2011-2016 are based on the 2012 NAICS. The estimates for 2017 and forward are based on the 2017 NAICS]

County and year	Total farm employment 1/	Farm proprietors employment 2/	Farm wage and salary employment 3/
State			
2007	12,489	6,149	6,340
2008	11,661	6,006	5,655
2009	11,288	5,903	5,385
2010	11,510	5,848	5,662
2011	12,304	5,776	6,528
2012	11,735	5,636	6,099
2013 4/	11,950	5,782	6,168
2014 4/	13,161	5,785	7,376
2015	12,625	5,891	6,734
2016	12,255	5,961	6,294
2017	12,011	5,961	6,050
2018 4/	12,531	5,955	6,576
2019 4/	10,664	5,849	4,815
2020 4/	10,365	5,876	4,489
2021 4/	11,308	5,873	5,435
2022	11,581	5,874	5,707
Hawaii County			
2007	6,362	3,847	2,515
2008	5,916	3,752	2,164
2009	5,666	3,680	1,986
2010	5,599	3,638	1,961
2011	5,776	3,584	2,192
2012	5,577	3,491	2,086
2013 4/	5,618	3,565	2,053
2014 4/	6,154	3,559	2,595
2015	6,033	3,598	2,435
2016	5,965	3,630	2,335
2017 4/	6,079	3,621	2,458
2018 4/	6,337	3,631	2,706
2019 4/	5,510	3,581	1,929
2020 4/	5,414	3,578	1,836
2021 4/	5,841	3,578	2,263
2022	5,974	3,579	2,395

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**Table 19.09-- FARM EMPLOYMENT, BY COUNTY: 2007 TO 2022 -- 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 County			
2007	2,167	737	1,430
2008	2,069	735	1,334
2009	2,120	736	1,384
2010	2,352	744	1,608
2011	2,717	750	1,967
2012	2,582	746	1,836
2013 4/	2,717	778	1,939
2014 4/	3,027	787	2,240
2015	2,910	822	2,088
2016	2,804	842	1,962
2017 4/	2,799	848	1,951
2018 4/	2,988	839	2,149
2019 4/	2,396	814	1,582
2020 4/	2,274	830	1,444
2021 4/	2,517	829	1,688
2022	2,552	829	1,723
Maui County 5/			
2007	2,874	941	1,933
2008	2,661	930	1,731
2009	2,463	925	1,538
2010	2,572	928	1,644
2011	2,790	929	1,861
2012	2,591	919	1,672
2013 4/	2,609	946	1,663
2014 4/	2,873	947	1,926
2015	2,606	971	1,635
2016	2,453	984	1,469
2017 4/	2,094	987	1,107
2018 4/	2,093	981	1,112
2019 4/	1,742	959	783
2020 4/	1,714	970	744
2021 4/	1,911	969	942
2022	1,956	969	987

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**Table 19.09-- FARM EMPLOYMENT, BY COUNTY: 2007 TO 2022 -- Con.**

County and year	Total farm employment 1/	Farm proprietors employment 2/	Farm wage and salary employment 3/
Kauai County			
2007	1,086	624	462
2008	1,015	589	426
2009	1,039	562	477
2010	987	538	449
2011	1,021	513	508
2012	985	480	505
2013 4/	1,006	493	513
2014 4/	1,107	492	615
2015	1,076	500	576
2016	1,033	505	528
2017 4/	1,039	505	534
2018 4/	1,113	504	609
2019 4/	1,016	495	521
2020 4/	963	498	465
2021 4/	1,039	497	542
2022	1,099	497	602

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. For counties, 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/ Includes Kalawao County.

Source: Bureau of Economic Analysis, "Local Area Personal Income and Employment, Total Full-Time and Part-Time Employment by Industry" (CAEMP25N) (November 16, 2023) and "Annual State Personal Income and Employment, Total Full-Time and Part-Time Employment by NAICS Industry" (SAEMP27N) (September 29, 2023) <<https://www.bea.gov/itable/>> accessed April 2, 2024; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 19.10-- VALUE OF CROP, LIVESTOCK, AND AQUACULTURE SALES: 1995 TO 2022**

[Thousands of dollars. Hawaii's last sugar cane operation ceased operations at the end of 2016. Pineapples from 2007 and beyond were not shown separately to avoid disclosure of individual operations. From 2007 to 2017 and in 2022, pineapples were included in "all crops" value. Data on pineapples from 2018 to 2021 are not available and are not included in the calculation of "all crops"]

