

Section 19

AGRICULTURE

This section presents statistics on agricultural land, farms, and specific crops, livestock, dairy products, and poultry. Related information appears in Section 6 (on land use), 11 and 15 (agricultural employment and earnings), and 22 (food processing).

There were 3,900 farms in Hawaii as of 1979, with a total area of 2,290,000 acres. Both figures have declined during the past decade. The value of crop sales in 1979 was \$361 million, or 126 percent higher than the total for 1969. Livestock sales amounted to \$78 million, or 98 percent more than the 1969 level. Combined crop and livestock sales ranged from \$55 million in Kauai County to \$146 million on the Big Island. Net farm income in 1978 was \$107 million. Major crops in 1979 were sugar (\$218 million in sales, up 107 percent over the decade), pineapple (\$69 million, or 96 percent over the 1969 total), and flowers and nursery products (\$21 million, or 431 percent more than in 1969). Diversified agriculture, defined as all crops other than sugar and pineapple, rose from \$19 million in 1969 to \$74 million in 1979, or approximately 284 percent. About 580 farms sold \$21 million of flowers and nursery products in 1979, chiefly anthuriums, potted foliage, orchids, and ornamentals and trees. Important products of livestock farms as of 1979 included cattle (\$28 million in sales), milk (\$25 million), and eggs (\$14 million). Coffee sales have fluctuated sharply during the past decade, but macadamia nuts and horticultural specialties have increased rapidly. In 1979, Hawaii produced 40 percent of the fresh market vegetables consumed locally, 29 percent of the fresh market fruits, 32 percent of the beef and veal, 23 percent of the chickens, none of the rice, and 91 percent of the eggs.

Aquaculture has been growing in importance in recent years. Freshwater prawn production was expected to exceed a quarter of a million pounds in 1979, with a value of more than \$1 million. Only five years earlier the corresponding figures had been only 11,000 lb. and \$38,500.

Statistics on Hawaiian agriculture exclude pakalōlō (marijuana) and other illicit plants. The police chiefs of the Big Island and Kauai have estimated the total cultivation of marijuana in their counties in 1979 at 125 and 12.8 tons, respectively, with values of \$50 million and \$5.1 million, but such figures are necessarily quite speculative.

Important sources for data on agriculture include the United States Census of Agriculture, generally conducted at five-year intervals, the annual report on Statistics of Hawaiian Agriculture issued by the Hawaii Agricultural Reporting Service, and data compiled by the Hawaii Agricultural Experiment Station, Hawaiian Sugar Planters' Association, and Pineapple Growers Association of Hawaii. Agricultural data for earlier years are summarized in Historical Statistics of Hawaii, Section 13. National statistics appear in Section 24 of the Statistical Abstract of the United States: 1979.

Table 381.-- AGRICULTURAL SUMMARY: 1964 TO 1978

Subject	1964	1969	1974	1978
Number of farms by size				
Total	4,864	3,896	3,020	4,312
Less than 10 acres	2,603	2,024	1,633	2,531
10 to 49 acres	1,594	1,281	872	1,209
50 to 179 acres	359	336	271	297
180 to 499 acres	168	140	127	146
500 to 999 acres	38	28	23	24
1,000 to 1,999 acres	22	17	24	32
2,000 or more acres	80	70	70	73
Farm acreage				
Total acreage (1,000)	2,354	2,058	2,119	1,981
Per farm (acres)	484	528	702	459
Total cropland (1,000)	370.9	379.8	351.6	333.3
Harvested cropland (1,000)	167.5	178.7	151.4	158.7
Irrigated land (1,000)	143.9	145.6	141.7	159.3
Other characteristics				
Average age of farm operators (years) .	51.0	53.1	55.4	52.7
Tenant operators (percent of total)	41.1	38.1	36.6	34.4
Regular hired workers ^{1/}	12,375	13,200	11,497	11,386
Average value of land and buildings:				
Per farm (\$1,000)	98.9	156.8	340.6	413.3
Per acre (dollars)	205	297	485	901
Market value of agricultural products sold:				
Total (\$1,000,000)	187.5	285.6	609.8	419.6
Per farm (\$1,000)	38.5	73.3	201.9	97.3
Percent of farms over \$2,500	46.5	55.6	69.8	67.5

^{1/} Working 150 days or more on all farms.

