

Table
Number **Table Name**

(Click on the table number to go to corresponding table)
 (To return to this "Titles" sheet, you must select this sheet again)

19.01	Farms, Land in Farms, and Selected Items: 1997 and 2002
19.02	Farms and Land in Farms, by Counties: 2002
19.03	Number of Farms, Farm Acreage, and Farm Employment: 1980 to 2002
19.04	Value of Crop and Livestock Sales: 1980 to 2002
19.05	Number of Farms, Farm Acreage, and Farm Employment, by Counties: 1992, 2000, 2001, and 2002
19.06	Value of Crop and Livestock Sales, by Counties: 1992, 2000, 2001, and 2002
19.07	Acreage in Crop, Number of Crop Farms, and Value of Crop Sales: 1992, 2000, 2001, and 2002
19.08	Acreage in Crop, Number of Crop Farms, and Value of Crop Sales, by Counties: 2002
19.09	Specialty Crops, Fruits, and Vegetables: 2002
19.10	Sugarcane Acreage, by Type of Irrigation: 1984 to 2003
19.11	Livestock Inventory, 1984 to 2002, and by Geographic Areas, 2002
19.12	Number of Livestock Operations and Value of Livestock Sales: 1992, 2000, 2001, and 2002
19.13	Number of Livestock Operations and Value of Livestock Sales, by Counties: 2002
19.14	Floriculture and Nursery Products, 1994 to 2003, and by Islands, 2000 to 2003
19.15	Floriculture and Nursery Products, by Commodity: 2003
19.16	Out-of-State Sales of Floriculture and Nursery Products: 1999 to 2003
19.17	Agricultural Labor: Hired Workers on Farms by Type of Farm, 1993 to 2003
19.18	General Excise Tax Base for Producing: 1992 to 2003
19.19	Agricultural Chemicals Used, Including Fertilizer: 1992, 1997, and 2002
19.20	Aquaculture Industry Operations: 1970 to 2002
19.21	Aquaculture Operations, Acreage, Production, and Value, by Counties: 2001 and 2002

**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
1997 AND 2002**

Item	Unit	1997	2002
Farms	number	5,473	5,398
Land in farms	acres	1,439,071	1,300,499
Average size of farm	acres	263	241
Value of land and buildings: 1/			
Average per farm	dollars	632,281	842,875
Average per acre	dollars	2,405	3,507
Estimated market value of all machinery and equipment: 1/			
Total	\$1000	211,775	186,163
Average per farm	dollars	38,709	35,568
Farms by size:			
1 to 9 acres		3,456	3,440
10 to 49 acres		1,417	1,309
50 to 179 acres		318	335
180 to 499 acres		139	146
500 to 999 acres		43	61
1,000 acres or more		100	107
Total cropland	farms	4,882	4,755
	acres	292,107	211,120
Harvested cropland	farms	4,594	4,522
	acres	100,094	109,461
Irrigated land	farms	2,241	2,231
	acres	76,971	69,194
Market value of agricultural products sold	\$1000	496,935	533,423
Average per farm	dollars	90,798	98,819
Crops, including nursery and greenhouse crops	\$1000	401,411	445,356
Livestock, poultry, and their products	\$1000	95,524	88,067
Farms by value of sales:			
Less than \$2,500		1,638	1,407
\$2,500 to \$4,999		743	714
\$5,000 to \$9,999		797	916
\$10,000 to \$24,999		989	1,056
\$25,000 to \$49,999		535	506
\$50,000 to \$99,999		323	314
\$100,000 or more		448	485

Continued on next page.

**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
1997 AND 2002 -- Con.**

Item	Unit	1997	2002
Farm by type of organization:			
Family or individual		4,583	4,629
Partnership		328	225
Corporation		497	472
Operators by days worked off farm:			
Any		2,827	2,612
200 days or more		1,566	1,661
Operators by principal occupation:			
Farming		3,052	3,125
Other		2,421	2,273
Average age of principal operator	years	55.0	56.5
Total farm production expenses 1/	\$1000	398,567	450,946
Livestock and poultry:			
Cattle and calves inventory	farms	829	748
	number	181,732	154,308
Beef cows	farms	625	578
	number	93,711	83,277
Milk cows	farms	44	27
	number	8,389	6,465
Cattle and calves sold	farms	660	550
	number	66,726	60,739
Hogs and pigs inventory	farms	248	204
	number	29,440	23,364
Hogs and pigs sold	farms	190	158
	number	38,066	33,231
Broilers and other meat-type chickens sold	farms	9	17
	number	478,672	881,112

Continued on next page.