Year	All crops, livestock, and aquaculture	All crops 1/	Livestock	Aquaculture
1995	506,692	421,089	72,296	13,307
1996	511,343	428,671	67,017	15,655
1997	504,705	420,306	67,799	16,600
1998	509,962	420,634	72,708	16,620
1999	531,094	443,111	69,881	18,102
2000	521,941	431,482	68,289	22,170
2001	524,378	437,438	64,740	22,200
2002	539,518	453,400	60,938	25,180
2003	548,123	461,680	58,793	27,650
2004	552,057	459,702	64,255	28,100
2005	582,785	493,991	60,396	28,398
2006	579,590	499,684	58,649	21,257
2007	577,999	498,338	54,551	25,110
2008	605,570	522,139	48,781	34,650
2009	641,850	553,862	55,658	32,330
2010	674,590	583,680	60,940	29,970
2011	719,474	602,881	76,623	39,970
2012	646,318	527,554	63,024	55,740
2013	641,703	521,182	61,856	2/ 58,665
2014	631,063	474,707	78,115	78,241
2015	604,052	446,850	80,968	76,234
2016	578,595	445,717	57,168	75,710
2017	563,803	417,069	3/ 57,467	76,367
2018	4/ 511,243	4/ 373,464	3/ 59,350	2/ 78,429
2019	4/ 500,585	4/ 367,100	5/ 55,014	78,471
2020	4/ 456,156	4/ 345,216	5/ 44,338	66,602
2021	4/ 497,132	4/ 366,194	5/ 51,268	79,670
2022	673,776	514,495	6/ 55,315	89,627

Continued on next page.

## Table 19.10-- VALUE OF CROP, LIVESTOCK, AND AQUACULTURE SALES: 1995 TO 2022 -- Con.

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

2/ Data come from the *Census of Aquaculture* and may not be comparable with other years.

3/ Includes cattle, hogs, milk, and honey. See Table 19.18 for details.

4/ Based on calculations of vegetables and melons; horticulture, floriculture, and nursery products; fruits and nuts and coffee.

5/ Includes cattle, hogs, and honey. See Table 19.18 for details.

6/ Includes cattle and hogs. See Table 19.18 for details.

Source: USDA National Agricultural Statistics Service, *Hawaii Annual Statistics Bulletin* (annual through 2013) <[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; Quick Stats <<https://quickstats.nass.usda.gov/>> accessed June 20, 2023; U.S. Dept. of Agriculture, National Agricultural Statistics Service, 2017 Census of Agriculture, Vol. 1, Chapter 1, Hawaii, "Table 2. Market Value of Agricultural Products Sold Including Landlord's Share, Food Marketing Practices, and Value-Added Products: 2017 and 2012" (April 2019) and "Table 2. Market Value of Agricultural Products Sold Including Landlord's Share, Food Marketing Practices, and Value-Added Products: 2022 and 2017" (February 2024) <<https://www.nass.usda.gov/Publications/AgCensus/>> accessed February 27, 2024; Hawaii Aquaculture (annual) <[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Livestock,\\_Poultry,\\_and\\_Dairy/Aquaculture/index.php](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Livestock,_Poultry,_and_Dairy/Aquaculture/index.php)> accessed June 20, 2023; USDA National Agricultural Statistics Service, Census of Aquaculture <[https://www.nass.usda.gov/Surveys/Guide\\_to\\_NASS\\_Surveys/Census\\_of\\_Aquaculture/index.php](https://www.nass.usda.gov/Surveys/Guide_to_NASS_Surveys/Census_of_Aquaculture/index.php)> accessed July 8, 2021; and calculations by the Hawaii State Department of Agriculture and records.



