

## 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 4,300 farms in Hawaii as of 1980, with a total area of 2.0 million acres. Both figures have declined during the past decade. The value of crop sales in 1980 was \$552 million, or 221 percent higher than the total for 1970. Livestock sales amounted to \$81 million, or 95 percent more than the 1970 level. Combined crop and livestock sales ranged from \$94 million in Kauai County to \$215 million on the Big Island. Net farm income in 1979 was \$157 million. Major crops in 1980 were sugar (\$385 million in sales, up 248 percent over the decade), pineapple (\$77 million, or 94 percent over the 1970 total), flowers and nursery products (\$27 million, or 549 percent more than in 1970), and macadamia nuts (\$24 million, up 743 percent). Diversified agriculture, defined as all crops other than sugar and pineapple, rose from \$22 million in 1970 to \$91 million in 1980, or approximately 313 percent. About 640 farms sold \$27 million of flowers and nursery products in 1980, chiefly anthuriums, potted foliage, and orchids. Important products of livestock farms as of 1980 included cattle (\$28 million in sales), milk (\$27 million), and eggs (\$14 million). Coffee sales have dropped sharply during the past decade. In 1980, Hawaii produced 40 percent of the fresh market vegetables consumed locally, 23 percent of the fresh market fruits, 30 percent of the beef and veal, 24 percent of the chickens, none of the rice, and 89 percent of the eggs.

Aquaculture has been growing in importance in recent years. Freshwater prawn production amounted to 300,000 pounds in 1980, with a value of more than \$1 million. Only six 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. Authorities confiscated \$19 million worth of marijuana in 1980, but the proportion escaping detection is unknown.

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: 1980.

Table 433.-- AGRICULTURAL SUMMARY: 1964 TO 1978

Subject	1964	1969	1974	1978
Number of farms by size				
Total .....	4,864	3,896	3,020	4,310
Less than 10 acres .....	2,603	2,024	1,633	2,527
10 to 49 acres .....	1,594	1,281	872	1,211
50 to 179 acres .....	359	336	271	296
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	74
Farm acreage				
Total acreage (1,000) .....	2,354	2,058	2,119	1,988
Per farm (acres) .....	484	528	702	461
Total cropland (1,000) .....	370.9	379.8	351.6	333.3
Harvested cropland (1,000) .....	167.5	178.7	151.4	158.6
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	34.5
Regular hired workers <sup>1/</sup> .....	12,375	13,200	11,497	11,380
Average value of land and buildings:				
Per farm (\$1,000) .....	98.9	156.8	340.6	413.9
Per acre (dollars) .....	205	297	485	897
Market value of agricultural products sold:				
Total (\$1,000,000) .....	187.5	285.6	609.8	419.3
Per farm (\$1,000) .....	38.5	73.3	201.9	97.3
Percent of farms over \$2,500 .....	46.5	55.6	67.4	67.6

<sup>1/</sup> Working 150 days or more on all farms.

<sup>2/</sup> 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, Vol. I, Part 11 (1981), pp. 1, 2, 5, and 6.

Table 434.-- AGRICULTURAL SUMMARY, BY COUNTIES: 1978

Subject	State total	Hawaii	Hono- lulu	Kauai	Maui
<b>Number of farms by size</b>					
Total .....	4,310	2,266	1,053	369	622
Less than 10 acres .....	2,527	1,213	822	188	304
10 to 49 acres .....	1,211	745	161	114	191
50 to 179 acres .....	296	155	36	41	64
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 .....	74	39	7	10	18
<b>Farm acreage</b>					
Total acreage (1,000) .....	1,988	1,154	126	286	422
Per farm (acres) .....	461	509	119	776	679
Total crop land (1,000) .....	333.3	129.5	(D)	(D)	96.6
Harvested cropland (1,000) ...	158.6	58.7	30.5	24.9	44.5
Irrigated land (1,000) .....	159.3	21.9	38.4	36.8	62.2
<b>Other characteristics</b>					
Average age of farm operators (years) .....	52.7	52.8	53.1	53.1	51.3
Tenant operators (percent of total) .....	34.5	33.9	40.3	38.5	24.4
Regular hired workers <sup>1/</sup> .....	11,380	2,961	2,758	2,095	3,566
Average value of land and buildings:					
Per farm (\$1,000) .....	413.9	405.5	300.6	498.7	586.4
Per acre (dollars) .....	897	796	2,519	643	864
Market value of agricultural products sold:					
Total (\$1,000) .....	419,251	148,399	118,608	48,679	103,564
Per farm (\$1,000) .....	97.3	65.5	112.6	131.9	166.5
Percent of farms over \$2,500	67.6	68.6	71.5	59.9	61.7

D Data withheld to avoid disclosing information for individual farms.