**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
1997 AND 2002 -- Con.**

Item	Unit	1997	2002
Selected crops harvested:			
Sugarcane for sugar	farms	13	2
	acres	31,483	(D)
	tons	2,873,712	(D)
Pineapples harvested	farms	27	34
	acres	12,992	10,211
	tons	348,428	314,626
Vegetables harvested	farms	657	633
	acres	6,549	6,554
Land in orchards	farms	2,786	2,833
	acres	37,906	34,908

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, *2002 Census of Agriculture, Vol.1, Part 11, Hawaii* (June 2004), table 1, pp. 6-7.

Table 19.02-- FARMS AND LAND IN FARMS, BY COUNTIES: 2002

Item	Unit	Hawaii	Honolulu	Kauai	Maui
Farms	number	3,216	794	565	823
Land in farms	acres	821,276	70,705	151,828	256,690
Average size of farm	acres	255	89	269	312
Value of land and buildings: 1/					
Average per farm	dollars	724,308	738,577	1,068,439	1,251,598
Average per acre	dollars	2,822	8,358	3,989	4,112
Estimated market value of all machinery and equipment: 1/					
Average per farm	dollars	23,981	37,543	66,074	58,849
Farms by size:					
1 to 9 acres		2,009	574	352	505
10 to 49 acres		818	152	127	212
50 to 179 acres		207	34	38	56
180 to 499 acres		90	15	21	20
500 to 999 acres		38	5	11	7
1,000 acres or more		54	14	16	23
Total cropland	farms	2,908	681	474	692
	acres	90,778	29,103	30,510	60,729
Harvested cropland	farms	2,791	656	426	649
	acres	55,529	13,757	11,771	28,404
Irrigated land	farms	908	545	316	462
	acres	9,041	13,703	19,595	26,855
Market value of agricultural products sold	\$1000	187,736	179,321	41,855	124,511
Average per farm	dollars	58,375	225,845	74,080	151,289
Crops, including nursery and greenhouse crops	\$1000	143,924	149,050	35,737	116,645
Livestock, poultry, and their products	\$1000	43,812	30,271	6,118	7,866

1/ Data are based on a sample of farms.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *2002 Census of Agriculture, Vol.1, Part 11, Hawaii* (June 2004), p.185.

**Table 19.03-- NUMBER OF FARMS, FARM ACREAGE, AND FARM
EMPLOYMENT: 1980 TO 2002**

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

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

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

3/ Working 15 or more hours per week.

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

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed February 23, 2004.

Table 19.04-- VALUE OF CROP AND LIVESTOCK SALES: 1980 TO 2002

[\$1,000]

Year	All crops and livestock	Crops				Livestock
		All crops	Sugar (unprocessed cane)	Pine-apples (fresh equiv.)	Other crops	
1980	634,101	552,877	385,100	76,596	91,181	81,224
1981	489,502	401,348	207,500	89,745	104,103	88,154
1982	507,268	428,860	230,800	94,364	103,696	78,408
1983	568,414	481,926	266,900	100,376	114,650	86,488
1984	550,517	463,502	256,200	89,928	117,374	87,015
1985	528,649	445,826	222,400	90,530	132,896	82,823
1986	564,717	481,312	233,800	99,720	147,792	83,405
1987	557,298	469,565	218,000	99,286	152,279	87,733
1988	573,962	485,293	209,900	107,402	167,991	88,669
1989	585,048	493,261	210,300	98,310	184,651	91,787
1990	595,030	506,586	213,800	106,365	186,421	88,444
1991	551,382	464,139	174,900	107,775	181,464	87,243
1992	520,227	431,958	153,700	102,100	176,158	88,269
1993	506,475	421,593	163,000	79,850	178,743	84,882
1994	503,780	427,150	160,100	78,890	188,160	76,630
1995	493,385	421,089	127,700	87,360	206,029	72,296
1996	495,688	428,671	108,100	95,914	224,657	67,017
1997	488,159	420,360	85,500	91,721	243,139	67,799
1998 1/	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 1/	499,730	431,482	62,200	101,530	267,752	68,248
2001 1/	502,181	437,438	57,800	96,337	283,301	64,743
2002	510,673	449,482	64,300	100,616	284,566	61,191

1/ Data have been revised from previous year *Data Book*.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed February 23, 2004.