**Table 19.11-- CROPS, BY ACREAGE AND SALES: 2020 TO 2023**

Subject and crop	2020	2021	2022	2023
Acreage in crop (1,000 acres)				
Coffee (acres bearing)	6.9	6.8	1/ 7.4	7.5
Macadamia nuts (acres bearing)	17.0	1/ 16.3	16.2	16.0
Seed crops	1/ 2.4	1/ 2.0	1.9	1.9
Taro	(NA)	0.4	(NA)	(NA)
Vegetables and melons (harvested acreage)	4.3	5.1	5.2	(NA)
Value of crop sales (\$1,000)				
Coffee 2/	54,298	1/ 48,383	1/ 64,324	54,109
Flowers and nursery products	81,556	51,322	47,108	43,878
Macadamia nuts (in shell)	49,600	1/ 62,361	33,176	30,912
Seed crops	109,400	108,300	106,470	114,270
Taro	(NA)	6,359	(NA)	(NA)
Vegetables, ginger root, herbs, and melons 3/	49,815	64,860	72,980	(NA)

NA Not available.

1/ Revised from previous *Data Book*.

2/ Value is expressed in cherry basis.

3/ Includes noni, kava (‘awa), and others. 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 Seed Crops* (July 2023) <[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Seed%20Crops/](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Seed%20Crops/)> accessed June 4, 2024; *Hawaii Vegetable and Melon Crops* (February 2023) <[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Vegetables/](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Vegetables/)> accessed May 26, 2023; *Pacific Region - Hawaii Coffee: Final season estimates* (May 2024) and *Pacific Region - Hawaii Noncitrus Fruits* <[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Fruits\\_and\\_Nuts/](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Fruits_and_Nuts/)> accessed May 26, 2023; Hawaii Department of Agriculture, Market Analysis and News Branch, *Taro Statistics 2021* (October 2021); *Statistics on Floriculture 2023* (May 2024) <<https://hdoa.hawaii.gov/add/market-analysis-news-branch/>> accessed May 26, 2024.

**Table 19.12-- SEED CROPS, BY NUMBER OF FARMS, ACREAGE, OUTSHIPMENTS, AND VALUE: 2005/2006 TO 2022/2023**

[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	2/ 4,845	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	11	4,090	7,600	148,400	144,100	4,300
2017/2018	10	3,030	5,320	121,900	111,800	10,100
2018/2019	(NA)	2,790	4,195	116,000	112,500	3,500
2019/2020	(NA)	2,360	4,060	109,400	(D)	(D)
2020/2021 2/	(NA)	1,990	3,180	108,300	(D)	(D)
2021/2022 2/	(NA)	1,850	3,400	106,470	(D)	(D)
2022/2023 3/	(NA)	1,855	3,055	114,270	(D)	(D)

NA Not available.

D Values not meeting NASS publication standards combined to avoid disclosure.

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

2/ Revised from previous *Data Book*.

3/ Preliminary.

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

<[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Seed%20Crops/index.php](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Seed%20Crops/index.php)> accessed April 19, 2024.

**Table 19.13-- SELECTED CROPS HARVESTED AND LAND IN ORCHARDS, BY NUMBER OF FARMS, ACRES AND WEIGHT: 2007, 2012, 2017, AND 2022**

Item	Unit	2007	2012	2017	2022
Corn for grain	Farms	14	15	20	18
	Acres	3,115	5,198	4,899	2,176
	Bushels	124,878	367,142	521,944	154,463
Sugarcane for sugar 1/	Farms	9	18	9	(1/)
	Acres	(D)	(D)	30	(1/)
	Tons	(D)	(D)	435	(1/)
Vegetables harvested	Farms	901	960	915	975
	Acres	6,845	8,880	8,579	7,731
Potatoes	Farms	15	38	30	19
	Acres	7	26	149	95
Sweet potatoes	Farms	94	143	90	118
	Acres	297	882	876	539
Land in orchards 2/	Farms	4,443	3,488	3,901	3,371
	Acres	36,652	35,832	38,872	45,196
Pineapples harvested	Farms	42	42	3/ 258	274
	Acres	(D)	(D)	3/ 3,752	(D)

D Withheld to avoid disclosing data for individual farms.

1/ Hawaii's last sugar operation closed at the end of 2016. Per the U.S. Dept. of Agriculture, some sugarcane operations occurred in 2017 because some farms were selling off the last of their product.

2/ This category includes land in bearing age and nonbearing age fruit trees, citrus, or other groves, vineyards and nut trees of all ages, including land on which all fruit crops failed. Respondents also reported bearing age acres and nonbearing age acres by individual fruit and nut crops.

3/ Revised from previous *Data Book*.