<sup>1/</sup> Working 150 days or more on all farms.

Source: U.S. Bureau of the Census, 1978 Census of Agriculture, Vol. I, Part 11 (1981), pp. 107, 125, 126, 130, 131, 135, 136, 140, 141.

Table 435.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES: 1970 TO 1980

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 (un-processed cane)	Pine-apples (fresh equivalent)	Other crops	Live-stock
1970 ..	4,500	2,300	213,667	110,600	39,500	21,919	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 ..	3,800	2,200	575,432	442,300	40,259	34,964	57,909
1975 ..	3,900	2,150	377,575	237,000	41,616	40,688	58,271
1976 ..	4,000	2,100	327,820	164,700	52,983	47,815	62,322
1977 ..	4,100	2,050	325,182	144,200	62,249	53,715	65,018
1978 ..	4,300	1,980	380,655	182,700	63,090	62,308	72,557
1979 ..	4,300	1,980	441,252	217,600	69,409	75,779	78,464
1980 ..	4,300	1,970	633,570	385,100	76,596	90,625	81,249

1/ Data for 1974 and later years based on revised form definition.

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 436.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1970 TO 1980

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:							
1970 .....	4,500	2,300	213,667	110,600	39,500	21,919	41,648
1979 .....	4,300	1,980	441,252	217,600	69,409	75,779	78,464
1980 .....	4,300	1,970	633,570	385,100	76,596	90,625	81,249
Hawaii Co.:							
1970 .....	2,500	1,340	65,559	41,000	-	11,265	13,294
1979 .....	2,500	1,150	145,144	79,500	-	44,354	21,290
1980 .....	2,500	1,150	215,486	137,500	-	55,540	22,446
Maui Co.:							
1970 .....	650	526	59,499	26,600	25,700	3,139	4,060
1979 .....	500	425	106,470	52,200	32,936	9,788	11,546
1980 .....	500	420	159,293	100,800	36,404	12,016	10,073
Oahu:							
1970 .....	930	152	61,000	20,300	12,500	5,820	22,380
1979 .....	1,000	125	132,449	38,200	36,473	16,524	41,252
1980 .....	1,000	125	164,905	63,200	40,192	18,504	43,009
Kauai Co.:							
1970 .....	420	282	27,609	22,700	1,300	1,695	1,914
1979 .....	300	280	57,189	47,700	-	5,113	4,376
1980 .....	300	275	93,886	83,600	-	4,565	5,721

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 437.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1970 TO 1980

Subject	1970	1979	1980
Acreage in crop (1,000 acres):			
Sugarcane .....	239.0	218.8	217.7
Pineapples (land used for pineapple) .....	60.9	44.0	43.0
Vegetables and melons (harvested acreage) ..	3.2	4.3	3.9
Fruits, excluding pineapples .....	3.3	5.3	5.2
Coffee .....	3.9	2.1	1.9
Macadamia nuts .....	8.7	11.4	13.4
Miscellaneous crops .....	3.6	4.9	4.9
Number of crop farms:			
Sugar .....	717	400	330
Pineapples .....	47	15	18
Vegetables and melons .....	488	535	585
Fruits (excluding pineapples) .....	409	683	692
Coffee .....	750	700	650
Macadamia nuts .....	287	466	466
Taro .....	132	121	122
Flowers and nursery products .....	460	580	640
Volume of crop marketings:			
Sugar, unprocessed cane (1,000 tons) .....	10,457	9,632	9,214
Pineapples, fresh equivalent (1,000 tons) ..	954	681	657
Vegetables and melons (1,000 lb.) .....	54,798	70,240	70,680
Fruits, excluding pineapples (1,000 lb.) ...	36,241	56,600	67,800
Coffee, parchment (1,000 lb.) .....	4,300	2,190	1,450
Macadamia nuts, in shell (1,000 lb.) .....	13,216	26,660	33,390
Taro (1,000 lb.) .....	8,555	6,640	6,400
Value of crop sales (\$1,000):			
Sugar (unprocessed cane) .....	110,600	217,600	385,100
Pineapples (fresh equivalent) .....	39,500	69,409	76,596
Vegetables and melons .....	6,889	18,388	18,501
Fruits (excluding pineapples) .....	3,488	11,956	12,983
Coffee (parchment) .....	1,449	3,132	2,175
Macadamia nuts (in shell) .....	2,868	16,769	24,174
Taro .....	736	1,089	1,280
Field crops (not estimated separately) .....	2,084	3,557	3,971
Flowers and nursery products .....	4,225	20,778	27,441
Forest products .....	180	110	100