Table 19.05-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, BY COUNTIES: 1992, 2000, 2001, AND 2002

County or island and year	Number of farms 1/	Farm acreage 2/ (1,000)	Farm employment		
			Self-employed farm operators	Unpaid family members 3/	Hired workers
State total:					
1992	4,800	1,590	3,100	1,300	9,500
2000	5,500	1,440	3,100	1,000	7,800
2001	5,300	1,440	3,300	1,100	7,400
2002 4/	5,300	1,440	3,000	1,100	7,500
Hawaii:					
1992	2,800	929	1,850	750	3,750
2000	3,300	870	1,800	550	2,700
2001	3,200	870	1,950	550	2,650
2002 4/	3,200	870	1,700	600	2,450
Honolulu:					
1992	900	92	650	350	2,350
2000	900	80	500	200	2,200
2001	800	80	550	250	2,300
2002 4/	800	80	550	250	2,100
Kauai:					
1992	400	214	200	100	1,100
2000	500	200	300	50	950
2001	500	200	350	150	650
2002 4/	500	200	250	100	750
Maui:					
1992	700	355	400	150	2,300
2000	800	290	500	150	2,000
2001	800	290	500	150	1,800
2002 4/	800	290	500	150	2,250

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/ Working 15 hours or more per week.

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

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); *Hawaii Agricultural Labor* (quarterly); and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed March 24, 2004.

**Table 19.06-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTIES:
1992, 2000, 2001 AND 2002**

[\$1,000]

County or island and year	All crops and livestock 1/	Crops				Livestock 1/
		All crops 1/	Sugar (unprocessed cane) 1/	Pine-apples 2/ (fresh equiv.)	Other crops 2/	
State total:						
1992	520,227	431,958	153,700	102,100	176,158	88,269
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	510,673	449,482	64,300	100,616	284,566	61,191
Hawaii:						
1992	168,406	140,235	38,200	(3/)	102,035	28,171
2000	154,240	128,161	-	(3/)	128,161	26,079
2001	160,258	134,380	-	(3/)	134,380	25,878
2002	153,036	125,388	-	(3/)	125,388	27,648
Honolulu:						
1992	152,483	108,965	27,300	45,430	36,235	43,518
2000	177,704	145,784	-	72,085	73,699	31,920
2001	177,462	146,504	-	69,222	77,282	30,958
2002	179,966	154,065	-	70,992	83,073	25,901
Kauai:						
1992	46,549	41,679	32,600	(3/)	9,079	4,870
2000	46,739	42,886	18,500	(3/)	24,386	3,853
2001	40,790	38,292	12,900	(3/)	25,392	2,498
2002	43,850	41,368	13,000	(3/)	28,368	2,482
Maui:						
1992	152,789	141,079	55,600	56,659	28,820	11,710
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	133,821	128,661	51,300	29,624	47,737	5,160

1/ 2001 data have been revised from previous year Data Book.

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

3/ Less than \$50,000.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed February 24, 2004.

Table 19.07-- ACREAGE IN CROP, NUMBER OF CROP FARMS, AND VALUE OF CROP SALES: 1992, 2000, 2001, AND 2002

Subject	1992	2000	2001	2002
Acreage in crop (1,000 acres):				
Sugarcane	145.7	60.0	46.0	47.5
Pineapples (land used for pineapple)	26.2	20.7	20.1	19.1
Vegetables and melons (harvested acreage) 1/	5.1	6.4	6.5	6.8
Fruits, excluding pineapples	6.8	7.1	7.1	6.5
Coffee	7.0	7.9	8.0	7.2
Macadamia nuts	20.5	18.4	18.0	18.0
All other crops 1/	4.4	7.3	8.7	8.2
Number of crop farms:				
Sugar	7	3	2	2
Pineapples	20	15	15	15
Vegetables and melons	950	580	575	600
Fruits (excluding pineapples)	1,040	1,254	1,059	1,099
Coffee	560	670	700	710
Macadamia nuts	680	650	650	650
Taro	180	185	170	150
Flowers and nursery products	690	735	790	805
Value of crop sales (\$1,000):				
Sugar (unprocessed cane) 2/	153,700	62,200	57,800	64,300
Pineapples (fresh equivalent)	102,100	101,530	96,337	100,616
Vegetables and melons	36,451	59,159	62,043	61,659
Fruits (excluding pineapples)	22,418	31,364	30,190	25,210
Coffee (parchment)	4,080	23,055	19,600	23,250
Macadamia nuts (in shell)	32,640	29,500	33,040	29,640
Taro	3,002	3,710	3,392	3,294
Seed Crops 1/ 2/ 3/	7,638	37,500	45,000	48,700
Flowers and nursery products 1/	69,679	82,684	88,597	92,069