^{2/} 1978 data exclude sales of forest products.

Source: U.S. Bureau of the Census, 1974 Census of Agriculture, Vol. I, Part 11 (1977), pp. 1, 2, and 16, and 1978 Census of Agriculture, Preliminary Report, AC78-P-15-000.

Table 382.-- AGRICULTURAL SUMMARY, BY COUNTIES: 1978

Subject	State total	Counties			
		Hawaii	Hono- lulu	Kauai	Maui
Number of farms by size					
Total	4,312	2,261	1,057	369	625
Less than 10 acres	2,531	1,212	825	188	306
10 to 49 acres	1,209	742	162	114	191
50 to 179 acres	297	155	36	41	65
180 to 499 acres	146	85	16	11	34
500 to 999 acres	24	16	2	-	6
1,000 to 1,999 acres	32	13	9	5	5
2,000 or more acres	73	38	7	10	18
Farm acreage (thousands)					
Total acreage	1,981	1,147	126	286	422
Per farm	0.459	0.507	0.119	0.776	0.675
Total crop land	333.3	129.4	54.9	52.3	96.7
Harvested cropland	158.7	58.7	30.5	24.9	44.6
Irrigated land	159.3	21.9	38.4	36.8	62.2
Other characteristics					
Average age of farm operators (years)	52.7	52.8	53.1	53.1	51.3
Tenant operators (percent of total)	34.4	33.7	40.3	38.5	24.6
Regular hired workers ^{1/}	11,386	2,954	2,761	2,085	3,586
Average value of land and buildings:					
Per farm (\$1,000)	413.3	405.0	300.8	498.7	583.0
Per acre (dollars)	901	800	2,530	643	865
Market value of agricultural products sold:					
Total (\$1,000)	419,616	148,294	118,877	48,278	104,167
Per farm (\$1,000)	97.3	65.6	112.5	130.8	166.7
Percent of farms over \$2,500	67.5	68.5	71.5	59.9	61.8

^{1/} Working 150 days or more on all farms.

Source: U.S. Bureau of the Census 1978 Census of Agriculture, Preliminary Report, AC78-P-15-000 through 009 (August 1980).

Table 383.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES: 1969 TO 1979

Year	Number of farms ^{1/}	Farm acreage ^{2/} (1,000)	Value of crop and livestock sales (\$1,000)				
			Crops and live-stock	Sugar (un-processed cane)	Pine-apples (fresh equivalent)	Other crops	Live-stock
1969	4,600	2,310	199,101	104,900	35,500	19,214	39,487
1970	4,500	2,300	213,689	110,600	39,500	21,941	41,648
1971	4,400	2,300	221,692	115,800	40,300	22,539	43,053
1972	4,300	2,300	232,497	117,300	43,900	25,055	46,242
1973	4,100	2,300	266,161	141,900	39,600	29,392	55,269
1974	4,100	2,300	575,473	442,300	40,300	34,964	57,909
1975	4,100	2,300	377,552	237,000	41,600	40,688	58,264
1976	4,100	2,300	327,830	164,700	53,000	47,815	62,315
1977	4,100	2,300	325,372	144,200	62,500	53,664	65,008
1978	4,100	2,290	380,334	182,700	63,000	62,091	72,543
1979	3,900	2,290	439,156	217,600	69,500	73,809	78,247

^{1/} Farm definition revised in 1979.