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" (May 2014); *2017 Census of Agriculture, Vol. 1, Chapter 1, Hawaii*, "Table 1. Historical Highlights: 2017 and Earlier Census years" (April 2019); and *2022 Census of Agriculture*, "Table 1. Historical Highlights: 2022 and Earlier Census Years" and "Table 37. Specified Fruits and Nuts by Acres: 2022 and 2017" (February 2024) <<https://www.nass.usda.gov/AgCensus/index.php>> accessed February 27, 2024.

**Table 19.14-- SPECIALTY CROPS, FRUITS, AND VEGETABLES: 2022**

[Excludes organics. See Table 19.24 for sales of certified organic agricultural products]

Crop	Acreage bearing	Acreage harvested	Yield per acre (1,000 lb.) 1/ 2/	Price received (\$ per lb.) 3/	Utilized Production (1,000 lb.) 2/	Value of sales (\$1,000)
Specialty crops						
Coffee 4/	7,200	(NA)	4.0	2.26	27,410	61,947
Macadamia nuts 5/	16,200	(NA)	2.3	0.88	37,700	33,176
Seed crops	(NA)	(NA)	(X)	(X)	(X)	(NA)
Fruits						
Avocados	730	(NA)	1.0	1.35	600	807
Papayas	500	(NA)	16.7	0.64	7,020	4,462
Vegetables						
Beans, long	(NA)	50	1.5	2.20	75	165
Beans, snap	(NA)	120	2.4	2.41	290	700
Bittermelon	(NA)	20	2.5	2.50	50	125
Cabbage, Chinese	(NA)	190	12.2	1.31	2,320	3,050
Cabbage, mustard	(NA)	45	8.4	0.97	380	370
Daikon radish	(NA)	60	9.2	1.27	550	700
Eggplant	(NA)	60	16.0	1.27	960	1,220
Kale	(NA)	65	6.2	3.40	400	1,360
Lettuce, head	(NA)	120	12.7	2.89	1,520	4,400
Lettuce, leaf	(NA)	190	7.8	2.41	1,480	3,570
Lettuce, Romaine	(NA)	140	7.1	2.28	1,000	2,280
Onions, green	(NA)	95	16.0	2.59	1,520	3,930
Potatoes, sweet	(NA)	270	9.3	0.90	2,500	2,240
Pumpkins	(NA)	90	5.6	1.15	500	575

NA Not available.

X Not applicable.

1/ For vegetables, calculated as 'utilized production' divided by 'acreage harvested.' Avocados are converted from tons to pounds (1/2000). Some precision may be lost due to rounding in the source.

2/ For avocados, converted from tons to pounds (1/2000). Some precision is lost due to rounding in the source.

3/ For vegetables, calculated as 'value of sales' divided by 'utilized production.' Avocados are converted from tons to pounds (1/2000). Some precision may be lost due to rounding in the source.

4/ Valuation of coffee is in cherry basis.

5/ Valuation of macadamia nuts is in shells.

Source: USDA National Agricultural Statistics Service, *Hawaii Vegetable and Melon Crops* (February 2023) <[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Vegetables/](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Vegetables/)> accessed May 26, 2023; *Pacific Region - Hawaii Coffee: Final season estimates* (May 2023) and *Pacific Region - Hawaii Noncitrus Fruits* <[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Fruits\\_and\\_Nuts/](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Fruits_and_Nuts/)> accessed May 26, 2023; Quick Stats <<https://quickstats.nass.usda.gov/>> accessed May, 26, 2023; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 19.15-- TOP 20 AGRICULTURAL COMMODITIES: 2022**

Rank	Commodity	Value of production (\$1,000)
1	Seed Crops	114,270
2	Cattle	59,501
3	Coffee	59,103
4	Algae	45,429
5	Macadamia nuts	33,176
6	Basil	31,194
7	Chicken eggs	29,928
8	Cut and potted orchids	13,709
9	Foliage	11,411
10	Lettuce	10,250
11	Taro	1/ 6,359
12	Potted flowering plants	2/ 5,911
13	Bananas	5,885
14	Cut flowers and cut lei flowers	3/ 5,567
15	Papayas	4,462
16	Green onions	3,930
17	Ornamental - aquaculture	3,888
18	Cabbage	3,420
19	Livestock - hogs and pigs	2,895
20	Sweet potatoes	2,240

1/ Value listed is from 2021 as 2022 is not available.