1/ 2001 data have been revised from previous year *Data Book* .

2/ 2000 data have been revised from previous year *Data Book* .

3/ Seed crops have been included in this table, replacing field crops of previous years.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed March 15, 2004.

Table 19.08-- ACREAGE IN CROP, NUMBER OF CROP FARMS, AND VALUE OF CROP SALES, BY COUNTIES: 2002

Subject	Hawaii	Honolulu	Kauai	Maui
Acreage in crop (1,000 acres):				
Sugarcane	-	-	10.8	36.7
Pineapples (land used for pineapple)	(1/)	10.0	(1/)	9.1
Vegetables and melons (harvested acreage)	1.8	3.6	0.3	1.1
Fruits, excluding pineapples	4.3	1.0	0.8	0.4
Coffee	3.5	(D)	(D)	(D)
Macadamia nuts	(D)	(D)	(D)	(D)
All other crops	2.4	2.7	1.6	1.5
Number of crop farms:				
Sugar	-	-	1	1
Pineapples	6	2	5	2
Vegetables and melons	270	175	55	100
Fruits (excluding pineapples)	593	149	153	204
Coffee	680	(D)	(D)	(D)
Macadamia nuts	(D)	(D)	(D)	(D)
Taro	50	10	65	25
Flowers and nursery products	380	220	55	150
Value of crop sales (\$1,000):				
Sugar (unprocessed cane)	-	-	13,000	51,300
Pineapples (fresh equivalent)	(2/)	70,992	(2/)	29,624
Vegetables, ginger root, herbs, and melons	13,823	36,533	1,659	9,644
Fruits (excluding pineapples)	17,868	3,713	2,415	1,214
Coffee (parchment)	15,990	(D)	(D)	(D)
Macadamia nuts (in shell)	(D)	(D)	(D)	(D)
Taro	415	(D)	2,189	(D)
Seed crops	(D)	(D)	(D)	(D)
Flowers and nursery products	47,491	31,524	2,303	10,751

D Withheld to avoid disclosure of individual operations.

1/ Less than 50 acres.

2/ Less than \$50,000.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed February 24, 2004.

Table 19.09-- SPECIALTY CROPS, FRUITS, AND VEGETABLES: 2002

[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 (2001-02)	6,300	1.3	8,000	245.0	19,600
Fresh herbs	(X)	(X)	3,200	(X)	5,909
Ginger root	360	50.0	18,000	45.0	8,100
Macadamia nuts (2001-02)	18,000	3.1	62,000	58.0	32,480
Seed crops (2001-02)	3,300	(X)	6,340	(X)	32,800
Fruits:					
Bananas	1,490	18.8	28,000	38.0	10,640
Guavas	610	(X)	15,300	14.1	2,157
Papayas	1,950	28.2	55,000	26.5	14,598
Vegetables:					
Beans, Snap	210	5.2	1,100	97.0	1,067
Cabbage, Chinese	320	21.9	7,000	23.0	1,610
Cabbage, head	500	25.0	12,500	22.0	2,750
Corn, sweet	440	4.3	1,900	64.0	1,216
Cucumbers	370	14.3	5,300	44.0	2,332
Onions, dry	300	18.0	5,400	75.0	4,050
Onions, green	120	11.7	1,400	89.0	1,246
Peppers, green	210	14.8	3,100	60.0	1,860
Taro	1/ 440	(X)	6,400	53.0	3,392
Tomatoes	580	30.2	17,500	53.0	9,275
Watermelons	520	20.2	10,500	24.0	2,520

X Not applicable.

1/ Acreage in crop.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed March 20, 2003.