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

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 384.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1969 TO 1979

Geographic area and year	Number of farms <u>1/</u>	Farm acreage <u>2/</u> (1,000)	Value of crop and livestock sales (\$1,000)				
			Crops and live-stock	Sugar (unpro-cessed cane)	Pine-apples (fresh equiv.)	Other crops	Live-stock
State total:							
1969	4,600	2,310	199,089	104,900	35,500	19,202	39,487
1978	4,100	2,290	380,334	182,700	63,000	62,091	72,543
1979	3,900	2,290	439,156	217,600	69,500	73,809	78,247
Hawaii Co.:							
1969	2,550	1,350	59,778	38,900	-	10,483	10,395
1978	2,400	1,337	126,029	68,600	-	34,697	22,732
1979	2,300	1,337	145,593	79,500	-	42,615	23,478
Maui Co.:							
1969	690	526	54,452	23,900	22,500	2,741	5,311
1978	500	524	90,176	43,600	28,300	10,353	7,923
1979	500	524	105,885	52,200	32,900	9,783	11,002
Oahu:							
1969	930	152	57,231	19,300	11,700	4,837	21,394
1978	850	149	118,625	30,900	34,700	13,908	39,117
1979	800	149	132,357	38,200	36,600	16,310	41,247
Kauai Co.:							
1969	430	282	27,628	22,800	1,300	1,141	2,387
1978	350	280	45,504	39,600	-	3,133	2,771
1979	300	280	55,321	47,700	-	5,101	2,520

1/ Farm definition revised in 1979.

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

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 385.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1969 TO 1979

Subject	1969	1978	1979
Acreege in crop (1,000 acres):			
Sugarcane	242.2	220.7	218.8
Pineapples (land used for pineapple)	62.4	43.0	44.0
Vegetables and melons (harvested acreage) ..	2.9	4.0	4.3
Fruits, excluding pineapples	3.5	5.2	5.3
Coffee	4.3	2.3	2.1
Macadamia nuts	8.7	10.2	11.4
Miscellaneous crops	2.2	6.0	4.9
Number of crop farms:			
Sugar	753	480	480
Pineapples	59	16	15
Vegetables and melons	501	542	535
Fruits (excluding pineapples)	444	641	683
Coffee	770	750	700
Macadamia nuts	262	464	466
Taro	138	132	121
Flowers and nursery products	500	600	580
Volume of crop marketings:			
Sugar, unprocessed cane (1,000 tons)	10,839	9,263	9,632
Pineapples, fresh equivalent (1,000 tons) ..	915	675	681
Vegetables and melons (1,000 lb.)	50,420	71,990	70,210
Fruits, excluding pineapples (1,000 lb.) ...	32,076	78,220	55,780
Coffee, parchment (1,000 lb.)	4,130	1,680	1,800
Macadamia nuts, in shell (1,000 lb.)	10,057	20,980	25,000
Taro (1,000 lb.)	8,605	7,680	6,640
Value of crop sales (\$1,000):			
Sugar (unprocessed cane)	104,900	182,700	217,600
Pineapples (fresh equivalent)	35,500	63,000	69,500
Vegetables and melons	6,394	16,535	18,337
Fruits (excluding pineapples)	3,477	10,321	11,788
Coffee (parchment)	1,466	2,117	2,610
Macadamia nuts (in shell)	2,474	11,287	15,500
Taro	671	1,029	1,089
Field crops (not estimated separately)	650	3,224	3,557
Flowers and nursery products	3,910	17,458	20,778
Forest products	160	120	150

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 386.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1979