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

Table 438.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1980

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane .....	91.2	47.4	33.1	46.0
Pineapples (land used for pineapple) .....	-	31.5	11.5	1/
Vegetables and melons (harvested acreage)	1.5	1.2	1.1	0.1
Fruits, excluding pineapples .....	3.6	0.1	0.8	0.7
Coffee .....	1.9	-	-	-
Macadamia nuts .....	12.2	(D)	(D)	(D)
Miscellaneous crops .....	1.0	1.9	1.4	0.6
Number of crop farms:				
Sugar .....	319	3	3	5
Pineapples .....	-	13	2	3
Vegetables and melons .....	213	75	246	51
Fruits (excluding pineapples) .....	410	38	166	78
Coffee .....	650	-	-	-
Macadamia nuts .....	460	2	1	3
Taro .....	41	29	2	50
Flowers and nursery products .....	300	95	220	25
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons) .....	3,718	2,278	1,345	1,873
Pineapples, fresh equivalent (1,000 tons)	-	479	178	(1/)
Vegetables and melons (1,000 lb.) .....	31,290	23,980	13,950	1,460
Fruits, excluding pineapples (1,000 lb.) .	51,570	2,200	5,950	8,080
Coffee, parchment (1,000 lb.) .....	1,450	-	-	-
Macadamia nuts, in shell (1,000 lb.) .....	33,270	(D)	(D)	(D)
Taro (1,000 lb.) .....	700	(D)	(D)	4,550
Value of crop sales (\$1,000):				
Sugar (unprocessed cane) .....	137,500	100,800	63,200	83,600
Pineapples (fresh equivalent) .....	-	36,404	40,192	-
Vegetables and melons .....	7,274	5,276	5,414	537
Fruits (excluding pineapples) .....	9,619	384	1,444	1,536
Coffee (parchment) .....	2,175	-	-	-
Macadamia nuts (in shell) .....	24,071	(D)	(D)	(D)
Taro .....	162	(D)	(D)	865
Field crops (not estimated separately) ...	60	1,774	1,183	954
Flowers and nursery products .....	12,089	4,342	10,395	615
Forest products .....	90	(NA)	(NA)	(NA)

D Withheld to avoid disclosure of individual operations.

NA Not available.

1/ Less than 500 acres.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1980.

Table 439.-- VEGETABLES, FRUITS, COFFEE, NUTS, AND TARO: 1980

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 .....	130	8.5	1,100	73.8	812
Cabbage, Chinese .....	350	19.7	6,900	14.5	1,001
Cabbage, Head .....	460	29.5	13,600	12.8	1,741
Cucumbers .....	210	21.9	4,600	25.5	1,173
Daikon .....	200	16.9	3,370	15.9	536
Eggplant .....	60	25.7	1,540	38.1	587
Ginger root .....	40	40.8	1,610	67.7	1,090
Lettuce (head, semi-head)	660	15.0	9,900	19.7	1,950
Onions, Dry .....	80	14.4	1,150	60.8	699
Onions, Green .....	90	10.0	900	72.5	652
Tomatoes .....	270	28.5	7,700	31.0	2,387
Watercress .....	32	...	1,420	48.3	686
Fruits:					
Bananas .....	580	7.9	4,600	23.9	1,099
Guavas .....	615	...	7,520	11.5	865
Papayas .....	1,950	24.9	48,916	20.4	9,979
Macadamia nuts (1980-1981)	10,400	3.2	33,390	72.4	24,174
Coffee (1980-1981) .....	1,700	0.9	1,450	150.0	2,175
Taro .....	320	...	6,400	20.0	1,280

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, 1980 pp. 36-66.