**Table 19.10-- SUGARCANE ACREAGE, BY TYPE OF IRRIGATION:
1984 TO 2003**

Year	Total cane land	Irrigated cane land		Unirrigated cane land
		Drip	Furrow or overhead	
1984	188,396	86,925	26,325	75,146
1985	187,858	89,129	24,323	74,406
1986	184,179	90,877	19,526	73,776
1987	180,967	88,812	18,602	73,553
1988	177,693	88,387	17,791	71,515
1989	170,816	86,030	16,687	68,099
1990	161,991	83,252	15,129	63,610
1991	155,608	80,366	13,745	61,497
1992	145,790	76,132	13,008	58,777
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	-	-

Source: Hawaiian Sugar Planters' Association, records; Alexander & Baldwin, Inc., "Water to the Roots," *Ampersand*, Spring 1987, pp. 3-6; and Hawaii Agriculture Research Center, records.

**Table 19.11-- LIVESTOCK INVENTORY, 1984 TO 2002, AND BY
GEOGRAPHIC AREAS, 2002**

[In thousands]

Year and geographic area	All cattle and calves 1/	Milk cows 1/	Hogs and pigs 2/	Chickens (excluding broilers) 2/	Bee colonies
1984	221	12	47	1,195	9
1985	209	11	55	1,210	9
1986	199	12	50	1,185	9
1987	203	12	47	1,212	9
1988	212	12	43	1,217	9
1989	205	11	39	1,216	9
1990	215	11	36	1,183	10
1991	200	10	34	1,213	10
1992	178	11	35	1,109	9
1993	165	11	33	1,012	9
1994	175	11	35	981	9
1995	178	11	34	933	8
1996	174	10	28	876	8
1997	172	10	29	863	9
1998	180	9	29	747	8
1999	173	9	28	721	8
2000 3/	164	8	26	722	7
2001 3/	150	8	27	659	8
2002	152	7	24	625	7
GEOGRAPHIC AREAS: 2002					
Hawaii County	113.6	(D)	2.8	(D)	(NA)
Honolulu County	8.4	4.7	12.8	495	(NA)
Kauai County	9.7	(D)	2.1	(D)	(NA)
Maui County	20.3	(D)	6.3	(D)	(NA)

NA Not available.

D Withheld to avoid disclosing data for individual operations.

1/ As of January 1 of the following year.

2/ As of December 1.

3/ Figure for milk cows revised from previous year *Data Book*.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed February 24, 2003.

Table 19.12-- NUMBER OF LIVESTOCK OPERATIONS AND VALUE OF LIVESTOCK SALES: 1992, 2000, 2001, AND 2002

Subject	1992	2000	2001	2002
Number of livestock operations, Dec. 31:				
Cattle 1/	900	800	800	800
Hogs	450	230	230	230
Milk	60	50	50	50
Eggs	55	55	55	55
Honey	14	33	30	29
Value of livestock sales (\$1,000):				
Cattle 2/	29,235	19,204	18,007	18,719
Hogs 2/ 3/	6,521	4,425	4,514	4,788
Milk	32,495	28,102	26,546	22,467
Eggs	15,846	10,598	9,640	8,724
Honey 3/	671	643	606	1,047

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

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

3/ 2001 data have been revised from previous year *Data Book* .

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed February 24, 2004.

Table 19.13-- NUMBER OF LIVESTOCK OPERATIONS AND VALUE OF LIVESTOCK SALES, BY COUNTIES: 2002

Subject	Hawaii	Honolulu	Kauai	Maui
Number of livestock operations, Dec. 31:				
Cattle 1/	460	60	110	170
Hogs	70	70	30	60
Milk	28	10	8	4
Eggs	28	15	4	8
Honey	16	(D)	(D)	(D)
Value of livestock sales (\$1,000):				
Cattle 2/	14,152	553	1,437	2,577
Hogs 2/	560	2,960	430	838
Milk	(D)	14,401	(D)	(D)
Eggs	(D)	6,184	(D)	(D)

D Withheld to avoid disclosure of individual operations.

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

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

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); and <http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed February 24, 2004.