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreege in crop (1,000 acres):				
Sugarcane	91.7	47.7	33.6	45.8
Pineapples (land used for pineapple)	-	32.0	12.0	-
Vegetables and melons (harvested acreage)	1.6	1.2	1.4	0.1
Fruits, excluding pineapples	3.6	0.3	0.8	0.6
Coffee	2.1	-	-	-
Macadamia nuts	11.1	(D)	(D)	(D)
Miscellaneous crops	1.1	1.8	1.3	0.7
Number of crop farms:				
Sugar	469	3	3	5
Pineapples	-	13	2	-
Vegetables and melons	198	73	217	47
Fruits (excluding pineapples)	407	44	158	74
Coffee	700	-	-	-
Macadamia nuts	460	2	1	3
Taro	41	29	2	49
Flowers and nursery products	290	95	170	25
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	4,036	2,110	1,494	1,992
Pineapples, fresh equivalent (1,000 tons)	-	491	190	-
Vegetables and melons (1,000 lb.)	27,910	24,220	16,000	2,090
Fruits, excluding pineapples (1,000 lb.)	37,380	5,370	6,180	6,860
Coffee, parchment (1,000 lb.)	1,800	-	-	-
Macadamia nuts, in shell (1,000 lb.)	24,930	(D)	(D)	(D)
Taro (1,000 lb.)	1,220	(D)	(D)	4,330
Value of crop sales (\$1,000):				
Sugar (unprocessed cane)	79,500	52,200	38,200	47,700
Pineapples (fresh equivalent)	-	32,900	36,600	-
Vegetables and melons	6,624	4,895	6,096	722
Fruits (excluding pineapples)	7,671	238	1,277	2,602
Coffee (parchment)	2,610	-	-	-
Macadamia nuts (in shell)	15,456	(D)	(D)	(D)
Taro	239	(D)	(D)	(D)
Field crops (not estimated separately) ...	100	1,536	986	935
Flowers and nursery products	9,780	2,899	7,946	153
Forest products	135	6	5	4

D Withheld to avoid disclosure of individual operations.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1979.

Table 387.-- VEGETABLES, FRUITS, COFFEE, NUTS, AND TARO: 1979

Crop <u>1/</u>	Acreage harvested <u>2/</u>	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales (\$1,000)
Vegetables:					
Beans, Snap	210	6.5	1,400	66.9	937
Cabbage, Chinese	335	19.7	6,600	15.2	1,003
Cabbage, Head	450	30.0	13,500	11.3	1,526
Cucumbers	270	17.5	4,700	26.1	1,227
Eggplant	60	26.2	1,570	42.0	659
Ginger root	75	24.8	1,860	61.2	1,138
Lettuce (head, semi-head)	650	14.5	9,400	21.1	1,983
Onions, Dry	70	17.0	1,190	45.0	536
Onions, Green	120	9.5	1,135	71.9	816
Tomatoes	270	23.0	6,200	35.0	2,170
Watercress	32	...	1,670	41.1	686
Fruits:					
Bananas	630	7.5	4,730	20.5	970
Papayas	2,210	18.6	41,015	23.2	9,510
Macadamia nuts (1979-1980)	9,600	2.8	26,660	62.9	16,769
Coffee (1979-1980)	1,800	1.2	2,190	143.0	3,132
Taro	405	...	6,640	16.4	1,089

1/ Data shown for crops with sales in excess of \$500,000.

2/ Acreage bearing for macadamia nuts; acreage in crop for watercress and taro.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture, 1979 (June 1980); Macadamia Nuts, Annual Summary (August 6, 1980); Hawaii Coffee, Annual Summary (September 18, 1980).

Table 388.-- LIVESTOCK INVENTORY: 1969, 1978, AND 1979

(In thousands)

Type of livestock	1969	1978	1979
All cattle and calves <u>1/</u>	246	215	213
Milk cows <u>1/</u>	13	13	13
Hogs and pigs <u>2/</u>	57	54	53
Chickens (excluding broilers) <u>2/</u> ..	1,271	1,333	1,306
Bee colonies	5	7	7

1/ As of following January 1.

2/ As of December 1.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 389.-- LIVESTOCK INVENTORY, BY GEOGRAPHIC AREAS: 1979

(In thousands)

Type of livestock	Hawaii County	Maui County	Oahu	Kauai County
All cattle and calves <u>1/</u>	121.0	42.5	31.4	18.1
Milk cows <u>1/</u>	1.5	1.2	9.9	0.5
Hogs and pigs <u>2/</u>	5.7	9.9	34.2	3.2
Chickens (excluding broilers) <u>2/</u> .	(D)	(D)	1,128	(D)

D Withheld to avoid disclosure of individual operations.

1/ As of January 1, 1980.

2/ As of December 1, 1979.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1979, pp. 66, 75, and 80.