Table 440.-- LIVESTOCK INVENTORY: 1970, 1979, AND 1980

[In thousands.]

Type of livestock	1970	1979	1980
All cattle and calves <u>1/</u> .....	249	213	220
Milk cows <u>1/</u> .....	13	13	13
Hogs and pigs <u>2/</u> .....	58	53	57
Chickens (excluding broilers) <u>2/</u> ..	1,290	1,306	1,314
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 441.-- LIVESTOCK INVENTORY, BY GEOGRAPHIC AREAS: 1980-1981

[In thousands.]

Type of livestock	Hawaii County	Maui County	Oahu	Kauai County
All cattle and calves <u>1/</u> .....	127.2	45.9	28.5	18.4
Milk cows <u>1/</u> .....	1.6	1.2	9.9	0.5
Hogs and pigs <u>2/</u> .....	6.5	10.7	35.4	4.5
Chickens (excluding broilers) <u>2/</u> .	(D)	(D)	1,118	(D)

D Withheld to avoid disclosure of individual operations.

1/ As of January 1, 1981.

2/ As of December 1, 1980.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1980, pp. 72, 81, and 86.

Table 442.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS,  
AND VALUE OF LIVESTOCK SALES: 1970 TO 1980

Subject	1970	1979	1980
Number of livestock operations, Dec. 31:			
Cattle <u>1/</u> .....	1,100	800	800
Hogs .....	570	650	650
Milk .....	110	70	70
Eggs .....	160	60	60
Broilers .....	31	10	10
Honey .....	24	25	27
Volume of livestock marketings:			
Beef (dressed weight; 1,000 lb.) <u>2/</u> .....	32,210	29,325	28,809
Pork (dressed weight; 1,000 lb.) .....	7,903	7,785	8,012
Milk (million lb.) .....	135.3	147.3	149.4
Eggs (million) .....	196	229	222
Broilers and chickens (1,000 lb. <u>3/</u> ) .....	5,688	7,136	7,890
Honey (1,000 lb.) .....	215	910	861
Value of livestock sales (\$1,000):			
Cattle <u>4/</u> .....	13,901	28,356	28,074
Hogs <u>4/</u> .....	4,099	7,027	7,457
Milk .....	12,960	24,894	27,071
Eggs .....	8,395	14,007	14,005
Broilers and chickens .....	2,202	3,655	4,181
Other .....	91	525	461

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 443.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1980

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle <u>1/</u> .....	360	210	80	150
Hogs .....	80	110	350	110
Milk .....	24	17	24	5
Eggs .....	23	5	26	6
Broilers .....	-	-	8	2
Honey .....	3	5	5	14
Volume of livestock marketings:				
Beef (dressed weight; 1,000 lb.) <u>2/</u> .....	18,201	5,838	1,605	3,165
Pork (dressed weight; 1,000 lb.) .....	929	1,852	4,583	648
Milk (million lb.) .....	(D)	(D)	119.4	(D)
Eggs (million) .....	(D)	(D)	192.1	(D)
Broilers and chickens (1,000 lb. <u>3/</u> ) .....	(D)	(D)	7,550	(D)
Honey (1,000 lb.) .....	(D)	(D)	(D)	(D)
Value of livestock sales (\$1,000):				
Cattle <u>4/</u> .....	17,973	5,580	1,403	3,118
Hogs <u>4/</u> .....	892	1,865	4,026	674
Milk .....	(D)	(D)	21,719	(D)
Eggs .....	(D)	(D)	11,862	(D)
Broilers and chickens .....	(D)	(D)	3,988	(D)
Other .....	312	104	11	34

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 1980.