**Table 19.14-- FLORICULTURE AND NURSERY PRODUCTS, 1994 TO 2003,
AND BY ISLANDS, 2000 TO 2003**

Island and year	Number of farms	Growing area					Wholesale value (\$1,000)
		Total (acres)	Green-house (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
State total:							
1994	660	2,290	3,770	21,600	18	1,690	67,005
1995	705	2,698	3,770	24,215	15	2,040	68,175
1996	690	2,212	2,820	23,405	10	1,600	68,870
1997	670	2,158	2,805	23,885	10	1,535	66,655
1998	745	2,679	2,810	24,200	9	2,050	73,207
1999	765	2,712	2,910	25,695	15	2,040	75,725
2000	735	2,719	3,235	25,180	7	2,060	82,684
2001	790	3,049	3,175	26,660	9	2,355	88,597
2002 1/	870	3,648	3,030	30,415	10	2,870	95,715
2003	795	3,373	2,815	29,410	13	2,620	97,686
Islands, 2000:							
Hawaii	335	1,456	2,425	20,675	6	920	47,499
Honolulu	205	584	395	3,480	-	515	24,001
Kauai	50	140	70	340	1	495	1,266
Maui	145	539	345	685	-	130	9,918
Islands, 2001:							
Hawaii	360	1,621	2,265	22,010	9	1,055	50,637
Honolulu	220	672	370	3,625	-	580	26,198
Kauai	60	164	115	295	-	155	1,864
Maui	150	592	425	730	-	565	9,898
Islands, 2002: 1/							
Hawaii	420	2,180	2,210	24,125	10	1,565	49,870
Honolulu	230	709	330	5,055	-	585	32,106
Kauai	65	193	90	495	-	180	2,633
Maui	155	566	400	740	-	540	11,106
Islands, 2003:							
Hawaii	375	1,946	2,190	23,435	13	1,345	50,819
Honolulu	210	685	220	5,000	-	565	32,349
Kauai	65	170	65	355	-	160	3,203
Maui	145	572	340	620	-	550	11,315

1/ Data have been revised from previous year *Data Book*.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary*, various issues.

**Table 19.15-- FLORICULTURE AND NURSERY PRODUCTS, BY
COMMODITY: 2003**

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

Commodity	Number of farms having sales	Number sold		Value of sales (\$1,000)
		Unit	Number	
Selected cut flowers:				
Anthuriums	61	1,000 dozens	806	5,794
Bird of Paradise	28	1,000 dozens	74	581
Ginger, red	56	1,000 dozens	135	978
Heliconias	58	1,000 dozens	71	795
Proteas	24	1,000 stems	1,978	1,545
Orchids:				
Sprays: Dendrobium	49	1,000 dozens	413	3,064
Sprays: Oncidiums	34	1,000 dozens	79	770
Potted: Dendrobiums	76	1,000 pots	1,309	7,166
Potted: Phalaenopsis	31	1,000 pots	247	1,699
Lei or individual flowers:				
Dendrobiums	29	Million blooms	26.2	839
Plumerias	13	Million blooms	21.2	537
Tuberose	7	Million blooms	32.2	1,484
Foliage:				
Potted, dracaena	32	(X)	(NA)	5,585
Potted, palms	49	(X)	(NA)	7,339
Ti leaves, cut	43	1,000 leaves	8,000	803
Potted flowering plants:				
Anthuriums	29	1,000 pots	148	806
Bromeliads	13	1,000 pots	122	505
Chrysanthemums	5	1,000 pots	145	632
Poinsettias	30	1,000 pots	333	1,371
Plant rentals	41	(X)	(NA)	3,681
Landscape plants	121	(X)	(NA)	18,454

X Not applicable.

NA Not available.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary*, (June 4, 2004), pp. 3-9.

Table 19.16-- OUT-OF-STATE SALES OF FLORICULTURE AND NURSERY PRODUCTS: 1999 TO 2003

[\$1,000. Based on F.O.B. island value. Includes both wholesale and retail sales]

Type	1999	2000	2001 1/	2002	2003
Total sales	45,945	49,450	52,100	47,870	50,900
Anthuriums, cut	10,685	10,600	8,800	7,700	8,500
Dendrobiums, sprays	2,875	3,395	3,500	3,400	3,600
Foliage, potted	12,785	13,525	15,800	10,700	11,000
Heliconias	970	1,400	1,020	1,040	1,200
Dendrobiums, potted	4,120	3,850	4,900	4,510	4,590
Proteas	2,130	1,930	1,560	1,620	1,800
Other flowers, nursery products	12,380	14,750	16,520	18,900	20,210

1/ Data have been revised from previous year *Data Book* .