2/ Excludes potted orchids.

3/ Excludes cut orchids.

Source: State of Hawaii Department of Agriculture, *2022 State of Hawaii Top 20 Commodities Produced*  
 <<https://hdoa.hawaii.gov/add/market-analysis-news-branch/>> accessed March 7, 2024.

**Table 19.16-- LIVESTOCK INVENTORY: 1992 TO 2023**

[In thousands. As of January 1 for cattle. As of December 1 for hogs and chicken. Marketing year for bee colonies]

Year	Cattle and calves					Hogs	Chickens 2/	Bee colonies
	Total	Milk cows	Beef cows	Calves	Other cattle 1/			
1992	200	10.0	77.0	53.0	60.0	35.0	1,109	9.0
1993	178	11.0	78.0	44.0	45.0	33.0	1,012	9.0
1994	165	11.0	78.0	39.0	37.0	35.0	981	9.0
1995	178	11.0	82.0	45.0	40.0	34.0	933	8.0
1996	174	10.0	81.0	44.0	39.0	28.0	876	8.0
1997	172	10.0	83.0	39.0	40.0	29.0	863	9.0
1998	180	9.0	88.0	40.0	43.0	29.0	747	8.0
1999	173	9.0	86.0	40.0	38.0	28.0	721	8.0
2000	164	9.0	84.0	35.0	36.0	26.0	722	7.0
2001	150	7.0	81.0	34.0	28.0	27.0	659	8.0
2002	152	7.0	78.0	35.0	32.0	24.0	625	7.0
2003	151	7.0	79.0	32.0	33.0	23.0	600	7.0
2004	156	6.0	82.0	36.0	32.0	22.0	598	8.0
2005	155	5.7	81.3	34.0	34.0	19.0	547	9.0
2006	161	4.6	87.4	35.0	34.0	16.0	470	10.0
2007	158	3.8	85.2	35.0	34.0	15.0	398	10.0
2008	152	2.3	82.7	34.0	33.0	13.0	375	10.0
2009	150	1.6	84.4	32.0	32.0	13.0	381	10.0
2010	151	1.8	81.2	36.0	32.0	12.5	366	10.0
2011	141	2.0	79.0	30.0	30.0	11.5	(NA)	9.0
2012	140	1.9	78.1	32.0	28.0	11.5	(NA)	10.0
2013	135	2.2	71.8	33.0	28.0	11.5	(NA)	13.0
2014	133	2.2	71.8	34.0	25.0	9.0	(NA)	15.0
2015	133	2.2	68.8	32.0	30.0	9.0	(NA)	16.0
2016	140	2.2	72.8	34.0	31.0	10.0	(NA)	18.0
2017	142	2.4	73.6	34.0	32.0	8.0	(NA)	19.0
2018	144	2.0	75.0	34.0	33.0	9.0	(NA)	17.0
2019	142	1.5	75.5	33.0	32.0	11.0	(NA)	16.0
2020	140	0.7	75.3	33.0	31.0	10.0	(NA)	15.0
2021	3/ 140	0.6	76.4	33.5	3/ 29.5	9.0	(NA)	20.0
2022	3/ 142	0.8	79.2	34.0	3/ 28.0	7.0	(NA)	(NA)
2023	148	0.6	82.4	35.5	29.5	8.0	(NA)	(NA)

NA Not available

1/ Includes other heifers, bulls, and steers.

2/ Excluding broilers.

3/ Revised from previous *Data Book*.

Source: USDA National Agricultural Statistics Service, Quick Stats <<https://quickstats.nass.usda.gov/>> accessed May 1, 2024, records, and calculations by the Department of Business, Economic Development and Tourism.

**Table 19.17-- LIVESTOCK SALES, BY TYPE: 1990 TO 2023**

[In thousands of dollars]