Table 444.-- FLOWERS AND NURSERY PRODUCTS, 1970 TO 1980, AND BY ISLAND, 1980

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:							
1970 .....	459	807	116	5,177	144	542	4,225
1979 .....	580	1,312	1,625	16,950	116	770	20,778
1980 .....	640	1,477	1,753	19,567	130	858	27,441
Islands, 1980:							
Hawaii ...	300	807	870	15,352	119	316	12,089
Kauai ....	25	22	32	69	4	16	615
Maui .....	95	274	200	652	-	254	4,342
Oahu .....	220	374	651	3,494	7	272	10,395

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

Table 445.-- FLOWERS AND NURSERY PRODUCTS, BY KIND OF FLOWER: 1980

Kind of flower	Number of farms	Number of flowers sold		Wholesale value (\$1,000)
		Unit	Number	
<b>Cut flowers :</b>				
Anthuriums .....	228	1,000 dozens	2,532	6,878
Birds of paradise .....	27	1,000 dozens	27	70
Carnations .....	15	1,000 dozens	54	102
Chrysanthemums, pompon .....	15	1,000 bunches	364	343
Chrysanthemums, other .....	4	1,000 dozens	7	27
Gingers .....	35	(NA)	(NA)	253
Proteas, pincushion .....	12	1,000 stems	703	181
Proteas, other .....	13	1,000 stems	211	113
Roses .....	6	1,000 dozens	339	798
Others .....	49	(NA)	(NA)	499
<b>Cut orchids:</b>				
Cattleyas .....	30	1,000 flowers	88	70
Cymbidiums .....	17	1,000 flowers	448	150
Dendrobiums, sprays .....	41	1,000 dozens	70	336
Others .....	19	(NA)	(NA)	16
<b>Lei flowers:</b>				
Carnations .....	25	Million flowers	36.6	1,169
Vanda Miss Joaquim .....	35	Million flowers	38.8	573
Plumerias .....	21	Million flowers	23.7	440
Tuberose .....	5	Million flowers	32.0	684
Dendrobiums .....	21	Million flowers	6.6	175
Pikake .....	16	1,000 strands	147	169
<b>Cut foliage:</b>				
Ti leaves .....	62	Million leaves	14.5	332
Other greens .....	34	(NA)	(NA)	242
<b>Potted plants:</b>				
Anthuriums .....	24	1,000 pots	129	230
Chrysanthemums .....	11	1,000 pots	192	607
Orchids .....	142	1,000 pots	514	2,227
Poinsettias .....	30	1,000 pots	134	410
Potted foliage .....	95	(NA)	(NA)	4,943
Other potted plants .....	70	(NA)	(NA)	1,340
Ornamentals and trees .....	65	(NA)	(NA)	1,181
Unfinished flower and foliage stock ..	36	(NA)	(NA)	1,536
Other nursery products .....	71	(NA)	(NA)	1,347

NA Not available.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1980.

Table 446.-- MARKET SUPPLY OF SPECIFIED FOODS: 1970 TO 1980

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					
1970 .....	52,770	31,820	20,950	65.7	39.7
1979 .....	76,004	58,295	17,709	73.1	23.3
1980 .....	80,586	61,926	18,660	76.0	23.2
Fresh market melons:					
1970 .....	10,227	7,397	2,830	12.7	27.7
1979 .....	14,944	13,814	1,130	14.4	7.6
1980 .....	13,244	11,894	1,350	12.5	10.2
Fresh market vegetables:					
1970 .....	113,258	66,036	47,222	141.1	41.7
1979 .....	174,235	105,155	69,080	167.6	39.6
1980 .....	174,129	105,039	69,090	164.3	39.7
Beef and veal: <u>3/</u>					
1970 .....	67,522	35,312	<u>4/</u> 32,210	84.1	47.7
1979 .....	90,525	61,200	<u>4/</u> 29,325	87.1	32.4
1980 .....	94,359	65,550	<u>4/</u> 28,809	89.0	30.5
Pork: <u>3/</u>					
1970 .....	23,106	15,203	7,903	28.8	34.2
1979 .....	32,642	24,857	7,785	31.4	23.8
1980 .....	34,830	26,818	8,012	32.9	23.0
Chickens: <u>5/</u>					
1970 .....	22,902	17,214	5,688	28.5	24.8
1979 .....	31,054	23,918	7,136	29.9	23.0
1980 .....	33,345	25,455	7,890	31.5	23.7
Eggs:					
1970 .....	17,124	824	16,300	21.3	95.2
1979 .....	21,056	1,956	19,100	20.3	90.7
1980 .....	20,871	2,371	18,500	19.7	88.6