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary*, (June 4, 2004), p. 14.

Table 19.17-- AGRICULTURAL LABOR: HIRED WORKERS ON FARMS BY TYPE OF FARM, 1993 TO 2003

[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

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

Source: Hawaii Agricultural Statistics Service, *Hawaii Agricultural Labor*, Quarterly, various issues.

**Table 19.18-- GENERAL EXCISE TAX BASE FOR PRODUCING:
1992 TO 2003**

[In \$1,000. 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	Year 1/	Amount
1992	408,662	1996	479,009	2000	519,272
1993	474,861	1997	505,557	2001	499,896
1994	467,174	1998	478,201	2002	522,418
1995	457,538	1999	501,501	2003	543,561

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).

**Table 19.19-- AGRICULTURAL CHEMICALS USED, INCLUDING FERTILIZER:
1992, 1997, AND 2002**

[Data are based on a sample of farms]

Chemicals used	Unit	1992	1997	1997
Any fertilizer, manure or chemical used 1/	farms	4,476	4,531	4,586
Commercial fertilizer 2/	farms	4,028	4,051	4,326
	acres on which used	200,723	133,927	127,996
	\$1,000	30,574	25,653	17,791
Agricultural chemicals	farms	3,853	3,834	3,627
	\$1,000	20,396	17,187	16,134
Sprays, dusts, granules, fumigants, etc., to control -- Insects on hay and other crops 3/	farms	1,790	1,604	1,840
	acres on which used	53,593	34,673	41,616
Nematodes in crops	farms	489	350	275
	acres on which used	15,587	11,086	8,169
Diseases in crops and orchards	farms	1,018	1,033	800
	acres on which used	21036	33,343	30,824
Weeds, grass, or brush in crops and pasture	farms	2,820	2,685	2,820
	acres on which used	178,422	122,576	101,258
Chemicals used for defoliation or for growth control of crops or thinning of fruit	farms	157	184	216
	acres on which used	40,292	15,184	26,378

1/ Data for 1997 exclude lime and manure.

2/ Expense data for 1997 exclude lime.

3/ Data for 1997 include treatment of crops, including hay, but not other land.

Source: U.S. Department of Agriculture, *1997 Census of Agriculture, Hawaii*, (March 1999), p. 23 and U.S. Department of Agriculture, *2002 Census of Agriculture, Hawaii*, (June 2004), p. 32.

Table 19.20-- AQUACULTURE INDUSTRY OPERATIONS: 1970 TO 2002

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

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> (1998-2002) accessed February 24, 2004.

**Table 19.21-- AQUACULTURE OPERATIONS, ACREAGE, PRODUCTION,
AND VALUE, BY COUNTIES: 2001 AND 2002**

Subject	State total	Hawaii	Honolulu	Kauai	Maui
2001					
Number of operations	80	33	32	4	11
Production (1,000 lb.)	(D)	(D)	(D)	(D)	(D)
Shellfish	1,166.0	425.0	304.0	(D)	(D)
Finfish	467.0	(D)	95.0	(D)	(D)
Algae	(X)	(X)	(X)	-	(X)
Value (\$1,000)	22,200.0	16,198.0	2,815.0	(D)	(D)
Shellfish	7,464.0	3,061.0	1,843.0	(D)	(D)
Finfish	2,404.0	(D)	491.0	(D)	(D)
Algae	9,684.0	9,021.0	(D)	-	(D)
Other 1/	2,648.0	(D)	(D)	(D)	(D)
2002					
Number of operations	70	26	30	4	10
Production (1,000 lb.)	(D)	(D)	(D)	(D)	(D)
Shellfish	1,378.0	269.0	414.0	(D)	(D)
Finfish	542.0	(D)	(D)	(D)	(D)
Algae	(X)	(X)	(X)	-	(X)
Value (\$1,000)	25,180.0	17,328.0	4,180.0	(D)	(D)
Shellfish	8,212.0	3,050.0	2,351.0	(D)	(D)
Finfish	2,683.0	(D)	(D)	(D)	(D)
Algae	10,505.0	9,627.0	(D)	-	-
Other 1/	3,780.0	(D)	(D)	(D)	(D)

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

X Not Applicable.

1/ Nonfood products: ornamental fish, seedstock, other.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual); and
<http://www.nass.usda.gov/hi/stats/t_of_c.htm> accessed February 24, 2004.