Table 390.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS,
AND VALUE OF LIVESTOCK SALES: 1969 TO 1979

Subject	1969	1978	1979
Number of livestock operations, Dec. 31:			
Cattle ^{1/}	1,200	800	800
Hogs	650	650	650
Milk	130	70	70
Eggs	240	60	60
Broilers	36	10	10
Honey	25	28	28
Volume of livestock marketings:			
Beef (dressed weight; 1,000 lb.) ^{2/}	31,364	33,544	29,091
Pork (dressed weight; 1,000 lb.)	8,440	9,851	7,785
Milk (million lb.)	130.5	147.3	147.3
Eggs (million)	200	218	229
Broilers and chickens (1,000 lb. ^{3/})	5,462	6,786	7,136
Honey (1,000 lb.)	375	812	910
Value of livestock sales (\$1,000):			
Cattle ^{4/}	12,854	24,370	28,139
Hogs ^{4/}	4,029	7,947	7,027
Milk	12,624	23,715	24,894
Eggs	7,833	12,699	14,007
Broilers and chickens	2,042	3,335	3,655
Other	105	477	525

^{1/} Includes beef, dairy, and dairy replacement farms.

^{2/} Includes slaughter cattle, but excludes calves, shipped out-of-State.

^{3/} Ready-to-cook weight.

^{4/} Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Reporting System, Statistics of Hawaiian Agriculture (annual).

Table 391.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1979

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle ^{1/}	355	205	85	155
Hogs	80	100	360	110
Milk	24	17	24	5
Eggs	23	5	26	6
Broilers	(D)	(D)	(D)	(D)
Honey	3	5	8	12
Volume of livestock marketings:				
Beef (dressed weight; 1,000 lb.) ^{2/}	17,218	7,517	1,887	2,469
Pork (dressed weight; 1,000 lb.)	834	1,658	4,915	378
Milk (million lb.)	(D)	(D)	117.5	(D)
Eggs (million)	(D)	(D)	197.6	(D)
Broilers and chickens (1,000 lb. ^{3/})	(D)	(D)	6,739	(D)
Honey (1,000 lb.)	(D)	(D)	(D)	(D)
Value of livestock sales (\$1,000):				
Cattle ^{4/}	17,212	7,114	1,713	2,100
Hogs ^{4/}	784	1,625	4,227	391
Milk	(D)	(D)	19,975	(D)
Eggs	(D)	(D)	11,856	(D)
Broilers and chickens	(D)	(D)	3,444	(D)
Other	352	112	32	29

D Withheld to avoid disclosure of individual operations.

^{1/} Includes beef, dairy, and dairy replacement farms.

^{2/} Includes slaughter cattle, but excludes calves, shipped out-of-State.

^{3/} Ready-to-cook weight.

^{4/} Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Reporting System, Statistics of Hawaiian Agriculture 1979.

Table 392.-- FRESHWATER PRAWN FARMS, BY
TYPE OF OPERATION AND ISLAND:
DECEMBER 31, 1979

Operation and island	Number
All prawn farms	19
Type of operation:	
Full-time	7
Part-time	12
Island:	
Molokai	1
Oahu	17
Kauai	1

Source follows next table.

Table 393.-- FRESHWATER PRAWN ACREAGE, PRODUCTION, AND VALUE:
1970 TO 1979

Year	Acres of prawn ponds <u>1/</u>	Production (1,000 lb.)	Value (\$1,000)	Wholesale price per pound (dollars)
1970 <u>2/</u>	1.5
1971 <u>2/</u>	1.5
1972	1.5	4.3	15.0	3.50
1973	1.5	4.4	15.3	3.50
1974	5	11.0	38.5	3.50
1975	26	40.3	140.9	3.50
1976	26	43.3	151.6	3.50
1977	33	54.9	206.0	3.75
1978	107	110.2	420.0	3.82
1979 <u>3/</u>	275	205.0	815.9	3.98

1/ As of December 31.

2/ Data not available for production and value.