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 447.-- GROSS AND NET INCOME FROM FARMING AND FARM PRODUCTION EXPENSE:  
1977 TO 1979

[In millions of dollars.]

Subject	1977	1978	1979
Gross farm income, total .....	380.1	419.4	461.8
Cash receipts from farm marketings .....	325.5	380.5	418.9
Government payments .....	<u>1/</u> 24.7	<u>1/</u> 4.9	0.7
Non-money income .....	13.9	16.5	20.2
Other farm income .....	16.0	17.5	21.9
Farm production expenses, total .....	241.4	256.5	308.3
Current farm operating expenses .....	208.0	219.1	263.9
Hired labor .....	108.5	112.7	132.7
Other current expenses <u>2/</u> .....	99.6	106.3	131.2
Other expenses <u>3/</u> .....	33.4	37.5	44.4
Net change in farm inventories .....	-1.2	-5.7	-0.9
Net income after inventory adjustment .....	137.5	157.2	152.6

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 1980, p. 12.

Table 448.-- FARM FINANCES: 1977 TO 1980

[Millions of dollars.]

Subject	1977	1978	1979	1980
Farm assets, Jan. 1 .....	1,770	1,949	2,415	2,998
Change during year .....	179	466	583	...
Farm debt, Jan. 1 .....	113	127	136	158
Change during year .....	14	9	22	...
Farm equity, Jan. 1 .....	1,657	1,822	2,279	2,840
Change during year .....	165	457	561	...
Cash receipts, total .....	350.2	381.3	419.6	...
Farm marketings .....	325.5	380.5	418.9	...
Livestock and products .....	64.9	72.5	78.2	...
Crops .....	260.5	307.9	340.6	...
Government payments .....	24.7	0.8	0.7	...
Value of home consumption <u>1/</u> ...	1.1	2.0	1.6	...

1/ Value of farm products consumed directly in farm households where produced. Limited to livestock and products; not available for crops.

Source: U.S. Department of Agriculture, Economics and Statistics Service, Economic Indicators of the Farm Sector: Income and Balance Sheet Statistics, 1979 (Statistical Bulletin No. 650, December 1980), pp. 22-25, 30-32, and 37.



Table 449.-- AGRICULTURAL PRODUCTIVITY RATING AND ESTIMATED ANNUAL  
INLAND SOIL LOSS FOR MAJOR ISLANDS

Subject	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Agricultural pro- ductivity 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.

Table 450.-- FRESHWATER PRAWN FARMS, BY  
TYPE OF OPERATION AND ISLAND:  
DECEMBER 31, 1979 AND 1980

Operation and island	1979	1980
All prawn farms .....	19	24
Type of operation:		
Full-time .....	7	8
Part-time .....	12	16
Island:		
Hawaii .....	-	4
Molokai .....	1	1
Oahu .....	17	16
Kauai .....	1	3

Source follows next table.

Table 451.-- FRESHWATER PRAWN ACREAGE, PRODUCTION, AND VALUE:  
1970 TO 1980

Year	Acres of prawn ponds <sup>1/</sup>	Production (1,000 lb.)	Value (\$1,000)	Wholesale price per pound (dollars)
1970 <sup>2/</sup> .....	1.5	...	...	...
1971 <sup>2/</sup> .....	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 <sup>3/</sup> .....	275	205.0	787.3	3.84
1980 .....	310	300.0	1,125.0	3.75

<sup>1/</sup> As of December 31.

<sup>2/</sup> Data not available for production and value.

<sup>3/</sup> Revised July 27, 1981.

Source: Hawaii State Department of Planning and Economic Development, Aquaculture Development Program, The Hawaiian Prawn Industry, A Profile (December 1979), and Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.