Year	Cattle 1/	Hogs 2/	Milk	Honey 3/
1990	28,735	7,252	30,760	738
1991	29,787	6,463	30,328	747
1992	29,235	6,521	32,495	671
1993	26,864	6,355	32,035	828
1994	18,458	6,209	31,747	432
1995	15,417	6,596	32,146	578
1996	13,175	6,585	29,234	1,004
1997	14,323	4,902	29,479	1,130
1998	16,861	5,235	33,293	727
1999	16,806	5,072	31,270	512
2000	19,204	4,425	28,102	643
2001	18,007	4,514	26,546	606
2002	18,326	4,788	22,467	1,057
2003	17,192	4,345	21,449	1,157
2004	22,534	4,463	20,175	1,221
2005	22,548	4,553	18,387	1,686
2006	26,452	4,158	14,508	1,125
2007	26,196	3,682	9,673	1,564
2008	24,305	3,359	5,460	1,431
2009	28,945	3,000	7,491	1,672
2010	30,892	3,661	8,750	2,118
2011	46,369	2,634	9,547	2,431
2012	52,426	2,429	9,644	3,113
2013	50,771	2,191	10,079	2,126
2014	61,444	4,972	10,514	3,195
2015	59,826	2,792	10,022	3,117
2016	42,769	1,740	9,161	4,699
2017	41,820	771	11,068	3,808
2018	4/ 45,984	4/ 487	9,464	3,362
2019	42,752	1,106	(NA)	1,664
2020	4/ 41,811	1,343	(D)	2,678
2021	45,667	4/ 1,472	(D)	3,083
2022	52,771	2,544	(D)	(D)
2023	81,103	1,839	(D)	(D)

NA Not available.

D Withheld to avoid disclosing data for individual operations.

1/ Excludes interfarm sales in-state; includes calves.

2/ Excludes interfarm sales in-state.

3/ Honey in production, for marketing year.

4/ Revised from previous *Data Book*.

Source: USDA National Agricultural Statistics Service, Quick Stats <<https://quickstats.nass.usda.gov/>> accessed June 10, 2024.

**Table 19.18-- LIVESTOCK AND POULTRY, INVENTORY AND SALES, BY NUMBER AND FARMS: 2007, 2012, 2017, AND 2022**

Item	Unit	2007	2012	2017	2022
Cattle and calves inventory	Farms	1,142	1,314	1,218	1,058
	Number	151,479	133,957	137,930	131,616
Beef cows	Farms	853	1,173	1,047	900
	Number	86,000	(D)	(D)	75,013
Milk cows	Farms	15	12	20	22
	Number	2,296	(D)	(D)	633
Cattle and calves sold	Farms	713	711	667	634
	Number	70,567	56,159	58,066	62,340
Hogs and pigs inventory	Farms	225	231	226	194
	Number	14,933	11,441	(D)	6,514
Hogs and pigs sold	Farms	148	131	155	132
	Number	20,569	12,529	(D)	6,143
Broilers and other meat-type chickens sold	Farms	7	22	31	25
	Number	(D)	2,639	8,356	8,918

D Withheld to avoid disclosing data for individual farms.

Source: USDA National Agricultural Statistics Service, *2022 Census of Agriculture, Vol. 1, Chapter 1, Hawaii*, "Table 1. Historical Highlights: 2022 and Earlier Census Years" <[https://www.nass.usda.gov/Publications/AgCensus/2022/Full\\_Report/Volume\\_1,\\_Chapter\\_1\\_State\\_Level/Hawaii/st15\\_1\\_001\\_001.pdf](https://www.nass.usda.gov/Publications/AgCensus/2022/Full_Report/Volume_1,_Chapter_1_State_Level/Hawaii/st15_1_001_001.pdf)> accessed February 27, 2024.



**Table 19.19-- FLORICULTURE AND NURSERY PRODUCTS: 1999 TO 2023**

Year	Number of farms	Growing area					Wholesale 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)	
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	(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
2017	(NA)	2,746	1,817	17,617	(NA)	2,300	3/ 77,550
2018	(NA)	2,562	2,280	17,149	(NA)	2,116	3/ 86,007
2019 4/	530	2,456	5,406	12,896	251	1,785	72,708
2020	(NA)	2,324	2,091	13,224	(NA)	1,973	3/ 81,555
2021	5/ 274	1,230	2,626	7,776	(NA)	991	6/ 51,322
2022	5/ 291	1,104	2,520	6,539	(NA)	896	6/ 47,108
2023	5/ 255	1,031	2,884	6,399	(NA)	818	6/ 43,878

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/ Wholesale value is reported for operations with production and sales over \$10,000.

4/ Data are from the 2019 Census of Horticulture and are not comparable to other years.

5/ Includes all commercial operations with \$10,000 or more in sales.

6/ Wholesale value is reported for operations with production and sales over \$100,000.