3/ Revised August 8, 1980

Source: Hawaii State Department of Planning and Economic Development, Aquaculture Development Program, The Hawaiian Prawn Industry, A Profile (December 1979), as revised August 8, 1980.

Table 394.-- FLOWERS AND NURSERY PRODUCTS, 1977 TO 1979, AND BY ISLAND, 1979

Island and year	Number of farms	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:							
1977	550	1,210	948	11,185	197	734	14,003
1978	600	1,203	1,421	13,874	140	712	17,458
1979	580	1,300	1,625	16,950	106	770	20,778
Islands, 1979:							
Hawaii	290	756	750	13,450	100	330	9,780
Kauai	25	26	70	165	1	20	153
Maui	95	207	200	450	2	190	2,899
Oahu	170	313	605	2,885	3	230	7,946

Source: Hawaii Agricultural Reporting Service, "Flower and Nursery Industry Tops \$20 Million in 1979," Hawaii Flowers & Nursery Products, Annual Summary (May 21, 1980).

Table 395.-- FLOWERS AND NURSERY PRODUCTS, BY KIND OF FLOWER: 1979

Kind of flower	Number of farms	Number of flowers sold		Wholesale value (\$1,000)
		Unit	Number	
Cut flowers :				
Anthuriums	180	1,000 dozens	2,111	5,568
Birds of paradise	16	1,000 dozens	13	33
Carnations	14	1,000 dozens	40	74
Chrysanthemums, pompon	12	1,000 bunches	325	282
Chrysanthemums, other	5	1,000 dozens	10	43
Gingers	27	1,000 dozens	(NA)	113
Proteas, sunburst cordifolium	10	1,000 stems	819	195
Proteas, other	7	1,000 stems	186	.86
Roses	5	1,000 dozens	246	726
Others	36	1,000 dozens	(NA)	385
Cut orchids:				
Cattleyas	16	1,000 flowers	51	30
Cymbidiums	18	1,000 flowers	628	245
Dendrobiums, sprays	26	1,000 dozens	44	192
Others	15	1,000 flowers	(NA)	45
Lei flowers:				
Carnations	21	Million flowers	36.8	1,140
Vanda Miss Joaquim	26	Million flowers	31.6	441
Plumerias	17	Million flowers	38.6	418
Tuberoses	3	Million flowers	21.1	401
Dendrobiums	9	Million flowers	2.8	73
Pikake	5	1,000 strands	69	81
Cut foliage:				
Ti leaves	35	Million leaves	11.5	285
Other greens	20	Million leaves	(NA)	149
Potted plants:				
Chrysanthemums	9	1,000 pots	189	523
Orchids	76	1,000 pots	460	1,508
Poinsettias	24	1,000 pots	120	323
Potted foliage	99	1,000 pots	(NA)	4,052
Other potted plants	73	1,000 pots	(NA)	914
Ornamentals and trees	73	1,000 pots	(NA)	1,027
Unfinished flower and foliage stock ..	54	1,000 pots	(NA)	919
Other nursery products	14	1,000 pots	(NA)	507

NA Not available.

Source: Hawaii Agricultural Reporting Service, "Flower and Nursery Industry Tops \$20 Million in 1979," Hawaii Flowers & Nursery Products, Annual Summary (May 21, 1980).

Table 396.-- MARKET SUPPLY OF SPECIFIED FOODS: 1969 TO 1979

Commodity and year	Total market supply <u>1/</u>			Per capita market supply <u>2/</u>	Percent from Hawaii
	Total	Inship-ment	Hawaii		
Fresh market fruits					
1969	46,727	27,532	19,195	60.0	41.1
1978	75,044	53,805	21,239	75.8	28.3
1979	75,184	58,295	16,889	74.2	29.0
Fresh market melons:					
1969	8,053	5,978	2,075	10.3	25.8
1978	12,376	10,506	1,870	12.5	15.1
1979	14,944	13,814	1,130	14.8	7.6
Fresh market vegetables:					
1969	105,659	61,581	44,078	135.7	41.7
1978	165,449	97,119	68,330	167.0	41.3
1979	174,235	105,155	69,080	172.0	39.6
Beef and veal: <u>3/</u>					
1969	67,458	36,094	<u>4/</u> 31,364	86.6	46.5
1978	91,931	58,387	<u>4/</u> 33,544	92.8	36.5
1979	90,525	61,434	<u>4/</u> 29,091	89.4	32.1
Pork: <u>3/</u>					
1969	25,220	16,780	8,440	32.4	33.5
1978	32,427	22,576	9,851	32.7	30.4
1979	32,642	24,856	7,786	32.2	23.9
Chickens: <u>5/</u>					
1969	22,600	17,138	5,462	29.0	24.2
1978	28,483	21,697	6,786	28.8	23.8
1979	31,054	23,918	7,136	30.7	23.0
Eggs, shell:					
1969	17,155	455	16,700	22.0	97.3
1978	20,114	1,914	18,200	20.3	90.5
1979	21,001	1,901	19,100	20.7	90.9

1/ Eggs in 1,000 dozens; other foods in 1,000 pounds.

2/ Eggs in dozens; other foods in pounds. Based on de facto population.

3/ Carcass weight equivalent.

4/ Excludes slaughter cattle and calves shipped out-of-State.

5/ Ready-to-cook weight.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 397.-- GROSS AND NET INCOME FROM FARMING AND FARM PRODUCTION EXPENSE:
1976 TO 1978

(In millions of dollars)

Subject	1976	1977	1978
Gross farm income, total	356.7	380.6	419.4
Cash receipts from farm marketings	329.2	325.2	380.4
Government payments <u>1/</u>	0.4	24.7	4.9
Non-money income	12.8	14.3	16.3
Other farm income	14.2	16.4	17.8
Farm production expenses, total	273.7	287.6	307.1
Current farm operating expenses	235.4	244.9	258.2
Hired labor	112.0	118.3	124.2
Other current expenses <u>2/</u>	123.4	126.6	134.1
Other expenses <u>3/</u>	38.3	42.7	48.8
Net change in farm inventories	-1.1	-1.2	-5.7
Net income after inventory adjustment	81.9	91.8	106.6

1/ Excludes amounts paid but allocated to the raw sugar processing and refining segment of the sugar industry (\$24.0 million in 1977 and \$4.0 million in 1978).

2/ Feed, livestock, seed, fertilizer and lime, repairs and operation of capital items, and miscellaneous current operating expenses.

3/ Depreciation and other consumption of farm labor, taxes on farm property, interest on farm mortgage debt, and net rent to nonoperator landlords.

Source: U.S. Department of Agriculture estimates cited in the Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1979, p. 12.

Table 398.-- AGRICULTURAL PRODUCTIVITY RATING AND ESTIMATED ANNUAL INLAND SOIL LOSS

Subject	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Agricultural productivity rating (1,000 acres)						
Total	2,584.3	466.4	89.3	167.1	388.9	354.1
Very good	-	32.7	-	0.7	24.6	10.0
Good	46.2	20.1	-	-	32.3	30.3
Moderate	214.3	38.5	4.8	4.5	22.0	28.5
Poor	573.1	99.8	20.2	40.4	19.7	30.5
Very poor	1,738.2	268.7	63.8	120.3	228.2	249.3
Not rated <u>1/</u>	12.5	6.7	0.4	1.2	62.1	5.5
Inland soil loss (1,000 tons per year)						
Total erosion	2,287	2,357	1,242	2,373	1,355	2,493
Sediment yield <u>2/</u>	502	310	187	357	330	429

1/ Quarry, water, or urban.

2/ Total erosion minus amount deposited enroute to the point of measurement.

Source: Arthur Y. Ching and Tamotsu Sahara, Land Use and Productivity Rating, State of Hawaii, 1968, L.S.B. Circular No. 15 (University of Hawaii, Land Study Bureau, July 1969), pp. 20-21; State of Hawaii Water Resources Regional Study, Hawaii Water Resources Plan (January 1979), p. 94.