Source: USDA, National Agricultural Statistics Service, Hawaii Field Office, *Census of Horticulture* <[https://www.nass.usda.gov/Surveys/Guide\\_to\\_NASS\\_Surveys/Census\\_of\\_Horticultural\\_Specialties/index.php](https://www.nass.usda.gov/Surveys/Guide_to_NASS_Surveys/Census_of_Horticultural_Specialties/index.php)> accessed July 8, 2021; and *Hawaii Horticulture and Nursery Products* (annual) <[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Flowers\\_and\\_Nursery\\_Products/index.php](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Flowers_and_Nursery_Products/index.php)> accessed July 6, 2022. Hawaii Department of Agriculture (HDOA), *Statistics on Floriculture, State of Hawaii, 2023* (May 2024) <<https://hdoa.hawaii.gov/add/market-analysis-news-branch/>> accessed June 4, 2024; and calculations by the Hawaii State Department of Business Economic Development & Tourism.

**Table 19.20-- SELECTED FLORICULTURE AND NURSERY PRODUCTS,  
BY COMMODITY: 2021**

[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]

Commodity	Number of farms having sales 1/	Number sold		Value of sales (\$1,000)
		Unit	Number	
Selected cut flowers				
Anthuriums	28	1,000 stems	1,597	1,679
Proteas	16	1,000 stems	650	655
Orchids				
Cut, Dendrobiums	16	1,000 stems	660	642
Potted, Dendrobiums	46	1,000 pots	307	2,433
Potted, Phalaenopsis	27	1,000 pots	317	2,775
Foliage				
Potted, Palms	28	1,000 pots	(NA)	3,773
Potted flowering plants				
Anthuriums	22	1,000 pots	283	2,376
Poinsettias	18	1,000 pots	218	1,137
Plant rentals	27	(NA)	(NA)	1,708
Landscape Plant Materials 2/	117	(NA)	(NA)	20,593

NA Not available.

1/ Number of farms having sales during that year.

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, 2020 *Hawaii Horticulture and Nursery Products Annual Summary* <[https://www.nass.usda.gov/Statistics\\_by\\_State/Hawaii/Publications/Flowers\\_and\\_Nursery\\_Products/index.php](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Flowers_and_Nursery_Products/index.php)> accessed March 4, 2022.

**Table 19.21-- AQUACULTURE OPERATIONS, BY NUMBER OF WORKERS AND VALUE: 2017 TO 2022**

Subject	2017	2018	2019	2020	2021	2022
Peak number of workers	462	(1/)	369	352	408	416
Value (\$1,000)	76,367	(1/)	78,741	66,602	79,670	89,627
Shellfish	(D)	(1/)	(D)	(D)	(D)	(D)
Finfish	(D)	(1/)	(D)	(D)	(D)	(D)
Algae	35,190	(1/)	32,652	32,753	36,716	45,429
Ornamental	(D)	(1/)	2,643	3,561	3,616	3,888
Other 2/	41,177	(1/)	43,176	30,288	39,338	40,310

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

1/ 2018 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/](https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/)> accessed February 27, 2024.

**Table 19.22-- AGRICULTURAL CHEMICALS USED, INCLUDING FERTILIZER: 2017 AND 2022**

Chemicals used	Unit	2017	2022
Any fertilizer, manure, or chemicals used	Farms	3,941	3,465
Any fertilizer or chemical expense	Farms	4,790	4,187
	\$1,000	49,471	47,964
Manure used	Farms	622	502
	Acres treated	4,748	3,385
Organic fertilizer used	Farms	668	567
	Acres treated	5,235	4,930
Commercial fertilizer, lime and soil conditioners used	Farms	2,979	2,433
	Acres treated	100,104	77,755
Commercial fertilizer, lime and soil conditioners expenses	Farms	4,196	3,513
	\$1,000	31,787	29,639
Chemical expenses	Farms	3,803	3,419
	\$1,000	17,684	18,325
Acers treated to control-			
Insects	Farms	1,945	1,662
	Acres treated	50,380	33,906
Nematodes	Farms	178	426
	Acres treated	5,040	5,788
Diseases in crops and orchards	Farms	805	1,104
	Acres treated	8,963	21,598
Weeds, grass, or brush	Farms	2,439	1,991
	Acres treated	93,195	74,641
Chemicals used on crops to control growth, thin fruit, ripen, or defoliate	Farms	228	434
	Acres treated	3,506	8,938

Source: U.S. Department of Agriculture, *2022 Census of Agriculture, Vol. 1, Chapter 1, Hawaii*, "Table 46. Fertilizers and Chemicals Applied: 2022 and 2017" (February 2024) <<https://www.nass.usda.gov/AgCensus/>> accessed February 24, 2024.

**Table 19.23-- FARMS, LAND, AND VALUE OF SALES OF CERTIFIED ORGANIC AGRICULTURAL PRODUCTS: 2021**

Subject	Farms	Acres	Amount (\$1,000)
Certified organic farms	144	(NA)	(X)
Certified organic acres operated	144	3,117	(X)
Cropland	139	2,563	(X)
Pastureland/rangeland	15	554	(X)
Land owned	106	1,723	(X)
Land rented from others	54	(D)	(X)
Land rented to others	2	(D)	(X)
Total value of certified organic agricultural products sold	144	(NA)	17,497
Crops, including nursery and greenhouse	139	(NA)	15,247
All vegetables	46	276	7,717
All citrus fruits	34	81	183
All berries and other fruits	79	894	3,693
All tree nuts	12	(D)	1,739
All field crops	10	60	107
Propagative materials	2	(D)	(D)
Crops under glass or other protection			
Mushrooms	2	(D)	(D)
Tomatoes	2	(D)	(D)
Other vegetables and fresh herbs	14	1/ 64,510	1,009
Livestock and poultry	7	(X)	-
Poultry products	2	(X)	(D)
Other livestock products 2/	5	(X)	2,237

NA Not available.

X Not applicable.

D Withheld to avoid disclosing data for individual farms.

1/ Area reported in square feet rather than acres.

2/ This category includes semen, embryos, manure, feathers, etc., that was sold.

Source: USDA National Agricultural Statistics Service, *2021 Certified Organic Survey* (December 2022)

<[https://www.nass.usda.gov/Surveys/Guide\\_to\\_NASS\\_Surveys/Organic\\_Production/](https://www.nass.usda.gov/Surveys/Guide_to_NASS_Surveys/Organic_Production/)>

accessed April 24, 2023.

**Table 19.24-- GENERAL EXCISE TAX BASE FOR PRODUCING: 1998 TO 2023**

[In 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	478,200,600	2011	399,078,200
1999	501,500,800	2012	401,495,600
2000	519,272,000	2013	392,735,360
2001	499,896,000	2014	336,674,800
2002	522,418,200	2015	337,701,600
2003	543,561,000	2016	283,553,400
2004	550,948,600	2017	346,652,600
2005	613,694,000	2018	317,715,400
2006	480,012,000	2019	307,818,400
2007	475,827,000	2020	290,948,400
2008	448,975,400	2021	391,775,000
2009	351,578,020	2022	394,563,800
2010	339,034,600	2023	364,969,800

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 Collections" (annual tabular release) <[http://tax.hawaii.gov/stats/a5\\_3txcolrptarchive/](http://tax.hawaii.gov/stats/a5_3txcolrptarchive/)> accessed July 24, 2024.

**Table 19.25-- AGRICULTURE THEFT AND CRIME COST BY COUNTY:  
2004 AND 2019**

Year and subject	State total	Hawaii County	City and Co. of Honolulu	Kauai County	Maui County
2004					
Theft					
Loss (\$1,000)	1,946	634	798	185	329
Incidents	4,739	1,574	2,492	439	234
Vandalism					
Loss (\$1,000)	2,019	192	568	99	1,160
Incidents	1,153	494	133	79	447
Security Cost (\$1,000)	7,400	3,119	2,553	893	835
2019					
Theft					
Loss (\$1,000)	2,623	1,583	250	612	178
Incidents	3,616	1,953	784	402	477
Vandalism					
Loss (\$1,000)	502	217	(1/)	(1/)	157
Incidents	1,112	687	(1/)	(1/)	192
Security Cost (\$1,000)	11,227	7,783	1,619	1,033	792

1/ Does not meet NASS publication standards but included in State totals.

Source: USDA National Agricultural Statistics Service, *Hawaii Agricultural Theft and Vandalism* (October 2005; April 2020) <[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)> accessed April 29, 2020.